Additional copies of this Undergraduate Catalog may be purchased for $7.00 in the University Bookstore or by mail for $10.00 (check payable to UCF Bookstore) from: Catalog, UCF Bookstore, Orlando, Florida 32816-2444. A current Undergraduate Catalog is issued to each new degree-seeking student during Orientation at the time of the first registration. The succeeding edition is available for purchase each year after June 1.

Compiled and edited by the University of Central Florida Registrar’s Office, Unit of Academic Development and Retention, Division of Student Development and Enrollment Services. Pre-press production & supervision by M.R. Zinssar, Assistant Director, Information and Publications, University of Central Florida Registrar’s Office. New Catalog policies and requirements take effect with the Summer term.

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The UCF Creed

Integrity, scholarship, community, creativity and excellence are the core values that guide our conduct, performance, and decisions. These values comprise the guiding principles that direct the actions of the University, its students, and its employees.

**Integrity**
I will practice and defend academic and personal honesty.

**Scholarship**
I will cherish and honor learning as a fundamental purpose of my membership in the UCF community.

**Community**
I will promote an open and supportive campus environment by respecting the rights and contributions of every individual.

**Creativity**
I will use my talents to enrich the human experience.

**Excellence**
I will strive toward the highest standards of performance in any endeavor I undertake.

PEGASUS was the winged horse of the muses in Greek Mythology. It carried their hopes, their aspirations, and their poetry into the skies. PEGASUS is as futuristic as tomorrow’s space exploration in our solar system and into the universe beyond. The seal also bridges the gap between the humanities and space technology.

UCF Stands For Opportunity
Dear UCF Students and Prospective Students:

Welcome to the University of Central Florida. I hope you share my excitement about what the academic year promises. How well it turns out for you will depend primarily on the effort you invest in your own intellectual and professional development. Invest wisely, and be assured that UCF faculty and staff pledge their best efforts in helping you attain your educational goals.

As you pursue your studies, please remember that a college education is not totally academic. It extends beyond the classroom, laboratory, or studio to campus clubs and organizations, concerts, plays, speeches, and athletic events. I hope that you will become involved in UCF campus life and that you will also make some commitment to serving your community. Besides being a force for campus and community improvement, the effort can be educationally rich and personally fulfilling.

Finally, I hope that you will take pride in your university. Like the Pegasus, our symbol, UCF is on the ascent. In over forty years of service, we have risen from promise to prominence: our students excel in national competitions and organizations; members of our faculty are known internationally for their research and teaching; a number of our men's and women's athletic teams are conference champions; and our football team competes in Division I-A. We have much to be proud of.

You have my best wishes for success and my assurance that UCF faculty and staff are committed to helping you complete your degree so that you can join a proud group of over 135,000 alumni.

Cordially yours,

John C. Hitt
President
# Table of Contents

University Administration ........................................ 6
Academic Calendars ............................................. 8

## University Notices
- Administrative Procedures Act Policy Statement ........... 10
- Sexual Harassment Policy ..................................... 10
- Drug-Free Workplace/Drug-Free Schools Policy Statement .. 10
- Campus Alcoholic Beverages Policy .......................... 10
- Academic Behavior Standards .................................. 11
- Student Use of Technology ..................................... 11
- Student Responsibility for University Communication ..... 11
- Complaint Policy .............................................. 11

## University of Central Florida
- Accreditation .................................................. 12
- Three University Campuses .................................... 12
- UCF Regional Campuses ....................................... 12
- Central Florida Research Park ................................ 15
- Endowed Chairs ............................................... 15
- University Ombudsman ........................................ 16
- Office of Undergraduate Studies ............................... 16
- International Services Center ................................ 16
- UCF Public Safety and Police ................................. 16
- Information Technologies and Resources ..................... 17
- Intercollegiate Athletics ....................................... 18
- Graduation Rate Disclosure ................................... 18
- UCF Arena ..................................................... 18
- University Bookstore ......................................... 18
- Transit Services ............................................... 18
- Orlando - UCF Shakespeare Festival .......................... 18
- UCF Alumni Association ....................................... 18
- UCF Foundation, Incorporated ................................. 18

## Division of Marketing, Communications, and Admissions
- Undergraduate Admissions .................................... 19

## Division of Student Development and Enrollment Services
- Academic Development and Retention ......................... 20
- Administrative Services ....................................... 20
- Assessment and Planning ...................................... 23
- Campus Life .................................................... 24

## Undergraduate Admissions
- Campus Visit Experience ...................................... 27
- Application for Admission ..................................... 28
- Limited Access Program ...................................... 28
- Orientation ..................................................... 28
- Application Categories ........................................ 28
- International Applicants ...................................... 30
- Non-Academic Admission Clearances ........................ 31
- Transfer Credit ................................................ 31
- Baccalaureate Honors ......................................... 31

## Financial Information
- Student Financial Assistance ................................. 32
- Student Eligibility ............................................. 32
- Application Priority Deadline Date ........................... 32
- Application Procedures ........................................ 32
- Specific Eligibility Requirements and Conditions ......... 32
- School Costs .................................................... 33
- Financial Aid Programs Available at UCF ................. 33
- Award Notification ............................................. 33
- Deferrals of Tuition and Fee .................................. 33
- Disbursements .................................................. 34
- Satisfactory Academic Progress ............................... 34
- Transfer Students ............................................. 35
- Independent Students ........................................ 35
- Dual Enrollment ............................................... 35
- Over Awards .................................................... 35
- Refund and Return of Title IV Funds ......................... 35
- Professional Judgment ........................................ 35
- Student Rights and Responsibilities ......................... 35

## Student Accounts Office
- Late Registration Fee Standards ............................. 35
- Late Registration Fee .......................................... 36
- Student Financial Responsibility Statement ............... 36
- Late Registration Fee and Late Payment Fee Appeals .... 35
- Schedule of Fees .............................................. 36
- Past-due Accounts ............................................. 36
- Acceptable Forms of Payment ................................. 36
- Payment Procedures .......................................... 36
- Refund of Fees ................................................. 37

- Tuition Waivers ............................................... 37
- Florida Residency for Tuition Purposes ..................... 38
- Residency Reclassification ................................... 39

## Academic Advising
- Undergraduate Degree Requirements ....................... 46
- Transfer Services ............................................. 43

## Academic Regulations and Procedures
- Undergraduate Degree Requirements ........................ 46
- Transfer Services ............................................. 43
- Academic Advising ............................................ 40
- Undergraduate Degree Requirements ........................ 46
- Transfer Services ............................................. 43
- Academic Advising ............................................ 40
- Undergraduate Degree Requirements ........................ 46
- Transfer Services ............................................. 43
- Academic Advising ............................................ 40

## Academic Regulations and Procedures
- Undergraduate Degree Requirements ........................ 46
- Transfer Services ............................................. 43
- Academic Advising ............................................ 40
- Undergraduate Degree Requirements ........................ 46
- Transfer Services ............................................. 43
- Academic Advising ............................................ 40

- Undergraduate Degree Requirements ........................ 46
- Transfer Services ............................................. 43
- Academic Advising ............................................ 40

- Undergraduate Degree Requirements ........................ 46
- Transfer Services ............................................. 43
- Academic Advising ............................................ 40

- Undergraduate Degree Requirements ........................ 46
- Transfer Services ............................................. 43
- Academic Advising ............................................ 40

- Undergraduate Degree Requirements ........................ 46
- Transfer Services ............................................. 43
- Academic Advising ............................................ 40

- Undergraduate Degree Requirements ........................ 46
- Transfer Services ............................................. 43
- Academic Advising ............................................ 40

- Undergraduate Degree Requirements ........................ 46
- Transfer Services ............................................. 43
- Academic Advising ............................................ 40
**Table of Contents**

**College of Health and Public Affairs** .......................................................... 96  
**College of Optics and Photonics** ................................................................. 100  
**College of Sciences** ..................................................................................... 101  
**Rosen College of Hospitality Management** ................................................ 104  
**Office of Undergraduate Studies** ................................................................. 105  
**UCF Degree Programs** ................................................................................ 106  
  - Accounting ................................................................................................. 107  
  - Actuarial Science ........................................................................................ 108  
  - Advertising/Public Relations ...................................................................... 110  
  - Aerospace Engineering .............................................................................. 111  
  - Anthropology .............................................................................................. 112  
  - Art ............................................................................................................... 113  
  - Art-Animation Track .................................................................................. 115  
  - Art-History Track ....................................................................................... 116  
  - Art-Studio Track ......................................................................................... 117  
  - Art Education .............................................................................................. 118  
  - Biology ........................................................................................................ 119  
  - Biology-Preprofessional .......................................................................... 121  
  - Business Administration .......................................................................... 124  
  - Cardiopulmonary Sciences ....................................................................... 125  
  - Civil Engineering ....................................................................................... 126  
  - Civil Engineering—Construction Engineering Concentration .............. 128  
  - Communicative Sciences and Disorders .................................................... 129  
  - Computer Engineering ............................................................................... 130  
  - Computer Engineering—Software Engineering Concentration .......... 132  
  - Computer Science ..................................................................................... 133  
  - Criminal Justice .......................................................................................... 134  
  - Digital Media ............................................................................................. 135  
  - Early Childhood Education ....................................................................... 136  
  - Economics (B.A. and B.S.B.A.) ................................................................. 138, 139  
  - Electrical Engineering ............................................................................. 141  
  - Electrical Engineering—Microelectronics Concentration .................... 142  
  - Electrical Engineering—Wireless Communication Concentration ....... 143  
  - Electrical Engineering Technology—Computer Systems Concentration 145  
  - Electrical Engineering Technology—Electrical Systems Concentration  146  
  - Electrical Engineering Technology—Photonics Concentration ............. 147  
  - Elementary Education ............................................................................... 148  
  - Engineering Technology—Design Concentration .................................... 149  
  - Engineering Technology—Operations Concentration .............................. 150  
  - Engineering Technology—Space Systems Concentration ...................... 152  
  - English—Creative Writing ....................................................................... 153  
  - English Language Arts Education ............................................................. 154  
  - English—Literature .................................................................................... 155  
  - English—Technical Writing ...................................................................... 157  
  - Environmental Engineering ...................................................................... 158  
  - Event Management .................................................................................... 159  
  - Exceptional Student Education ................................................................. 160  
  - Film—B.F.A. ............................................................................................... 161  
  - Film-Cinema Studies Track ...................................................................... 162  
  - Film—World Cinemas Track ..................................................................... 163  
  - Finance ........................................................................................................ 164  
  - Foreign Language Education—French ....................................................... 165  
  - Foreign Language Education—Spanish ...................................................... 167  
  - Forensic Science—Analysis Track ............................................................... 168  
  - Forensic Science—Biochemistry Track ....................................................... 169  
  - French .......................................................................................................... 171  
  - General Business ........................................................................................ 171  
  - Health Information Management .............................................................. 172  
  - Health Sciences—Athletic Training Track .................................................. 174  
  - Health Sciences—Pre-Clinical Allied Health Track .................................... 175  
  - Health Services Administration ............................................................... 176  
  - History ........................................................................................................ 178  
  - Hospitality Management .......................................................................... 179  
  - Humanities .................................................................................................. 180  
  - Humanities—Philosophy, Religion and Popular Culture ......................... 182  
  - Industrial Engineering .............................................................................. 183  
  - Information Systems Technology ............................................................... 184  
  - Information Technology ............................................................................ 185  
  - Interpersonal/Organizational Communication ......................................... 186  
  - Journalism .................................................................................................. 187  
  - Legal Studies .............................................................................................. 188  
  - Liberal Studies ............................................................................................ 189  
  - Liberal Studies—Computer Information Technology Track .................. 190  
  - Liberal Studies—Environmental Studies Track ........................................ 191  
  - Liberal Studies—Liberal Arts Track ............................................................ 192  
  - Liberal Studies—NanoScience and Nanotechnology Track .................... 193  
  - Liberal Studies—Women’s Studies Track .................................................. 194  
  - Management Information Systems ............................................................ 196  
  - Management .............................................................................................. 196  
  - Marketing ..................................................................................................... 197  
  - Mathematics—Applied Track ................................................................... 200  
  - Mathematics—Computational Track ......................................................... 201  
  - Mathematics—Engineering/Physics Track .............................................. 202  
  - Mathematics—Pure Track ......................................................................... 203  
  - Mathematics Education ........................................................................... 204  
  - Mechanical Engineering ........................................................................... 205  
  - Medical Laboratory Sciences .................................................................... 207  
  - Modern Language Combination ................................................................ 208  
  - Molecular Biology and Microbiology ....................................................... 209  
  - Molecular Biology and Microbiology, Preprofessional ........................... 211  
  - Music ........................................................................................................... 212  
  - Music Education ....................................................................................... 213  
  - Music Performance .................................................................................... 215  
  - Nursing ........................................................................................................ 217  
  - Nursing—RN to BSN Program ................................................................... 219  
  - Philosophy .................................................................................................. 220  
  - Photography ................................................................................................ 221  
  - Physical Education ..................................................................................... 222  
  - Physics ......................................................................................................... 224  
  - Political Science .......................................................................................... 225  
  - Political Science—International Studies Track ......................................... 227  
  - Political Science—Pre-Law Track ............................................................... 228  
  - Psychology (B.A. and B.S.) ........................................................................ 229  
  - Public Administration .................................................................................. 231  
  - Public Relations ........................................................................................... 235  
  - Real Estate .................................................................................................... 238  
  - Religion Studies ........................................................................................... 239  
  - Restaurant and Foodservices Management .............................................. 238  
  - Science Education—Biology ...................................................................... 239  
  - Science Education—Chemistry ................................................................. 240  
  - Science Education—Physics ..................................................................... 241  
  - Social Sciences ........................................................................................... 243  
  - Social Science Education .......................................................................... 244  
  - Social Work ................................................................................................ 245  
  - Sociology ..................................................................................................... 246  
  - Spanish ....................................................................................................... 248  
  - Sports and Fitness ....................................................................................... 249  
  - Statistics ....................................................................................................... 250  
  - Technical Education and Industry Training ............................................ 251  
  - Theatre (B.A. and B.F.A.) .......................................................................... 252, 254  
  - Theatre—Musical Theatre Track ................................................................. 256  

**Minors** ........................................................................................................... 258  
**Certificates** .................................................................................................... 283  
**Study Abroad** ................................................................................................ 288  
**Accelerated Undergraduate—Graduate Programs** ........................................ 290  
  - History ......................................................................................................... 292  
  - Liberal Studies ............................................................................................ 294  
  - Molecular Biology and Microbiology—UCF/USF ..................................... 295  
  - Nursing Second Degree B.S.N. Option ..................................................... 296  
**Articulated A.S. to B.S. Degree Programs** ..................................................... 299  
  - Applied Science .......................................................................................... 299  
  - Criminal Justice .......................................................................................... 300  
  - Electrical Engineering Technology .......................................................... 300  
  - General Business ....................................................................................... 301  
  - Hospitality Management .......................................................................... 302  
  - Information Systems Technology .............................................................. 304  
  - Liberal Studies ............................................................................................ 305  
  - Nursing ........................................................................................................ 305  
  - Radiologic Sciences .................................................................................... 306  
**Common Course Numbering System** ........................................................... 307  
**UCF Courses and Descriptions** .................................................................... 313  
**University Faculty** ........................................................................................ 413  
**Administrative Officers and Staff** ................................................................ 431  
**Honorary Degrees Awarded** ........................................................................ 434  
**UCF Glossary** ................................................................................................ 435  
**Index** ............................................................................................................. 437
### 2006 - 2007 FALL / SPRING ACADEMIC CALENDARS

<table>
<thead>
<tr>
<th>Event/Deadline</th>
<th>Fall 2006</th>
<th>Spring 2007</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application deadline for Graduate International students</td>
<td>Jan. 15</td>
<td>July 1, 2006</td>
</tr>
<tr>
<td>Application deadline for Undergraduate International students</td>
<td>March 1</td>
<td>Sept. 1, 2006</td>
</tr>
<tr>
<td>Application deadline for all New Undergraduate Freshmen Applicants</td>
<td>May 1</td>
<td>Nov. 1, 2006</td>
</tr>
<tr>
<td>Application deadline for New Undergraduate Transfers</td>
<td>July 1</td>
<td>Nov. 1, 2006</td>
</tr>
<tr>
<td>Application deadlines for readmission</td>
<td>July 15</td>
<td>Nov. 15, 2006</td>
</tr>
<tr>
<td>Graduation Application (Intent to Graduate form) due in college advising office</td>
<td>Aug. 4</td>
<td>Dec. 2, 2006</td>
</tr>
<tr>
<td>Registration and Add/Drop</td>
<td>Mar. 27 - Aug. 4</td>
<td>Mar. 27 - Jan 27, 2007</td>
</tr>
<tr>
<td>Residence halls open</td>
<td>Aug. 17 (11:00 a.m.)</td>
<td>Jan. 5 (1:00 p.m.)</td>
</tr>
<tr>
<td>Registration time for State Employees, Non-degree, Transients and Audits</td>
<td>Aug. 18</td>
<td>Jan. 5</td>
</tr>
<tr>
<td>Registration for UCF Employees, Senior Citizen Audits, and STEP (begins 3:00 p.m.)</td>
<td>Aug. 18</td>
<td>Jan. 5</td>
</tr>
<tr>
<td>Classes begin</td>
<td>Aug. 18</td>
<td>Jan. 5</td>
</tr>
<tr>
<td>Late Registration and Add/Drop</td>
<td>Aug. 21-25</td>
<td>Jan. 8-12</td>
</tr>
<tr>
<td>Last day for full refund</td>
<td>Aug. 25</td>
<td>Jan. 12</td>
</tr>
<tr>
<td>Grade Forgiveness deadline</td>
<td>Aug. 25</td>
<td>Jan. 12</td>
</tr>
<tr>
<td>Payment deadline</td>
<td>Sep. 1</td>
<td>Jan. 19</td>
</tr>
<tr>
<td>CLAST test (register by September 2/Jan. 20)</td>
<td>Oct. 7</td>
<td>Feb. 17</td>
</tr>
<tr>
<td>Withdrawal deadline</td>
<td>Oct. 13</td>
<td>Mar. 2</td>
</tr>
<tr>
<td>VA deferral payment deadline</td>
<td>Nov. 17</td>
<td>Apr. 6</td>
</tr>
<tr>
<td>Classes end; last day to remove incomplete</td>
<td>Dec. 2</td>
<td>Apr. 23</td>
</tr>
<tr>
<td>Final Examination Period</td>
<td>Dec. 4-9</td>
<td>Apr. 24 - May 30</td>
</tr>
<tr>
<td>Residence halls close (noon)</td>
<td>Dec. 10</td>
<td>May 1</td>
</tr>
<tr>
<td>Commencement</td>
<td>Dec. 11-12</td>
<td>May 3-5</td>
</tr>
<tr>
<td>Grades Due in Registrar's Office</td>
<td>Dec. 13</td>
<td>May 3</td>
</tr>
<tr>
<td>Grades Available on myUCF (begins 9:00 a.m.)</td>
<td>Dec. 15</td>
<td>May 5</td>
</tr>
</tbody>
</table>

**NOTE:** Dates are subject to change. Consult the Schedule Web Guide and online Academic Calendar (www.ucf.edu/info) for information.

All undergraduate degree-seeking students are required to attend Orientation prior to registration. Information on Orientation is mailed to all students upon acceptance to the University.

If possible, examinations should not be scheduled on days or during times of religious holidays. Students are expected to notify their instructor in advance if they intend to observe a holy day of their religious faith. For additional information, contact the Office of Diversity Initiatives (MH 329) at 407-823-6479.

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**University Holidays and Special Events**

<table>
<thead>
<tr>
<th>Holiday/Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor Day Holiday</td>
<td>Sep. 4, 2006</td>
</tr>
<tr>
<td>Homecoming Week (classes still held)</td>
<td>Oct. 30 - Nov. 4, 2006</td>
</tr>
<tr>
<td>Veteran's Day Holiday</td>
<td>Nov. 10-11, 2006</td>
</tr>
<tr>
<td>Thanksgiving Holiday</td>
<td>Nov., 2005</td>
</tr>
<tr>
<td>Martin Luther King Jr. Holiday</td>
<td>November 23-25, 2007</td>
</tr>
<tr>
<td>Spring Break - Holiday</td>
<td>March 12-17, 2007</td>
</tr>
<tr>
<td>Founders Day Honors Convocation (classes still held)</td>
<td>April 4, 2007</td>
</tr>
</tbody>
</table>
# SUMMER 2007 ACADEMIC CALENDAR

<table>
<thead>
<tr>
<th>Summer 2007</th>
<th>Session A</th>
<th>Session B</th>
<th>Session C</th>
<th>Session D</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application deadline for all New Undergraduate Freshmen Applicants and Transfers</td>
<td>March 1</td>
<td>March 1</td>
<td>March 1</td>
<td>March 1</td>
</tr>
<tr>
<td>Application deadlines for readmission</td>
<td>April 13</td>
<td>April 13</td>
<td>April 13</td>
<td>April 13</td>
</tr>
<tr>
<td>Graduation Application (Intent to Graduate form) due in college advising office</td>
<td>Mar. 5 - April 23</td>
<td>Mar. 5 - April 23</td>
<td>Mar. 5 - April 23</td>
<td>Mar. 5 - April 23</td>
</tr>
<tr>
<td>Registration for State Employees, Non-degree, Transients and Audits (begins 3:00 p.m.)</td>
<td>May 11</td>
<td>June 22</td>
<td>May 11</td>
<td>May 11</td>
</tr>
<tr>
<td>Registration for UCF Employees, Senior Citizen Audits, and STEP (begins 3:30 p.m.)</td>
<td>May 11</td>
<td>June 22</td>
<td>May 11</td>
<td>May 11</td>
</tr>
<tr>
<td>Residence halls open (11:00 a.m.)</td>
<td>May 13</td>
<td>June 23</td>
<td>May 13</td>
<td>May 13</td>
</tr>
<tr>
<td>Classes begin</td>
<td>May 4</td>
<td>June 25</td>
<td>May 4</td>
<td>May 4</td>
</tr>
<tr>
<td>Late Registration and Add/Drop</td>
<td>May 14-18</td>
<td>June 25-29</td>
<td>May 14-18</td>
<td>May 14-18</td>
</tr>
<tr>
<td>Fees due; Last day for full refund</td>
<td>May 25, 2007 - Students registering from 3/26/07 through 5/18/07</td>
<td>7/6/07 - Students registering for Summer B only through 6/29/07</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Grade Forgiveness deadline</td>
<td>May 18</td>
<td>June 29</td>
<td>May 18</td>
<td>May 18</td>
</tr>
<tr>
<td>Withdrawal deadline</td>
<td>June 1</td>
<td>July 13</td>
<td>June 22</td>
<td>June 15</td>
</tr>
<tr>
<td>VA deferral payment deadline</td>
<td>July 27</td>
<td>July 27</td>
<td>July 27</td>
<td>July 27</td>
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<tr>
<td>Classes end; last day to remove incomplete grades</td>
<td>June 22</td>
<td>August 3</td>
<td>August 3</td>
<td>July 13</td>
</tr>
<tr>
<td>Final Examination Period</td>
<td>June 22</td>
<td>August 3</td>
<td>August 3</td>
<td>July 13</td>
</tr>
<tr>
<td>Residence halls close (noon)</td>
<td>June 23</td>
<td>August 4</td>
<td>August 4</td>
<td>July 14</td>
</tr>
<tr>
<td>Grades due in Registrar’s Office</td>
<td>June 25</td>
<td>August 6</td>
<td>August 6</td>
<td>July 16</td>
</tr>
<tr>
<td>Grades Available on myUCF (begins 9:00 a.m.)</td>
<td>June 26</td>
<td>August 8</td>
<td>August 8</td>
<td>July 17</td>
</tr>
<tr>
<td>Commencement</td>
<td>August 4</td>
<td>August 4</td>
<td>August 4</td>
<td>August 4</td>
</tr>
</tbody>
</table>

**NOTE:** Dates are pending approval by the Florida Department of Education and subject to change. Consult the Schedule Web Guide and online Academic Calendar (www.ucf.edu/info) for information.

All undergraduate degree-seeking students are required to attend Orientation prior to registration. Information on Orientation is mailed to all students upon acceptance to the University. If possible, examinations should not be scheduled on days or during times of religious holidays. Students are expected to notify their instructor in advance if they intend to observe a holy day of their religious faith. For additional information, contact the Office of Diversity Initiatives (MH 329) at 407-823-6479.

1. Ends at 5:00 p.m. on last day
2. Summer B payment deadline for all students who register 3/26 - 5/18; Summer B payment deadline for all students who register May 19 - June 29.
3. $100 Late Registration Fee applies to students who enroll following the close of Add/Drop or who enroll for the first time that term during Late Registration and Add/Drop. $100 Late Payment Fee applies to students who do not pay their fees or do not pay their fees by the due date.
4. Incomplete grades must be removed within one year of the last day of the term or prior to graduation from the University, whichever comes first, else they will change to F.®
5. Summer Final Exams are given during the last class meeting

### University Holidays and Special Events

- **Memorial Day Holiday** .................................. May 28, 2007
- **Independence Day Holiday** ................................. July 4, 2007
UNIVERSITY NOTICES

Administrative Procedures Act Policy Statement
The University of Central Florida, under applicable rules of the Administrative Procedures Act, may change any of the announcements, information, policies, rules, regulations, or procedures set forth in this Undergraduate Catalog. The Undergraduate Catalog is published once a year and cannot always reflect new and modified regulations. Statements in this Undergraduate Catalog may not be regarded in the nature of binding obligations on the institution or the State of Florida. While every effort will be made to accommodate the curricular needs of students, limited resources may prevent the University from offering all required courses in each semester or in day and evening sections.

Students will be held accountable for the requirements, policies, and procedures described in this Undergraduate Catalog. Additional information or clarification of any policy or procedure may be obtained from the specified office.

Non-Discrimination Policy (including sexual harassment)
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, or veteran’s status 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 when:
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; or
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 Equity Coordinator. The Director of the Office of Equal Opportunity and Affirmative Action Programs is the campus Equity Coordinator responsible for concerns in all areas of discrimination. The office is located on the Orlando campus, in Millican Hall 330, Orlando, FL 32816-0030. The phone number is 407-UCF-1EEO. Policies and guidelines are available online at http://pegasus.cc.ucf.edu/~eoo/home.html

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, 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 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.

Campus Alcoholic Beverages Policy
The sale, service, possession and consumption of alcoholic beverages shall comply with state and federal laws, city and county ordinances, and the licensing agreement with on-campus distributors which allows for the sale and service of alcoholic beverages. In addition the University has formulated the following policies governing the sale, service, possession and consumption of alcoholic beverages on campus.

Guidelines
The sale and service of alcoholic beverages to persons younger than 21 years of age is prohibited. Possession or consumption of alcoholic beverages is prohibited by persons younger than 21 years of age. Possession and consumption of alcoholic beverages in open or unsealed containers is prohibited except in designated areas or as approved with special events. Individuals are responsible for their actions regardless of their mental or physical state as it may be affected by mind-altering chemicals such as alcohol and other drugs.

Student organizations may develop more stringent regulations regarding alcohol use.

Locations
The sale of alcoholic beverages to individuals of legal age will be permitted in licensed areas by licensed on-campus distributors.
The sale or service of alcoholic beverages to individuals of legal age will be permitted at other select campus locations for catered functions by properly authorized distributors.

The serving, possession or consumption of alcohol by individuals of legal age may be permitted in private residential rooms in the residence halls and other on-campus or affiliated housing unless otherwise prohibited by the governing organization. Consumption of alcoholic beverages in public or common areas within on-campus residential units shall follow guidelines provided by their governing organization, and local, state and federal law.

Approval Procedures: Student Groups

Prior approval for students or student organizations to host an event where alcoholic beverages are present in non-licensed campus locations must be obtained from the Director of Student Leadership Programs.

The following information must be supplied by the student organization and approved by the appropriate university officials, no less than 15 calendar days prior to the event(s). These arrangements include but are not limited to: sponsoring organization and nature of event; date, beginning and ending times, and location of event; number in attendance and method of registering guests; method of designation for those of age/underage; contained area where alcohol consumption is permitted; type of alcohol along with food and alternative non-alcoholic beverages to be provided; method of security including number of campus police officers; person to be contacted at event in case of questions or problems.

Approval Procedures: Non-Student Groups

When an event is properly scheduled to take place in a location for which a campus concession holds a license, alcoholic beverages are to be sold through the concession and their license. Groups or organizations who seek to sell beer or wine along with a non-alcoholic choice at other locations on campus must obtain approval to secure a beer or wine license from the Director of Business Services prior to making application for the license. With approval the license is then to be obtained by the organization from the Alcoholic Beverages and Tobacco Division of the Department of Business Regulations of the State of Florida. Off-campus groups or organizations who seek to serve alcoholic beverages in a location and situation which does not require a license must obtain prior approval to serve alcohol on campus from the Director of Business Services.


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 an 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: communication to another through written, visual, or oral means. The presentation of material which 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: Selling notes, handouts, etc. written by the instructor for use in the course for 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 coursework, 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 nation's 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 University's Web site at http://www.cstore.ucf.edu/store/standards.html

Policy for Undeclared Students

All students at the University of Central Florida are expected to officially declare a major prior to earning 45 college credit hours (this includes credits earned from CLEP, Dual Enrollment, AP and IB). An academic record will be kept, which typically will be placed on the records of all students who have not declared a major.

Students must meet with an academic advisor (within Student Development and Enrollment Services, the Colleges, or Regional campuses) to have the hold released.

Student Responsibility for University Communication

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.

To avoid missing important communications from the University, students must ensure that the University has an up-to-date "preferred" e-mail address, as well as both permanent and mailing (local) addresses.

It is critical that students maintain and regularly check their preferred e-mail account for official announcements and notifications. Communications sent to an address on record will be deemed adequate notice. The University does not accept responsibility if official communication is rejected or fails to reach a student who has not notified the University of a change of preferred e-mail or postal mailing address.

Please ensure that your preferred e-mail address, as well as both permanent and mailing (local) addresses and telephone number, are current with the University at all times.

Students can update their contact information online 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, he or she may file a written grievance or appeal. Specific procedures included in specific sections of this catalog and the Golden Rule.

Accreditation

The University of Central Florida, a member institution of the State University System, formerly was named Florida Technological University. The name was changed by action of the Florida Legislature on December 6, 1978.

The University of Central Florida is accredited by the Commission on
Colleges of the Southern Association of Colleges and Schools (1865 Southern Lane, Decatur, Georgia 30033-4097; Telephone number 404-679-4501) to award degrees at the associate, baccalaureate, master’s, and doctoral levels. At the undergraduate level, the following programs (disciplines) have been granted accreditation:

**College/Discipline** | **Accrediting Body**
---|---
**Arts and Humanities** | National Association of Schools of Music (NASM)
**Business Administration** | The Association to Advance Collegiate Schools of Business (AACSB)
**Education** | State Accreditation-Florida Department of Education; National Council for Accreditation of Teacher Education (NCATE)
**Engineering and Computer Science** | Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET)
**Aerospace, Civil, and Mechanical Engineering** | Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET)
**Computer Science** | Computing Accreditation Commission (CAC) of ABET
**Technology and Engineering Technology** | Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET)
**Health Information Management** | American Health Information Management Association (AHIMA) in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAHEP)
**Medical Laboratory Sciences** | National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)
**Nursing** | American Association of Colleges of Nursing/Commission on Collegiate Nursing Education (CCNE); Florida Board of Nursing
**Radiologic Sciences** | Joint Review Committee on Education in Radiologic Technology (JRCERT)
**Social Work** | Council on Social Work Education (CSWE)
**Hospitality Management** | Accreditation Commission for Programs in Hospitality Administration
**Science** | American Chemical Society (ACPHA)

UCF is listed in **Transfer Credit Practices on Designated Educational Institutions** with the highest level of credit acceptability. This handbook is published by the American Association of Collegiate Registrars and Admission Officers, and lists the acceptability of transfer credits based upon the reporting institutions in the states, commonwealths, territories, and selected international institutions.

**The University**

The University of Central Florida is one of the fastest growing, metropolitan research universities in the country—and it is located in Orlando, one of the most dynamic metropolitan areas in the U.S. With a total enrollment of more than 42,500, UCF is now one of the largest universities in the nation.

The UCF community includes an international student body, 129,500 alumni, and 8,400 faculty and staff. The University offers 84 bachelor’s degrees, 64 master’s degrees, three specialist degrees and 23 Ph.D. degrees as well as more than 65 graduate certificate programs. In addition to offering classes on the 1,415-acre main campus in Orlando, UCF’s regional campuses serve students throughout an 11-county area in Central Florida. More than 13,000 students are enrolled in online courses.

UCF is dynamically changing institution with growth and construction. Students and faculty enjoy state-of-the-art wireless classrooms and modern facilities, including a Barnes and Noble Bookstore with a cyber café, and a 185,000-square-foot Student Union with 11 restaurants and seven retail stores. Major construction projects recently completed include the Academic Village Residence Complex; the Promess Energy Student Support Welcome Center; the four-story UCF Academy for Teaching, Learning and Leadership; the Wayne Densch Sports Center; and the 84,500-square-foot Recreation and Wellness Center. The College of Engineering and Computer Science is adding a third major building to complement its current 107,000-square-foot, high-tech wireless facility—and the new Rosen College of Hospitality Management is housed in a 159,000-square-foot campus on a 20-acre site in the heart of Central Florida’s tourist corridor.

UCF is quickly approaching the $100 million level in research funding from federal, state and private sources. By moving the university from promise to prominence in optics, lasers, photonics, nanoscience, engineering, education, simulation and biomolecular science, UCF researchers are demonstrating that imagination has no limits and anything is possible.

The main campus of UCF is located 13 miles east of the city of 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, lakes, golf courses, jogging trails, nature preserves, cultural and artistic opportunities and theme parks.

**Online@UCF, The Virtual Campus**

[http://online.ucf.edu](http://online.ucf.edu)

The UCF Virtual Campus provides opportunities for students to enroll in credit courses and select degree and certificate programs delivered over the Internet. The instructional design of these courses maintains a high-quality learning environment for nontraditional and campus-based students. The course materials and methods were developed by UCF faculty to maximize the learner’s achievement of course and program objectives.

Online courses are identified in the online Class Schedule Search ([https://my.ucf.edu](https://my.ucf.edu)) by the Instruction Mode found on the class detail panel for each class. Web-related instruction modes are:

- **MIXED-MODE/REDUCED SEAT TIME (M)**: These courses include electronic media-based instruction that substitutes for some classroom time (reduced seat time).
- **WORLD WIDE WEB (W)**: These courses are delivered entirely over the Internet. They may require proctored examinations and may include opportunities for face-to-face orientations, but there will be no class attendance requirements.
- **__These types of courses will require access to the Internet, web-browsing knowledge, ability to use email, and basic computer skills such as word processing. Students can also expect to encounter similar Internet requirements in any course offered by UCF, regardless of the specified instruction mode. For information about degree and certificate programs available online, visit [http://online.ucf.edu](http://online.ucf.edu), or write to online@ucf.edu.**

**Center for Distributed Learning**

**Assistant Vice-President and Director:** Steven E. Sorg; sorg@mail.ucf.edu; 407-823-4910

UCF’s virtual campus is supported and facilitated by the Center for Distributed Learning. The Center’s mission is to provide support to students, faculty, and staff in the development and planning of distributed learning courses and programs. The Center serves as a clearinghouse for processes and resources, providing planning and marketing support for off-campus and distributed learning credit programs. The Center also coordinates the University’s standards and accreditation changes resulting from web-based instruction. For information about degree and certificate programs available online, visit [http://online.ucf.edu](http://online.ucf.edu), or write to online@ucf.edu.
### UCF Regional Campuses

The University of Central Florida also offers an opportunity to complete a number of programs through UCF Regional Campuses. Strategically located within an 80-mile radius of the UCF Orlando campus, the multiple non-residential locations partner with six Florida community colleges, fostering seamless and convenient advancement from completion of an A.A. or A.S. degree to upper-level division work on a baccalaureate degree. Programs include 20 Bachelor’s programs, 19 minors, 11 master’s degrees, and 6 graduate certificates with each of the UCF Colleges represented within the system. With close proximity to Orlando, resources are available at UCF and the UCF Regional Campuses, such as admissions, registration, financial aid, advising, student clubs and organizations, disability services, veteran’s affairs, “smart classrooms,” libraries, computer labs, and more.

UCF Regional Campuses provide a wide variety of learning styles and schedules, including web class availability. Admissions, Registration, Financial Assistance and Advising professionals are located at the following campuses: UCF at Cocoa, UCF at Daytona Beach, UCF at Palm Bay, UCF at Sanford/Lake Mary, and UCF at South Lake. Times and dates for all courses are listed online prior to registration each term and all registration periods correspond to the overall UCF schedule.

All locations provide students with an opportunity to enroll in selected courses (junior and senior level) contributing to undergraduate and graduate degrees in a variety of disciplines within the university. As a UCF student, students may register full time or part time for courses at any of the locations without additional paperwork. For the most current information on any of the multiple UCF Regional Campus locations, programs or class schedules, check the website at [www.regionalcampuses.ucf.edu](http://www.regionalcampuses.ucf.edu).

### Administration

#### UCF Regional Campuses Central Administration
12201 Research Parkway, Suite 101
Orlando, 32862; 407-823-4547

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vice Provost, UCF Regional Campuses</td>
<td>David Harrison</td>
</tr>
<tr>
<td>Senior Administrative Assistant</td>
<td>Dania Suarez</td>
</tr>
<tr>
<td>Asst. Vice President, Student Services</td>
<td>A.J. Range</td>
</tr>
<tr>
<td>Director, Academic Planning</td>
<td>Bill Wetherell</td>
</tr>
<tr>
<td>Instructional Facilities Scheduler</td>
<td>Barbara Smith</td>
</tr>
<tr>
<td>Coordinator, Statistical Research</td>
<td>Charles Otto</td>
</tr>
<tr>
<td>Coordinator, Statistical Research</td>
<td>Jeanne Walker</td>
</tr>
<tr>
<td>Director, Admissions</td>
<td>Ange Peterson</td>
</tr>
<tr>
<td>Director, Advising</td>
<td>Judy Boyle</td>
</tr>
<tr>
<td>Director, Business Affairs</td>
<td>Jessica Moriaty</td>
</tr>
<tr>
<td>Assoc. Dir., Academic Support Services</td>
<td>Vicky Matthews</td>
</tr>
<tr>
<td>Director, Communications</td>
<td>Karen Jans</td>
</tr>
<tr>
<td>Coordinator, Web Administrator</td>
<td>Tony Recasino</td>
</tr>
<tr>
<td>Senior Art Specialist</td>
<td>Mary Lou Wade</td>
</tr>
<tr>
<td>Assoc. Director, Head of Partnership Library Services</td>
<td>Mem Stahley</td>
</tr>
<tr>
<td>Coordinator, Computer Technology</td>
<td>Kirk Henry</td>
</tr>
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#### Central Region

**UCF at Downtown**

<table>
<thead>
<tr>
<th>Position</th>
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<tbody>
<tr>
<td>Asst. Vice President, Central Region</td>
<td>David Mealer</td>
</tr>
<tr>
<td>Coordinator, Ed Media/TV</td>
<td>Jim Weaver</td>
</tr>
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#### Eastern Region

**UCF at Daytona Beach, UCF at Heathrow, UCF at Sanford/Lake Mary**

<table>
<thead>
<tr>
<th>Position</th>
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<tbody>
<tr>
<td>Asst. Vice President, Eastern Region</td>
<td>Bernard Jensen</td>
</tr>
<tr>
<td>Director, Eastern Region</td>
<td>David Laney</td>
</tr>
<tr>
<td>Asst. Director, Acad. Support Services</td>
<td>TBA</td>
</tr>
<tr>
<td>Coordinator, Admissions</td>
<td>TBA</td>
</tr>
<tr>
<td>Program Officer, Admissions, Reg.</td>
<td>Sheri Newby-Dunn</td>
</tr>
<tr>
<td>Coordinator, Financial Aid</td>
<td>Charlene Driver</td>
</tr>
<tr>
<td>Coordinator, Acad. Support Services</td>
<td>Leeanne Davis</td>
</tr>
<tr>
<td>Coordinator, Acad. Support Services</td>
<td>Darryl Greely</td>
</tr>
<tr>
<td>Coordinator, Acad. Support Services</td>
<td>Cindi Thomas</td>
</tr>
<tr>
<td>Director, Student Services</td>
<td>Diana Weidman</td>
</tr>
<tr>
<td>Coordinator, Computer Technology</td>
<td>Jason Mayer</td>
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#### Southern Region

**UCF at Cocoa, UCF at Palm Bay**

<table>
<thead>
<tr>
<th>Position</th>
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<tbody>
<tr>
<td>Assoc. Vice President, Southern Region</td>
<td>James A. Drake</td>
</tr>
<tr>
<td>Director, Southern Region</td>
<td>Lauren Miller</td>
</tr>
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</table>

#### Western Region

**UCF at MetroWest, UCF at Ocala, UCF at Osceola, UCF at South Orlando, UCF at South Lake**

<table>
<thead>
<tr>
<th>Position</th>
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<tbody>
<tr>
<td>Asst. Vice President, Western Region</td>
<td>Cecelia Rivers</td>
</tr>
<tr>
<td>Director, Western Region</td>
<td>Edgar Martinez</td>
</tr>
<tr>
<td>Coordinator, Admissions, Reg.</td>
<td>Christie Pasnisi</td>
</tr>
<tr>
<td>Coordinator, Acad. Support Services</td>
<td>Tanya Armstrong</td>
</tr>
<tr>
<td>Coordinator, Acad. Support Services</td>
<td>Selena Forrester</td>
</tr>
<tr>
<td>Coordinator, Acad. Support Services</td>
<td>Kathy Halliwell</td>
</tr>
<tr>
<td>Coordinator, Acad. Support Services</td>
<td>Robin Tinsley</td>
</tr>
<tr>
<td>Coordinator, Ed Media/Communication</td>
<td>TBA</td>
</tr>
</tbody>
</table>

### UCF at Cocoa

(321) 433-7821

(In partnership with Brevard Community College)

#### Undergraduate Degree Programs

- Applied Science (Supervision & Administration or Industrial Operations Track) (B.A.S.) Office of Undergraduate Studies
- Business Administration (B.A.) College of Business Administration
- Communicative Disorders (B.A., B.S.) College of Health and Public Affairs
- Criminal Justice (B.A., B.S.) College of Health and Public Affairs
- Elementary Education (B.S.) College of Education
- Engineering Technology – Operations (B.S.E.T.) College of Engineering and Computer Science
- Exceptional Student Education (B.S.) College of Education
- History (B.A.) College of Arts and Humanities
- Legal Studies (B.A., B.S.) College of Health and Public Affairs
- Liberal Studies (B.A., B.S.) Office of Undergraduate Studies
- Nursing (B.S.N., R.N. to B.S.N.) College of Health and Public Affairs
- Political Science (B.A.) College of Sciences
- Pre-Engineering/Engineering (BCC-UCF Joint Program B.S.E.) College of Engineering and Computer Science
- Psychology (B.A., B.S.) College of Sciences
- Sociology (B.A., B.S.) College of Sciences

#### Undergraduate Minors

- Anthropology in Multicultural Studies
- Business (For non-business majors only)
- Communicative Disorders
- Criminal Justice
- English – Writing
- Exceptional Education
- Health Services Administration
- History
- Interpersonal Communication
- Legal Studies
- Organizational Communication
- Political Science
- Psychology
- Religious Studies
- Social Sciences – Interdisciplinary
- Sociology
- Women’s Studies (Minor and Certificate)

#### Graduate Degree Programs

- Business Administration (P.M.B.A.)* College of Business Administration
- Criminal Justice (M.S.) College of Health and Public Affairs
- Education Leadership (M.Ed.) College of Education
- Engineering FEEDS/ITV (M.S.) College of Engineering
- Health Sciences: Health Services Administration (M.S.) College of Health and Public Affairs
- Industrial Engineering and Management Systems (M.S.) College of Engineering and Computer Science
- Public Administration (M.P.A.) College of Health and Public Affairs
- Reading Education (M.Ed.) College of Education

*Administered in association with the Executive Development Center of the College of Business Administration.
RESOURCES & DEPARTMENTS

Health Sciences: Health Services Administration (M.S.)
Clinical Psychology (M.A.)
Reading Education (M.Ed.)
Business Administration (P.M.B.A.)*
Graduate Degree Programs
Women's Studies (Minor and Certificate)
Sociology
Social Sciences – Interdisciplinary
Psychology
Political Science
Organizational Communication
Hospitality Management
History
Health Services Administration
Exceptional Education
English – Writing
Early Childhood Education
Criminal Justice
Undergraduate Degree Programs
Applied Science (Supervision & Administration Track) (B.A.S.) Office of Undergraduate Studies
Business Administration (B.A.B.A.) College of Business Administration
Criminal Justice (B.A., B.S.) College of Health and Public Affairs
Early Childhood Education (B.S.) College of Education
Elementary Education (B.S.) College of Education
Exceptional Student Education (B.S.) College of Education
Legal Studies (B.A., B.S.) College of Health and Public Affairs
Liberal Studies (B.A., B.S.) Office of Undergraduate Studies
Nursing (B.S.N., R.N. to B.S.N.) College of Health and Public Affairs
Photography (B.S.) College of Arts and Humanities
Political Science (B.A.) College of Sciences
Psychology (B.A., B.S.) College of Sciences
Social Sciences (B.S.) College of Sciences
Sociology (B.A.) College of Sciences

Undergraduate Minors
Anthropology in Multicultural Studies
Business (For non-business majors only)
Criminal Justice
Early Childhood Education
English – Writing
Exceptional Education
Health Services Administration
History
Hospitality Management
Interpersonal Communication
Legal Studies
Organizational Communication
Political Science
Psychology
Religious Studies
Social Sciences – Interdisciplinary
Sociology
Women's Studies (Minor and Certificate)

Graduate Degree Programs
Business Administration (P.M.B.A.)* College of Business Administration
Clinical Psychology (M.A.) College of Sciences
Criminal Justice (M.S.) College of Health and Public Affairs
Educational Leadership (M.Ed.) College of Education
Health Sciences: Health Services Administration (M.S.) College of Health and Public Affairs
Reading Education (M.Ed.) College of Education
Social Work (M.S.W.) College of Health and Public Affairs
*Administered in association with the Executive Development Center of the College of Business Administration

Graduate Certificate Programs
Corrections Leadership
ESOL Endorsement K-12
Professional Writing
Reading Education

UCF Downtown
(407) 317-7700

Undergraduate Degree Programs
Legal Studies (B.A., B.S.) College of Health and Public Affairs

Undergraduate Minors
English – Writing
Health Services Administration
History
Legal Studies
Political Science

Psychology
Social Sciences – Interdisciplinary
Sociology

UCF at Heathrow
(407) 531-5450
(In partnership with Seminole Community College)

Graduate Degree Program
Industrial and Organizational Psychology (M.S.) College of Sciences

UCF at MetroWest
(407) 582-5500
(In partnership with Valencia Community College)

Undergraduate Degree Programs
Applied Science (Supervision & Administration Track) (B.A.S.) Office of Undergraduate Studies
Business Administration (B.A.B.A.) College of Business Administration
Liberal Studies (B.A.) Very limited in scope. Please see an advisor.
Office of Undergraduate Studies
Psychology (B.A.) College of Sciences

Undergraduate Minors
English-Writing
Health Services Administration
History
Legal Studies
Political Science
Psychology
Social Sciences – Interdisciplinary
Sociology

UCF at Ocala
(352) 854-2322, ext. 1818
(In partnership with Central Florida Community College)

Undergraduate Degree Programs
Elementary Education (B.S.) College of Education
Psychology (B.A.) College of Sciences

Undergraduate Minors
English – Writing
Health Services Administration
History
Legal Studies
Political Science
Psychology
Social Sciences – Interdisciplinary
Sociology

UCF at Osceola
(407) 856-6585
(In partnership with Valencia Community College)

Undergraduate Degree Programs
Elementary Education (B.S.) College of Education
Psychology (B.A.) College of Sciences

Graduate Degree Programs
Exceptional Student Education (B.S.)* College of Education
*Admission by cohort only. Please see adviser for further information.

UCF at Palm Bay
(321) 433-7995
(In partnership with Brevard Community College)

Undergraduate Degree Programs
Business Administration (B.A.B.A.) College of Business Administration
Early Childhood Education (B.S.) College of Education
Liberal Studies (B.A., B.S.)(Very limited in scope. Please see an advisor.) Office of Undergraduate Studies
Psychology (B.A.) College of Sciences

Undergraduate Minors
Criminal Justice
Early Childhood Education
English – Writing
Health Services Administration
History
Legal Studies
Organizational Communication
Political Science
Psychology
Social Sciences – Interdisciplinary
Sociology

Graduate Degree Programs
Health Sciences: Health Services Administration (M.A.)
College of Health and Public Affairs
(407) 328-2471
(In partnership with Seminole Community College)

UCF at Sanford/Lake Mary
(407) 328-2471
(In partnership with Seminole Community College)

Undergraduate Degree Programs
Applied Science (Supervision & Administration Track) (B.A.S.) Office of Undergraduate Studies
Business Administration (B.A.B.A.) College of Business Administration
Criminal Justice (B.A., B.S.) College of Health and Public Affairs
Elementary Education (B.S.) College of Education
Legal Studies (B.A., B.S.) College of Health and Public Affairs
Liberal Studies (B.A., B.S.) Office of Undergraduate Studies
Psychology (B.A.) College of Sciences

Undergraduate Minors
Business (For non-business majors only)
Criminal Justice
English – Writing
Health Services Administration
History
Interpersonal Communication
Legal Studies
Organizational Communication
Political Science
Psychology
Social Sciences – Interdisciplinary
Sociology
Women’s Studies

UCF at South Lake
(352) 536-2113
(In partnership with Lake-Sumter Community College)

Undergraduate Degree Programs
Business Administration (B.A.B.A.) College of Business Administration
Early Childhood Education (B.S.) College of Education
Elementary Education (B.S.) College of Education
Liberal Studies (B.A.) (Very limited in scope. Please see an advisor.) Office of Undergraduate Studies
Psychology (B.A.) College of Sciences
Sports and Fitness (B.S.) College of Education

UCF at South Orlando
(407) 856-6585
7300 Lake Ellenor Drive, Orlando, FL 32809
This location provides course work (junior and senior level) contributing to undergraduate degrees. Please check the schedule for course offerings.

Undergraduate Minors
Business (For non-business majors only)
Early Childhood Education
English – Writing
Health Services Administration
History
Legal Studies
Political Science
Psychology
Interdisciplinary
Sociology

The following UCF Regional Campus Minors are available completely (but not exclusively) on the web:
English - Writing
Health Services Administration
History
Legal Studies
Political Science

Psychology
Social Sciences – Interdisciplinary
Sociology

Central Florida Research Park
The Central Florida Research Park, adjacent to the main UCF campus, is a University-related research park established as a result of legislation passed by the Florida Legislature in 1978. The Research Park is a cooperative effort between UCF, the Orange County Research and Development Authority, and the Orange County Board of County Commissioners (which appoints the members of the Authority). The governing body of the Research Park is the Orange County Research and Development Authority.

The objectives of the Central Florida Research Park are in keeping with the legislative action that enabled its creation “to encourage and promote the establishment of research and development activities combining the resources of institutions of higher learning, private sector enterprise involved in pure or applied research, and state or federal governmental agency research.”

The ultimate goal of University-related research parks is to establish an academic/industrial community. The University and officials of the Central Florida Research Park believe that the potential for the establishment of close ties between the University and industry will create an environment conducive to the location of research-oriented industry in the Research Park. This activity will enrich and support the academic, teaching, and research programs of the University. The University, in turn, can provide the necessary expertise and human resources to enhance the research and development activities required and planned by Research Park residents.

The Central Florida Research Park consists of over 1,000 acres of land. Businesses desiring a “university relationship” can purchase or lease land in the Research Park on which to construct a facility or can lease space for office, office/lab, or light manufacturing activities.

Research Park tenants are involved with the University of Central Florida through sponsored research, using faculty as consultants, and using graduate and undergraduate students for intern programs and part-time employment. Research Park tenants can also contract with the University for use of the library, computer resources, and laboratory facilities. Cooperative projects range from technical research to developing business plans and employee training programs.

Endowed Chairs
Endowed chairs are established under the Florida Major Gifts Trust Fund, which provides $420,000 in state funds to match $600,000 in contributions from private sources within a five-year period.

Phillips-Schenck Chair in American Private Enterprise: Created in 1980 as the focal point for a continual dialog on major economic issues, comparative economic systems, and economic decision-making in business. Chair: TBA.

Charles N. Millican Chair in Computer Science: Created in 1983 and dedicated to probing the frontiers of computer science, with emphasis on the direction that the discipline will take over the next decade. Chair: Narsingh Deo.

William S. and Alice M. Jenkins Chair in Community Arts: Created in 1986 to enable UCF to design and oversee programs covering art administration, art therapy, and art education within the Central Florida community.

Carl H. Galloway Chair for Excellence in Business: Created in 1986 to honor Carl Galloway, a pioneer in telecommunications. The purpose is to enhance scholarly activity in teaching and research in the College of Business Administration. Chair: Shelby Gerking.

The Cobb Family Eminent Chair in Optical Sciences and Engineering: Created in 1988 to support the work of an internationally recognized scholar in laser and optical sciences. Chair: George I. A. Stegeman.

Darden Eminent Scholar Chair in Restaurant Management: Created in 1990 to develop a program of excellence in restaurant management. This chair, the first of its kind in the country, also serves as a critical resource for the hospitality industry. Chair: William Fisher.

SunTrust, N.A. Eminent Chair in Banking for Teaching Excellence: Created in 1989 to attract a nationally or internationally prominent expert in banking with a strong commitment to undergraduate, graduate, and executive development. Chair: Stanley Smith.

Al and Nancy Burnett Eminent Scholar Chair in Accounting: Created in 1989 to support an exceptional faculty member in the School of Accounting. Chair: Robin W. Roberts.

Bert Fish Memorial Eminent Scholar Chair: Created in 1990 to
University Of Central Florida

establish an endowed chair in nursing education. This is the first chair to be established at the Daytona Campus. It is designed to improve nursing education and ease the shortage of nurses. Chair: Angeline A. Bushy.

LOCKHEED MARTIN ACADeMY in Math and Science Education: Created in 1992 to stress content enhancement and problem solving approaches in the teaching of science and mathematics. Chair: Michael C. Hynes.

CFHLA Eminent Scholar Chair in Hotel Management: Created in 2002 to support the teaching and research of an internationally recognized scholar in hotel management. Chair: Abraham Bushy.

Linda Chapin Eminent Scholar Chair in Tourism Management: Created in 2002 to support the teaching and research of an internationally recognized scholar in tourism management. Chair: Abraham Pizam.

William Peepers Eminent Scholar Chair in Destination Marketing: Created in 2002 to support the teaching and research of an internationally recognized scholar in destination marketing. Chair: Abraham Bushy.

Robert N. Heintzelman Eminent Scholar Chair: Created in 2002 to conduct research into the determination of the basic cause of greed in humanity and to determine the appropriate manner and methods of eliminating the cause of greed and fostering altruism. Chair: Edward H. Robinson, III.

Denver/Orlando Magic Sport Business Management Endowed Scholarship: Created in 2004 to attract a nationally or internationally prominent scholar in the field of sports, with a strong commitment to graduate sport business management programs. Chair: Richard E. Lapchick.

Orange County Eminent Scholar: Created in 2004 to attract a nationally or internationally prominent scholar to conduct research in his/her primary field and to assist in the development of research programs, and support services for the Institute for Economic Competitiveness, College of Business Administration. Chair: TBA.

Florida Photonics Center of Excellence Eminent Scholar Chair of Nanophotonics: Created in 2003 to strengthen and support teaching and research in the field of nanophotonics at the College of Optics and Photonics. Chair: Dennis Deppe.

Lucent Corporation Chair in Computer Science: Created in 2005 in recognition of the university’s leadership in the Florida High Tech Corridor and the FHTC Council’s objective of attracting, retaining, and growing tech-based industry in our region and in the preparation of the workforce needed for our region. Chair: Mubarak A. Shah. Beat M. and Jill L. Kahal Endowed Chair in Oncology Nursing. Created in 2005 to support work with researchers and clinicians in helping to improve the lives of cancer survivors. Chair: Karen Ondo.

Chatlos Foundation Endowed Fund: Created in 1996 to support a professor in minority health issues, award scholarships to nursing students, purchase supplies, and maintain the equipment at Community Nursing Centers and the Nursing Skills Laboratory. Chair: Emma "E.J." Brown.

University Ombuds Office

The Office of the Ombuds Officer provides members of the University community assistance and advice regarding concerns related to the University. These services are available to every member of the University community: students, staff, faculty, and others. Any type of concern may be brought to the attention of this office: academic, financial, housing, consumer, work-related, or personal. The University Ombuds Officer is a neutral facilitator, and will listen to concerns, help individuals explore options, offer suggestion and advice, and assist in the resolution of the concern. Referral and direction to appropriate individuals and offices, and clarification of University policies and procedures are services of the office. All proceedings in individual cases will be held confidential by the Ombuds Officer unless otherwise authorized by the complainant, or otherwise required by applicable law, including without limitation, Chapter 119, Florida Statutes. The University Ombuds Office is located in Millican Hall, Suite 243, room 247. Appointments may be made by calling 407-823-6440.

Office of Undergraduate Studies

Vice Provost and Dean: John F. Schell; MH 311, 407-823-4197.

The Office of Undergraduate Studies supports the colleges in their curricular planning, collaborates with faculty curricular oversight, works with faculty and administrators to assure the strength of university wide programs such as general education, and advocates for an undergraduate education that offers an outstanding learning experi-

ence to UCF students. Interdisciplinary academic programs such as the Bachelor of Applied Sciences and the Liberal Studies Program are part of this office as is the Office of Academic Services. Also reporting to the Dean of Undergraduate studies are the Division of Continuing Education, the Office of Experiential Learning, the Faculty Center for Teaching and Learning, the Office of McNair and RAM Scholars Programs, the Office of Undergraduate Research, and the Coordinator of Special Undergraduate Programs. The Dean serves as the final appeal for all undergraduate academic appeals.

Academic Services

Associate Dean: David R. Dees; MH 210; 407-823-2691.

This office is responsible for administering State of Florida and University wide academic policies pertaining to academic record changes, curriculum file management, the degree audit program, and University wide academic policies and graduation requirements. The primary goal of the office is to apply these policies fairly, promptly and evenly according to established guidelines, to provide a prompt response to requests from students, to maintain accurate and effective computer records for advisement and graduation certification.

International Services Center

Director: Nataly Chandia; CMMS (Building 881), 407-823-2337.

The International Services Center (ISC), a unit of the Division of Graduate Studies, offers assistance and information to the University of Central Florida international community. The ISC provides leadership, advocacy and support services for current international students, scholars, and employees at the University of Central Florida, as well as assistance in adjusting to a new academic environment and culture. Further, ISC has and will devote its efforts, plans and processes to ensure legal compliance with the federal regulations, so international populations can maintain their status. Services of the International Services Center include: issuing necessary CIS documents to facilitate visa issuance abroad, transfer procedures, employment authorization for students and scholars, H1B visa holders’ immigration advice by professional lawyers, and international taxation assistance. The ISC provides policies pertaining to advising, access, updated and timely information on issues and needs pertinent to international students, scholars, and employees. Another important role of the Center is to enhance international awareness and cross cultural understanding through educational, cultural and social programs and activities.

UCF Public Safety and Police

The UCF Police Department is a full-service law enforcement agency. The 50 certified police officers provide police services twenty-four hours a day, seven days a week. The Patrol Division patrols the campus on foot, marked patrol cars, canine units, and on marked motorcycles. The Investigations Unit (407-823-5980) consists of five detectives who investigate all unresolved criminal cases.

The Community Relations Unit (407-823-2165) presents crime prevention seminars for personal and property protection for the community. The Community Relations Unit also hires and trains students for the Safe Escort Patrol Service (SEPS) 407-823-2424, which is an evening escort service for all individuals on campus (Sunday through Thursday evenings; 7:00 p.m. to 1:00 a.m.). The Victim Services Unit, University Towers, Ste. 450, 12201 Research Parkway, (the main office number: 407-823-2425; Christine Mouton, Coordinator. 407-823-1894; Katie McDaniel, Victim Advocate, 407-823-1892) provides services for: 1) emotional support and practical assistance; 2) information and referrals; and 3) education.

The Parking Services Division (407-823-5812) maintains campus parking and provides assistance to stranded motorists. More information about parking regulations, online registrations for parking decals, and the UCF Shuttle Program, see their website at http://parking.ucf.edu

UCFPD publishes a complete brochure titled Knight’s Safety Guide. The Knight’s Safety Guide presents an overview of all police services at UCF and the many programs that UCF Police provides. The brochure includes a visitor’s guide to all police services, a crime prevention plan for personal safety, crime prevention tips, and campus crime statistics. All information is compiled from the Federal Crime Awareness and Security Act of 1990. A copy of the Knight’s Safety Guide is available at the Undergraduate Admissions Office, Human Resources Office, and the University Police Department. A copy is mailed each year to students and staff. For more information the UCFPD website is http://police.ucf.edu
Information Technologies and Resources

The Division of Information Technologies and Resources has University-wide responsibility for planning, implementation, and support of information technology resources. Units within the Division include the Library, Computer Services, Teledata Services, Instructional Resources, Course Development and Web Services, the Research Initiative for Teaching Effectiveness, and the Center for Distributed Learning. The services and resources of each unit are described in the following sections.

University Libraries

http://library.ucf.edu

Director of University Libraries: Barry B. Baker
LR 512; 407-823-2574

Associate Director for Administrative Services: Frank R. Allen
LR 512; 407-823-2564

Associate Director for Public Services: Margaret K. Scharf
LR 512; 407-823-2564

Associate Director for Collections and Technical Services: Jeannette A. Ward
LR 502; 407-823-2575

Assistant Director for Systems and Technology: Selma K. Jaskowski
LR 512; 407-823-5444


The Library offers a variety of information resources and services. An extensive print resource collection includes 1.6 million volumes, 16,500 journal subscriptions, 2.9 million microforms and 40,000 media titles. The libraries’ rapidly growing electronic resources include 362 databases, 45,000 e-books, and 9,200 electronic journals. The library is a partial depository for United States government publications.

The University Libraries form a comprehensive web-based catalog, which can be accessed from any public or home PC. WebLUIs also offers a gateway to the Library's electronic databases, the catalogs of other state university libraries and the community college system libraries. For help and advice in the use of the Library and its materials, the Reference Desk is open during most library hours. Librarians are on duty for assistance with selection and use of online and traditional resources, and individual appointments can be made for in-depth research consultation. http://library.ucf.edu/askLUIs connects students with Ask a Librarian, where questions are submitted and answered in a real-time chat session, by email, or by telephone at (407) 823-2562, or toll-free at (866)271-7589.

The Interlibrary Loan and Document Delivery Services Department (ILL) assists students in obtaining materials not owned by the UCF Libraries, but are owned by other libraries worldwide. Most books and photocopied materials can be acquired free of charge within two weeks. Request forms are available at http://library.ucf.edu/ill, and at the ILL Office (Room 221). For more information, call (407) 823-2383 during office hours, or visit the ILL Web site.

Services are provided for people with disabilities. By using WebLUIs, students can determine the availability of needed books and telephone the Library to request that book’s materials be retrieved from the shelves and held for them at the circulation desk. A workstation equipped with Jaws and Zoomtext technology is available, as well as a Kurzweil reading machine. In collaboration with the University’s Office of Student Disability Services and the Florida Bureau of Blind Services, the library staff will assist students in the use of equipment and software needed to use library resources.

Special materials in the Library’s audiovisual collections, including microforms and microfilm, are available through the Campus Resource Library (CRL). This facility, located in the Library building, contains extensive holdings of microform and film materials from libraries and local institutions in Central Florida Memory, Florida Heritage, and similar projects to provide digital access to special and historic images and documents.

The Curriculum Materials Center (CMC), a unit of the University Library, is located in the Education Building. The CMC provides representative K-12 curriculum materials for preview, review, analysis and circulation. The facility serves primarily the students and faculty of the College of Education (COE), however is open to all campus faculty, staff, and students. For more information see the CMC web page at http://library.ucf.edu/cmc or call 823-2791.

The Universal Orlando Foundation Library is located at the Rosen College of Hospitality Management in the heart of the tourist corridor on Universal Boulevard. Though the facility primarily serves the students, faculty, and staff of the Rosen School, the library is open to the entire UCF community as well as to hospitality industry professionals. The Library is fully staffed and users have access to WebLUIs and most of the services and resources provided by the main campus library. For additional information, call: (407) 903-8100.

Additional library collections are available at the Brevard Community College/UCF Joint-Use Libraries in Cocoa and Palm Bay, the Daytona Beach Community College Joint-Use Library in Daytona Beach and the UCF Southlake (Clermont) Joint-Use Library. The university partners with local community colleges to provide complete information services, including materials processing and check-out at these regional sites. All locations have electronic access to WebLUIs and to University resources on the Web. Courier and intercampus loan services make the main library’s collections available to UCF students at all regional campus sites. For more information see the web site at http://library.ucf.edu/Locations.htm.

Office of Instructional Resources

Director: Ruth Marshall; Classroom Building 1, Room 203; 407-823-2571, Fax 407-823-2109; http://www.oir.ucf.edu

The Office of Instructional Resources (OIR) supports UCF administrators, faculty, and staff with multimedia design and production, digital imaging, webcasting, 3D, multimedia classroom support services. OIR manages UCF’s interactive video network, which includes eight origination rooms on the Orlando campus and sixteen receive rooms at regional campus locations. OIR’s facilities include the Digital Image Processing Lab (DIPL), located in the Research Pavilion (Suite 169) in the Central Florida Research Park. In association with its community partners, DIPL offers UCF faculty access to state-of-the-art digital imaging technologies including digital-image processing, digital document scanning, and CD-ROM production. OIR’s Faculty Multimedia Center (CL1 202) provides multimedia production and training resources for faculty using Macintosh and Windows personal computer systems. OIR’s Interactive Video Classroom (CL1 320) is used for videoconferencing and ITV course origination. The room also provides faculty with an excellent location for training in ITV production and delivery skills. OIR also supports more than 340 advanced multimedia classroom and eight interactive video origination classrooms located throughout the campus and our Regional Campus locations.

OIR provides UCF with a full array of distributed-learning delivery systems, including an interactive video network that serves eight rooms on the Orlando campus; UCF Downtown; UCF at Daytona; UCF at Cocoa, UCF at Palm Bay, UCF at MetroWest (Valencia), UCF at South Lake (Clermont), UCF at Kennedy Space Center, UCF
at South Orlando, and other regional locations. OIR provides cable television delivery on the Orlando campus, ISDN and IP-based videoconference equipment and services.

**Course Development and Web Services**
Director: Barbara Truman; LIB 107; 407-823-3718; http://cdws.ucf.edu

Course Development and Web Services (CDWS) is responsible for supporting UCF's institutionally-sponsored online programs such as online learning (http://online.ucf.edu), the main Web site (http://www.ucf.edu), myUCF portal (http://my.ucf.edu), and enterprise applications such as AskUCF (http://ask.ucf.edu), and eCommunity (http://ecomunity.ucf.edu). CDWS also conducts faculty development, or initiatives identified as priorities for support through an institutional planning process. Examples of faculty development include IDL6543 (http://reach.ucf.edu/~idl6543), ADL5000 (http://reach.ucf.edu/~adl5000), and Essentials (http://reach.ucf.edu~essentials). CDWS offers support for students taking online courses through the Teaching Online Web site (http://team.ucf.edu), and offers support for faculty through the Teaching Online Web site.

CDWS sponsors events, professional development opportunities, and research and development activities through the Partnership for the Advancement of Distributed Learning located in the Partnership II building in UCF’s Research Park. CDWS recruits talented students regularly to work on a variety of multimedia projects that support UCF’s mission. CDWS TechrangerSM team produces Web sites for courses and hosts TechTime events.

**Intercollegiate Athletics**

Programs in Intercollegiate Athletics are coordinated by coaches and staff of the UCF Athletics Association, Inc. under the general supervision of the Director of Athletics, who reports to the president. The University of Central Florida is a member of the National Collegiate Athletic Association (NCAA), Division I, competes in the Atlantic Sun Conference, and competes in the Mid-American Conference for football. Intercollegiate athletics contests are governed by the rules of play published by NCAA and all established eligibility standards are observed. UCF’s current intercollegiate sports for men include baseball, basketball, cross country, golf, football, soccer, and tennis. Women’s sports include basketball, cross-country, golf, rowing, soccer, softball, outdoor and indoor track and field, tennis, and volleyball.

**Graduation Rate Disclosure**

The completion or graduation rate is the rate at which full-time, certificate-seeking or degree-seeking undergraduate students who are enrolled for the first time at the institution, and who have not previously enrolled at any other institution of higher education, either complete or graduate from their programs. The freshman retention rate for Fall 2004 students is 83 percent. The information is public and available for review in the UCF Library.

**UCF Arena**

The UCF Arena is an indoor, multipurpose facility that opened in August of 1991. The Arena is host to a variety of campus events, including all commencement ceremonies, men’s and women’s basketball games, volleyball games, concerts and lectures. Please visit our website at www.arena.ucf.edu. For event or rental information, call 407-823-3070.

**University Bookstore**

The UCF Bookstore, a Barnes and Noble College division bookstore, located next to the John T. Washington Center, is the text book and course material destination. It offers a complete line of UCF clothing, logo gift items, convenience and snack items, as well as a full service Starbucks cafe. Operating hours when classes are in session are, Monday through Thursday 8:00 a.m. to 7:00 p.m., Friday 8:00 a.m. to 5:00 p.m., and Saturday 10:00 a.m. to 2:00 p.m. For more information call 407-823-2665 or visit the website at http://ufc.bkstore.com.

**Transit Services**

Through joint efforts of UCF, LYNX and the University/Alafaya Corridor Transportation Association (UACTA), UCF, students, faculty, and staff have a number of transit options. Three LYNX bus routes serve UCF from Oviedo, Downtown Orlando, and Valencia Community College East campus. Through the use of these routes, commuters can connect to most anywhere in Greater Orlando. These buses normally operate at 30 to 60 minute intervals. The cost to ride LYNX is $1.25 per ride. Special passes are available at discounted rates. Route maps may be obtained at the Millican Hall Information Booth or by calling UACTA at 407-658-8492, or LYNX at 407-841-8240.

The Student Transportation Shuttle Service provides transit needs for student apartments communities, as well as traveling through the Research Park area. This service consists of fixed routes operating on 15-minute intervals. All students, faculty, and staff are eligible to ride the shuttle at no per-trip cost. Additionally, UCF has available intracampus travel on the shuttle’s Black and Gold line. Each route has ten stops on campus. Shuttles operate continuously from 7:00 a.m. until 4:00 p.m. Please refer to our webpage at http://parking.ucf.edu/shuttle.html or call 407-823-6767.

**The Orlando-UCF Shakespeare Festival**

The Orlando-UCF Shakespeare Festival is Central Florida’s classical theater, presenting professional artists in a variety of world-class plays. An Equity company, the Festival presents a 6-play Signature Series of Shakespeare and other works; a Theater for Young Audiences Series; PLAYFEST, the Orlando Festival of New Plays; and innovative educational programming that includes “The Young Company”, “Shakespeare Alive”, and Shakesperience”. Performances are presented at two theaters in the Lowndes Shakespeare Center and in the amphitheater at Orlando’s Lake Eola Park.

In its sixteenth season, the Festival has achieved a position of national recognition, attracting artists from across the country. The Festival has been featured in such national publications as The New York Times, Southern Living, Theater Week, Backstage and Southern Theater. Internships and independent studies for UCF students and alumni are available with the Festival in many departments. For more information, contact Artistic Director, Jim Helsinger, 812 E. Rolls St., Suite 100, Orlando FL 32803, 407/447-17, Fax 407/447-1701.

**The UCF Alumni Association**

The University of Central Florida Alumni Association develops and maintains alumni awareness and support of the university. While alumni comprise the core member group, membership in the UCF Alumni Association is available during all phases of UCF life. Children up to age 12 can have fun through the Junior Jousters Program. UCF students can join 4EVER KNIGHTS, offering them valuable interaction with alumni. Parents of UCF students can stay connected through Parent Memberships.

Membership in one of the UCF Alumni Association programs provides many benefits, including:
- Money-saving benefits, discounts, and services from buying UCF logo merchandise to saving money on auto, home or health insurance
- Social and networking opportunities at Networking Knights, AlumKnight Outs, cultural events, pre-game events, KnightFest, community volunteer projects, travel getaways and road trips.
- Career assistance through a partnership with UCF Career Services & Experiential Learning with free access to the GOLD Connection, including job listings and on-campus recruiting
- Access to UCF facilities such as the Recreation and Wellness Center, the UCF Library, and the UCF Student Union (great for weddings or meetings).
- Timely information via Pegasus, the award-winning alumni magazine (mailed 6 times per year), the Inside Scoop e-newsletter and access to member-only areas of www.ucfalumni.com, our Web site.

The UCF Alumni Association, offers many volunteer opportunities and awards more than $40,000 in scholarships to eligible students every year. To join, or for more information, stop by the UCF Alumni Association located in the Research Pavilion, 12424 Research Parkway, Suite 301; call 407-UCF-ALUM (823-2588); toll-free (800) 330-ALUM; or connect anytime at www.ucfalumni.com.

**UCF Foundation, Incorporated**

The UCF Foundation, Incorporated is a non-profit, tax-exempt corporation directed by a 44-member community-based Board of Directors that encourages, solicits, receives, and administers private gifts and bequests of property and funds for scientific, educational, and charitable purposes. All gifts to UCF are received and processed through the UCF Foundation for support of the University. Call 407-882-1220 for additional information.
The division is committed to achieving the highest possible competitive advantage for the university. This will be measured not simply in terms of quantity or even quality of the communications the division produces, but on the increasing awareness of and positive associations with the university’s diverse constituencies.

Undergraduate Admissions
Assistant Vice President: Gordon D. Chavis, Jr., J.D.; Progress Energy University Welcome Center 407-823-3000; email: admission@mail.ucf.edu; http://www.admissions.sdes.ucf.edu
The Office of Undergraduate Admissions coordinates the admission and enrollment of all undergraduate first-time-in-college, transfer, non-degree, and non-Florida state university transient students to the Orlando, Cocoa, South Lake, and Daytona campuses. The office’s primary mission is to identify, attract, and enroll talented, diverse, and academically qualified students who will contribute to and achieve growth and success at the University of Central Florida.

The office administers several programs for prospective students and parents, including daily tours and information sessions, open house events, area receptions, and high school and community college visits by the admissions staff. We also provide students with the opportunity to meet one-on-one with an admissions representative on campus. Please contact the office at 407-823-3000 or visit our website for further information. Office hours are: Monday/Thursday 9:00 a.m. to 7:00 p.m., Tuesday/Wednesday/ Friday 9:00 a.m. to 5:00 p.m

Student Financial Assistance
Executive Director: Mary H. McKinney
MH 120
http://finaid.ucf.edu
The Office of Student Financial Assistance manages resources for all students. Once financial aid eligibility is determined, the office provides options to help students meet their educational goals. Comprehensive counseling is available by appointment. Due to confidentiality, counseling by phone and email is limited.

Student Outreach Programs
Director: Rhonda C. Hall; OTC 600; 407-823-5580
http://www.reachout.sdes.ucf.edu
The primary mission of Student Outreach Programs is to attract, motivate, and prepare select underrepresented student groups to complete a college education. These students are provided with essential information, educational materials and collegial experiences to enhance their preparation for post-secondary study.

A myriad of pre-collegiate programs are administered by Student Outreach. The College Reachout Program (CROP) is supported by the Florida Department of Education and provides campus and school-based programs to strengthen the success skills of students in grades 6-12. The UCF McKnight Center of Excellence offers direct access to community-based programs for students at every grade level. Community partnerships help to identify potential students, offer volunteer support and make significant contributions to support program goals and objectives.

Throughout the year, workshops, seminars and other activities and events are sponsored to support the student’s personal development and academic achievement. Students are invited to the UCF campus throughout the year, and may also participate in summer programs that provide an early introduction to college life and which equip students with unique approaches to attain college preparedness.
Division of Student Development and Enrollment Services

Vice President for Student Development and Enrollment Services: Maribeth Ehazs, MH 282; 407-823-2226
http://www.sdes.ucf.edu

Introduction

The Division of Student Development and Enrollment Services (SDES) is an integral part of the University of Central Florida. Reporting to the provost, SDES is responsible for the administration and management of programs, services, facilities, and activities designed to support learning both inside and outside the classroom.

The division is committed to providing an integrated program of opportunities that emphasizes key transitions, student and academic support services, and personal growth. Some of these include: orientation, first year academic advising, academic exploration, registration, multicultural services, personal counseling, housing and residence life, health services, career development, the student union, recreation services, student activities and organizations, tutoring, learning assistance, and leadership development.

Key values that guide our conduct, performance, and decisions are outlined in "The UCF Creed." They are integrity, scholarship, community, creativity, and excellence. We are committed to collaborate and partner with other academic and administrative units to create a meaningful and rewarding collegiate experience for all students.

The division is comprised of four main areas: Academic Development and Retention, Campus Life, Administrative Services, and Assessment and Planning. Together, we strive to measure our success by student persistence, quality service, and exceptional learning.

Academic Development and Retention

Associate Vice President: Mark Allen Poisel; MH 282

The Unit of Academic Development and Retention facilitates successful student transitions and experiences by providing the foundation and support for their academic, personal and career success.

Academic Services for Student-Athletes (ASSA)

Director: Mark Gumble; WDSC 110, SABRE Centre; 407-823-5895
http://www.assa.sdes.ucf.edu

The Office of Academic Services for Student-Athletes works in collaboration with the Athletics Department to assist student-athletes in their efforts to establish and achieve their personal, academic, NCAA Division I academic-athletic eligibility, and career planning goals.

ASSA services include:

- Providing transition services that promote the academic success of student-athletes;
- Guiding student-athletes in their selection of meaningful and appropriate major and minor fields of study;
- Assisting student-athletes with course registration, understanding of policies and procedures, and tracking progress towards degree completion;
- Organizing study halls and tutorial services;
- Leading student-athletes in their personal development through participation in the NCAA CHAMPS Life-Skills Program;
- Directing students to utilize the full spectrum of other University...
services:

* Preparing student-athletes in their career planning and development;
* Assisting learning-disabled student-athletes with assessments and accommodations; and
* Providing student-athletes with computer access and services.

**National Consortium for Academics and Sports (NCAS)**
Director: Suzi Katz; MSCC 110; 407-823-5243
http://www.ncasse.org

The mission of the National Consortium for Academics and Sports at the University of Central Florida is to help create a better society by focusing on educational attainment and using the power and appeal of sport to positively affect social change in the Central Florida community. The NCAS reaches this mission by building partnerships between the University, local schools, community organizations, and other non-profit agencies that also are committed to serving the community. For additional information, visit the National Consortium for Academics and Sports website at www.ncasse.org.

**Student Success Center**
Assistant Vice President, DeLaine Priest; PH 216; 407-823-2137; http://ssc.sdes.ucf.edu

The Student Success Center provides seamless articulation, programs and services that support, motivate, and encourage first year students to more effectively transition into their new UCF environment while minimizing threats to their success. This unit, comprised of the offices of First Year Advising and Exploration, Multicultural Academic Support Services, Student Academic Resource Center, Transfer and Transition Services, and the University Testing Center, offers academic advising, learning support services, outreach, collaboration, and coordination. For more information, visit Student Success Center’s website at http://ssc.sdes.ucf.edu.

**Academic Exploration Program (AEP)**
407-823-5322; http://aep.sdes.ucf.edu

The Academic Exploration Program has been developed to provide structured experiences to assist students who have not declared a major. Students are provided major exploration and career development connections as primary advising initiatives so they can assess, explore, plan, and decide on their future major at UCF. AEP has several components including coordinated academic advising services from a first-year advising office, major and career exploration programming activities, and online assessments. The program is also available to first year students who are unsure about their major choice and to those changing their majors. For more information, visit the AEP website at http://aep.sdes.ucf.edu.

**First Year Advising and Exploration (FYAE)**
Director: Gloria Laureano; PH 116; 407-823-3789
http://firstyear.sdes.ucf.edu

UCF recognizes that starting in a new learning environment can present many challenging life transitions for incoming freshmen students. First Year Advising and Exploration has been established to prepare and advise first-time-in-college students (not assigned to other first year advising offices). The overriding mission of the office is to assist first-year students by providing numerous academic advising support services and other programs that will lead to their overall satisfaction, success and retention at UCF. Students who have not selected a major (Undeclared students) are provided focused advising support services through the Academic Exploration Program to assist in the major selection process.

To fulfill this mission, each student is assigned a specific academic advisor who connects with the student through various activities such as orientation, small group advising sessions, outreach programs, email and phone communication, and individual appointments. The office focuses its efforts on providing proactive academic advising support, establishing early and regular communication, and providing outreach advising activities for first year students residing in both on- and off-campus facilities. FYAE also offers academic advising at a satellite office located in the Pegasus Landing affiliated housing area. In addition, high school students admitted to UCF as part of the Early Admission or Dual Enrollment programs are advised through First Year Advising and Exploration. For further information, visit Howard Phillips Hall, room 116, or the FYAE website at http://firstyear.sdes.ucf.edu.

**Multicultural Academic and Support Services (MASS)**
Interim Director: Terry Exum; PH 102; 407-823-2716; http://www.mass.sdes.ucf.edu

The Office of Multicultural Academic and Support Services provides comprehensive academic support, cultural enrichment, consultation, and referral services that promote the recruitment, admission, retention, and graduation of African American, Hispanic American, Asian American and Native American students. MASS offers personalized advising and support; monitors academic progress; sponsors a six-week summer program, Seizing Opportunities for Achievement and Retention (SOAR); and designs and coordinates cultural and social activities to assist multicultural students in realizing their academic, career and personal goals. MASS serves as the focal point of operations in addressing the specific needs, issues and concerns that confront multicultural students at UCF.

**Student Academic Resource Center (SARC)**
Interim Director: Terry Exum; PH 113; 407-823-5130
www.sarc.sdes.ucf.edu

The Student Academic Resource Center provides high-quality programs and services that enable UCF students to achieve their academic goals. Some of these programs include: Supplemental Instruction, tutoring, academic advising, testing services and learning enhancement workshops.

The Supplemental Instruction (SI) program focuses on providing assistance to students in historically difficult courses such as anatomy, biology, chemistry, microbiology, molecular biology, and physics. These peer-led study sessions give students in these courses an opportunity to meet outside of class to compare notes, discuss important concepts, and develop strategies on how to learn the subject matter.

Free peer tutoring is also available for many UCF subject areas, such as accounting, physics, statistics, chemistry, Spanish, economics, and biology, to name a few. In total, SARC provides individual and group tutoring for more than 36 courses.

Each semester, SAR also offers a series of academic success workshops designed to address common student issues. Among these are test-taking strategies, time management, reading effectiveness, and memory improvement. Additionally, preparatory workshops are offered for the math portions of the College Level Academic Skills Test (CLAST) and General Knowledge exam. Computer-assisted learning programs are also available for the GRE, GMAT, and CLAST exams.

SARC’s professional academic advisors provide support for students in the Pegasus Success Program and the College Achievement Program (CAP).

A learning skills counselor is also available for students who need study skills advice or those who wish to enhance their educational experience. For additional information, visit the Student Academic Resource Center website at http://sarc.sdes.ucf.edu.

**University Testing Center (UTC)**
Assistant Director, Rebecca Piety; PH 107; 407-823-5109
www.sarc.sdes.ucf.edu

The University Testing Center administers the state College Level Academic Skills Test (CLAST) and the Computer-Adapted CLAST (CAT-CLAST); placement examinations such as the College Placement Test (CPT); Foreign Language Proficiency Exam (FLPE); Grammar Proficiency Exam (GPE); Institutional Academic College Test (ACT); and College Level Examination Program (CLEP). UTC also administers the following national exams:

* Law School Admissions Test (LSAT)
* Medical College Admissions test (MCAT)
* Florida Teachers Certification Examination (FTCE)

For additional information, visit the following website www.sarc.sdes.ucf.edu.

**Transfer and Transition Services**
Director: Charlene A. Sinard; PH 221; 407-823-2231
http://transfer.sdes.ucf.edu

The Office of Transfer and Transition Services has been organized to help transfer students make a seamless transition so that they have a more successful experience at the University of Central Florida. The office provides the following resources and services:

* General advising and referral for transfer students before and after they enroll at UCF;
* Advising for transfer students who are undeclared majors, undecided, or changing majors;
Divison Of Student Development And Enrollment Services

- Current information about university programs and policies including entrance and exit requirements;
- Assistance in resolving issues once students have transferred;
- Transition advising services for FTICs with 45+ credit hours, currently enrolled sophomores, juniors and seniors who are undeclared or changing majors;
- Peer Mentors provide transfer advising services;
- Written articulation agreements and inter-institutional relationships between the University of Central Florida and secondary schools, community colleges or universities;
- Articulation workshops and conferences involving instructional, advising, and administrative personnel from the university, community colleges, and other institutions;
- For more information, visit the Transfer and Transition Services website at http://transfer.sdes.ucf.edu.

Orientation Services
Director: Joe Ritchie; PH 218; 407-823-5105
www.orientation.sdes.ucf.edu

The orientation program (combining pre-enrollment orientation with extended first year transition programs for academic credit) assists entering freshmen and transfer students with their transition to the University of Central Florida by providing information about student services, campus life, academic support, academic advising, and registration. Every freshman and transfer student is required to attend an orientation session prior to registering for classes.

Students register for the program and get further information by visiting the Orientation Services website at http://orientation.sdes.ucf.edu

Career Services & Experiential Learning (CSEL)
Executive Director, Melanie Parker; FC; 407-823-2361 (Career Services) 407-823-2667 (Experiential Learning) http://www.csel.ucf.edu

Career Services & Experiential Learning (CSEL) offers a comprehensive range of services to help UCF students of any major reach their academic and career goals with a talented staff of career and experiential learning specialists. These comprehensive services are designed to help First Year through Graduate students with all phases of career development and applied learning experiences to include:

- Major and Career Choices
- Academic and Career Information
- Experiential Learning Opportunities (Co-op, Internships, Service Learning)
- Resumes and Cover Letters
- Interviewing Skills
- Job Search Strategies
- Employment Assistance (Career Fairs, On-Campus Recruiting, Job Postings and Resume Referrals)
- Graduate School Information

These programs and services are available through walk-in assistance, scheduled appointments, workshops, and major events.

Counseling Center
Director: TBA.; CC; 407-823-2811 http://www.counseling.sdes.ucf.edu

The Counseling Center serves UCF enrolled students who seek assistance with developmental and mental-health related concerns and the broader campus community by offering a wide variety of programs in direct support of the university mission. The Center is composed of a professional staff of licensed (or license-eligible) psychologists, mental health counselors and social workers who provide a confidential atmosphere and a safe environment in which students may explore and resolve issues of concern. The Center also provides advanced training and supervision for graduate students in counseling. The Center is open Monday through Friday. Services offered by the Center include:

- Short-Term Individual Counseling
- Group Counseling and Workshops
- Crisis Intervention
- Couples Counseling
- Professional Consultation
- Outreach and Presentations
- Referral

For additional information, visit the Counseling Center website at http://www.counseling.sdes.ucf.edu

Registrar's Office
University Registrar: Dennis J. Duliniak; MH 161 407-823-3100 Registration HelpLine: 407-823-3533 E-mail: registrar@mail.ucf.edu; website: http://www.registrar.ucf.edu

The Registrar's Office, with a commitment to quality service and leading edge technology, provides timely and accurate enrollment information and access for students, colleges and departments, effectively meets student administrative needs, ensures complete records management from registration through graduation and archived data stores. The office maintains the integrity of student permanent academic records and coordinates and enforces University policies and procedures campus-wide through cooperation, communication, and leadership. The Registrar's Office is responsible for management and publication of course offerings, the Undergraduate Catalog, online Schedule Web Guide, the efficient utilization of classroom resources, residency reclassifications, student veteran services, and Commencements.

Veteran Services
Assistant University Registrar: H. Lee Parker; MH 161; 407-823-2707; http://www.va.sdes.ucf.edu

Veteran Services serves all veteran students and eligible dependents who are using VA educational benefits to further their education. The office provides information concerning entitlements, filing claims to the Department of Veterans Affairs (DVA), certifying enrollment at the University, and deferring tuition and fee payments. The office also provides related counseling for personal and academic concerns and referral to various community agencies. Veterans and eligible dependents must be certified through Veteran Services each term to receive VA educational benefits. The office monitors the academic progress of all those receiving VA educational benefits. All veterans and eligible dependents are urged to consult Veteran Services early in the UCF admissions process.

Students eligible for VA educational benefits must certify each term with Veteran Services after they enroll for classes. To maintain eligibility for VA education benefits, students must adhere to the policies and procedures for VA educational benefits. A copy of the "Student Veteran Handbook" can be obtained on the Veteran Services website. UCF, being a member of SOC (Service Members Opportunity College) provides credit for military training and education. Credit is awarded for regionally accredited schools and courses only. Transfer credit is not awarded for experience, military skills level and/or special certifications. In addition, no credit is awarded for Basic Military Training. Transfer credit is awarded per the recommendations of the American Council on Education (ACE) Guide, based upon courses and/or training listed on the DD Form 214, SMARTS, ARTS, or other official military records. U.S. Air Force veterans must coordinate with the Community College of the Air Force to provide official CCAF transcripts to the Undergraduate Admissions Office.

Students eligible for VA educational benefits may also be eligible for a VA deferment of tuition and fees. The VA Deferment due date is contained in the “Academic Calendar.” Students eligible for financial aid adequate to cover tuition and fees are not eligible for this deferment. For Fall and Spring semesters, undergraduates must carry at least 12 credit hours for full-time VA benefits, 9-11 credit hours for three-quarter time benefits, and 6-8 credit hours for half-time benefits.

Five credit hours or less will be reimbursed at the cost of tuition and fees or quarter-time depending on VA Chapter. Check with Veterans Services for Summer term course load requirements.

Students currently enrolled at UCF and another institution may receive VA educational benefits, but first must complete the appropriate Transient Form and consult with Veteran Services. Veterans and eligible dependents who desire to change their major, or pursue a dual major, dual degree, or who add a minor may receive VA educational benefits but must obtain approval from DVA before taking any of the applicable courses. This includes a minor in military science. NOTE: some majors may have extra elective hours that can be used for courses for a minor or another major.

To continue to be able to receive VA educational benefits, students must maintain satisfactory academic progress and conduct. Accordingly benefits will be terminated for individuals who are disqualified, excluded, suspended, or expelled from the University. If reinstated by the University following disqualification, exclusion, suspension, or expulsion, the veteran or eligible dependent must contact Veteran Services to have their VA educational benefits re-activated.
Individuals placed on academic probation will continue to receive benefits as long as he or she earns a 2.0 or higher GPA each term. For students who fail to maintain satisfactory academic progress, benefits will be terminated once the required credit hours of course work for the program of study have been completed, regardless of the GPA or eligibility for graduation. Veterans and eligible dependents also may draw VA benefits during the periods of eligibility while on Cooperative Education assignments. Payment is received during both the on-campus and off-campus work terms. Contact Veterans Services for more specific benefit information on Cooperative Education.

**Student Disability Services (SDS)**
**Director:** Philip Kalfin; FC 132; 407-823-2371
http://www.sds.sdes.ucf.edu

The Office of Student Disability Services provides information and individualized accommodations consistent with the student’s documented disability. Such accommodations may include, but are not limited to, assistance with classroom accommodations (including examination accommodations), assistance with course registration, and information and referral to campus and community services for students with disabilities.

To be eligible for disability-related accommodations, students must have a documented disability as defined by applicable federal and state laws. Accommodations are available to students whose disabilities include, but are not limited to, attention-deficit hyperactivity disorder, deaf and hard-of-hearing, physical disability and/or health-related impairment, psychological and/or psychiatric disability, specific learning disability (such as dyslexia), speech impairment, visual impairment, or other disabilities requiring administrative or academic accommodations. Students seeking accommodations are required to provide recent documentation from an appropriate health care provider or professional.

If a student needs special admission consideration based on a disability, the student should answer this question on the Application for Admission form and send the requested appropriate documentation to the Undergraduate Admissions Office.

After admission to the University, students who have a disability that may require disability accommodations must contact Student Disability Services for an intake interview to be eligible to receive disability accommodations. The student will be required to provide disability documentation during the intake interview at Student Disability Services. All information is confidential and will be used only to assist the student. A Text Telephone (TTY)/Telecommunication Device for the Deaf (TDD) is available for deaf/hard-of-hearing or speech-impaired persons with TTYs/TDDs to contact Student Disability Services (TTY/TDD calls only phone 407-823-2116).

**Administrative Services**
**Associate Vice President:** Sharon Ekern; MH 282; 407-823-3167
http://www.admin.sdes.ucf.edu

**Budgets and Personnel Support**
**Director:** David L. Pavlonnis; MH 282; 407-823-1045
http://www.asfbusinessoffice.ucf.edu

**Activity and Service Fee Business Office**
**Director:** Joseph Scarro; SU 215; 407-823-5548
http://www.asfbusinessoffice.ucf.edu

The Activity & Service Fee Business Office provides a variety of services to UCF students. The office processes purchase requests for most Activity & Service Fee Agencies and all Student Government allocations. We provide financial training workshops to student organization officers and their faculty/staff advisors. The office also provides a variety of equipment for check out to any student free of charge.

In addition, our office manages the operations of the Student Government Computer Lab, which is located in SU 208. The Student Government Computer Lab has 41 computer stations available and is the only lab that provides FREE printing to currently enrolled students. Our office also manages the Student Government Ticket Center which sells a variety of discounted tickets to local amusement parks and movie theaters, and is also an authorized TicketMaster Retail Outlet.

**Alcohol and Other Drug Prevention Programming**
**Director:** Tom Hall; Counseling Center; 407-823-0879
http://www.aod.sdes.ucf.edu

The Alcohol and Other Drug Prevention (AOD) Programming Office offers a wide variety of services, including education, prevention, alcohol and other drug assessment/evaluation, short term intervention, counseling, and referrals. The AOD Office partners with other campus and community programs to create a healthy environment for students to study, work and play. Programs, activities and support services are provided to students to encourage low risk, responsible choices; ones that will optimize their personal and academic success and enhance their time at UCF.

Additionally, this office serves as an umbrella for the Real Project Peer Education Program.

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, 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 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.

The sale, service, possession and consumption of alcoholic beverages shall comply with state and federal laws, city and county ordinances, and the licensing agreement with on-campus distributors which allows for the sale and service of alcoholic beverages. In addition the University has formulated the following policies governing the sale, service, possession, and consumption of alcoholic beverages on campus. For Alcohol/Drug Policy, visit www.goldenrule.sdes.ucf.edu/14_Drug-Free.html.

**Creative School for Children**
**Director:** Marcia Diebler; CSC; 407-823-2726
http://www.csc.sdes.ucf.edu

The Creative School for Children is the Educational Research Center for Child Development and provides an early experience educational program for children ages 2-5 years old. The daily program is planned and conducted by degreed teachers. The program provides a wide variety of experiences in art, music, language, motor skills, science, math, social studies, perceptual development, socialization, and self-discovery. Planned and spontaneous field trips and special family programs are part of the yearly schedule. Experiences in observation and training in academic areas also are made available to University students. Opportunities for educational research are available to university faculty and graduate students. The school enrolls children of University students, faculty, and staff. Operating hours are 7:45 a.m. to 5:15 p.m., Monday through Friday.

**REACH Health and Peer Education Program**
**Coordinator:** Keri Nola; LS 716; 407-823-5457

The REACH Health and Peer Education Program provides a wide array of programs, activities, classes, and events designed to give students the current information they need to make low risk and responsible choices concerning college health related issues. Professional peer health educators encourage healthy living and lifestyle choices. Services at REACH include HIV/AIDS confidential and anonymous needle free testing, which includes pre and post test counseling, a sexual health risk assessment and education. We also offer a three hour elective credit course, HLP 2701, which is full of fun and useful information, and can lead to becoming a paid “peer educator.” Additionally, the ADAPT (Alcohol and Drug Awareness Prevention Training) class is available for students who have violated campus alcohol and other drug policies and/or have gotten into alcohol and other drug difficulty with law enforcement. We strive to help students make the most of their college experience.

**Assessment and Planning**
**Director:** Ronald H. Atwell; MH 282; 407-823-2628
http://www.assess.sdes.ucf.edu

This office provides the Vice President and units of Student
Development and Enrollment Services assistance in assessment, research and planning functions. The office also is responsible for the development of division-wide publications.

**Campus Life**

**Associate Vice President:** Craig E. Ullom; SU 304; 407-823-2626

http://www.campuslife.sdes.ucf.edu

The Campus Life unit develops partnerships to provide meaningful programs, quality services, and personal growth opportunities for students in learning environments. Campus Life promotes personal excellence, healthy lifestyles, leadership development, and community responsibility. Departments in Campus Life include: Student Leadership Programs, LEAD Scholars Program, Greek Affairs, Office of Student Involvement, Campus Faiths and Ministries, Student Union, Recreation and Wellness Center and Intramural Sports, Student Rights and Responsibilities, Student Conduct, Dispute Resolution Services, Student Legal Services, Student Health Services, Housing and Residence Life, LINK First Year Experience, Affiliated Housing, Creative School for Children, Multicultural Academic and Support Services, Rosen College of Hospitality Management Campus Life, Off-Campus Student Services and Regional Campuses.

**Housing and Residence Life**

**Director:** Christi Hartzler; HAB 101; 407-823-4663

http://www.housing.ucf.edu

Regularly enrolled single students paying registration fees for a minimum of nine semester hours may apply for on-campus University-owned housing. The residential communities - Apollo, Libra, Lake Claire Courtyard Apartments, Nike, Hercules, and the Convocation Center Apartments - house approximately 4,300 students. On-campus residence halls offer double occupancy rooms with a shared bath in suite-style configurations. Single rooms with shared bath are available in the apartment facilities. Because of the limited amount of space, the University does not have a mandatory housing requirement. No on-campus accommodations are available for families or married couples.

Apartment-style housing is available at the Rosen College of Hospitality Management. Hospitality Management majors who attend classes at the Rosen College may utilize the 392 bed facility that is adjacent to the college.

Approximately 3,100 beds are reserved for new, incoming freshmen in specific facilities. Current residents occupy most of the remaining space. Applications for housing can be accepted only from those who have been admitted into the University. Therefore, those desiring to reside on campus should apply for admission to the University as soon as possible. On-campus housing cannot be offered to all incoming freshmen due to limited capacity.

Priority for room assignment for a new applicant is based on the date of receipt of the completed housing application. Applicants should read the housing application carefully before submitting the completed application with the appropriate pre-payment to the Department of Housing and Residence Life.

The housing academic term contract, when issued for the fall semester, is a two-semester obligation (fall and spring semesters). Summer session contracts are for the summer only and do not extend to include the fall semester. The Rosen College of Hospitality Management Departments and the Convocation Center Apartments are annual contracts.


Applicants have the option of choosing one of several University meal plans. Specific information concerning University meal plans is available from UCF Dining Services, UCF PO Box 168017, Orlando, Florida, 32816. Web site: www.ucfdining.com.

**Fraternity and Sorority Life**

**Interim Director:** Belinda Boston; SU 154; 407-823-2072; (Greek Council Office, SU 154, 407-823-2072)

http://www.greeklife.sdes.ucf.edu

The Fraternity and Sorority Life office is committed to providing the best possible fraternity and sorority experience for both students and the University community. This office fosters and promotes the development of national fraternities and sororities by providing advice, services, and programs to ensure all members engage in high-quality undergraduate fraternal experiences that reinforce the organization’s founding principles: scholarship, community service, campus involvement, and sisterhood/brotherhood. It encompasses small group living and more importantly, developmental programming for individuals, chapters, chapter alumni boards, house corporation officers, and collegiate governing boards (i.e., Panhellenic Council, Interfraternity Council (IFC), National Pan-Hellenic Council (NPHC), Diversified Greek Council (DGC), and the Greek Council).

Sorority or fraternity life can offer students a “home away from home,” a source of job contacts, a scholarly support system, an organization for community service, hands-on experience in running a working entity, and a foundation for long-lasting friendships. Currently, 43 fraternities and sororities involve more than 3,100 students. Greek organizations give college men and women a chance to excel in any area they choose and include students of every race, religion, culture, and background.

Students are encouraged to take a closer look at UCF’s Greek System through a participating in recruitment. The Interfraternity Council and Panhellenic Council sponsor “Recruitment” or “Rush,” which actually consists of visiting the various chapters to meet current members and to ask questions about their organizations. Diversified Greek Council (DGC) sponsors Meet the Greeks and the National Pan-Hellenic Council (NPHC) sponsors a Greek Expo, which allow students to become familiar with those groups comprising that governing body. Whether or not an individual chooses to join a fraternity or sorority, Recruitment, Greek Expo and Meet the Greeks are excellent ways to meet people and become acquainted with life at the University of Central Florida. Learn more about fraternities and sororities by visiting our website at: http://www.greeklife.sdes.ucf.edu.

**LINK - First Year Experience Program**

**Assistant Director of Housing and Residence Life:** Jeff Novak

**Jaclyn Bayer: Coordinator**


Learning and Interacting with New Knights (LINK) is a first-year experience program designed to assist first-time-in-college students with their transition to UCF by connecting them to the campus community through educational programming and activities. The main focus of the LINK Program is to get New Knights out having fun, meeting people, and getting connected to UCF. Through LINK, New Knights will be exposed to experiences that will enhance their academic experience and overall success and satisfaction at UCF.

The LINK Program works with various UCF student support departments and programs to identify educational programs that New Knights should be participating in throughout their first year. These co-curricular programs complement the in-class academic experience and help first-year students develop the skills necessary to be successful in college. The LINK Program packages these educational programs under the LINK name and promotes them to first-year students in such a way to encourage their active participation.

As an incentive to encourage first-year students to participate in these educational programs, New Knights receive points for every LINK program in which they participate. These points are known as LINK Loyalty Points. First-year students can acquire LINK Loyalty points by participating in a LINK Program. New Knights receive LINK Loyalty points by either swiping their UCF ID card or signing their name on an attendance sheet at beginning or end of each LINK program. First-year students can use their LINK Loyalty points to bid on prizes at the LINK Auction event. The LINK Auction is held at the end of each fall and spring semester. A complete list of prizes is located on the LINK website at www.lnk.ucf.edu.

**Off-Campus Student Services (OCSS)**

**Assistant Vice President and Director:** Jimmy Watson; HAB 101; 407-823-6505; http://www.housing.ucf.edu/ocssrc

Off-Campus Student Services assists students in their search for off-campus housing accommodations. The OCSS provides listings of off-campus apartments and/or resources for students needing to find roommates, storage, sublease, transportation, and furniture rental information.

Off-Campus Student Services also provides UCF students who live off-campus with information regarding a variety of on-campus programs and services. The OCSS fosters a supportive environment for off-campus students by providing an advocacy for resolving problems, “on the spot” or through campus referrals, and exploring other available resources for students. Students are encouraged to utilize
the services offered by the Off-Campus Student Services Office, and to become acquainted with the many benefits the campus has to offer.

UCF Regional Student Services

Assistant Vice-President and Director: A.J. Range

Interim Director, Student Region Campus Life: Jim Smith

Director, Eastern Region Campus Life: Diana L. Weidman

The UCF Southern Region (Cocoa; 321-433-7950 or 321-433-7811) and UCF Eastern Region (Daytona; 386-255-7423) Campus Life offices provide student services at the regional campuses, including: transfer and virtual orientation, career services, veteran services, international student services, and accommodations for students with disabilities. In addition, the offices provide programming and assistance to clubs and organizations as well as various standardized test information.

Student Government

Assistant Directors of OSI/SGA Advisors: Shane Juntunen & Christa Coffey; SU 214; 407-823-2191

http://www.sga.ucf.edu

Student Government’s purpose is to represent student views on issues affecting UCF and to promote progressive changes that improve campus life. In advocating better communication and understanding among the UCF family, Student Government also provides numerous services that affect student life. These services currently include computer labs, discount tickets to movie theaters and theme parks, free local calling on campus telephones, funding for legal services, recreational services and Campus Activities Board programming. Money allocated by Student Government for these services comes from activity and service fees that students pay during registration. Additionally, UCF clubs and organizations may receive funding for events, projects and travel to conventions. SG coordinates its efforts with the Florida Student Association in lobbying for students’ rights on local, state and national government levels.

Student Government’s structure is modeled closely after the United States federal government system in that it contains three branches: executive, legislative, and judicial. The executive branch, composed of the Student Body President, Vice President, and staff, oversees the daily administrative operation of Student Government. The legislative branch funds campus clubs and organizations and also passes bills and resolutions benefiting the student body. The judicial branch oversees hearings concerning constitutional and legislative issues.

All students are encouraged to take an active role in Student Government. For information outlining how to become involved with SG or how your club or organization can receive funding, contact the Student Government Association offices.

Health Services

Director: Robert Faust; 407-823-2701

http://www.shs.ucf.edu

Recognizing the importance of lifestyle in health and the prevention of disease, Student Health Services combines quality care for illness and accidents with an aggressive health education and lifestyle enhancement program. A Student Wellness Advocate Team (SWAT) enhances the health promotion efforts of the Wellness Center.

The Student Health Center is staffed by physicians, advanced registered nurse practitioners, physician assistants, registered nurses, pharmacists, and a full complement of other medical support personnel. Full referral service to Orlando specialists is established.

Each health fee paying student is entitled to the benefits provided through Student Health Services, which are outlined in printed material available from the Student Health Center or on its website, www.shs.ucf.edu. Most office consultations and programs are provided without additional costs. Laboratory tests, x-rays, medications, and some supplies require additional but significantly reduced payments, which may be made with cash, check, credit card, personal check, or charged to the student’s account.

Optional health and accident insurance may be purchased by response to the mailers or by contacting the Office of Student Development and Enrollment Services, Student Government, or the Health Center Business Office (at 407-823-2500). Please note that optional health and accident insurance is not part of the Student Health Services program, but is designed to provide for health coverage needs that are beyond the scope of Student Health Services, such as hospital referrals. Charges incurred outside the Student Health Center are the responsibility of the student.

Confidential testing for HIV (AIDS virus) is offered by the Student Health Center and a program for anonymous testing is available elsewhere by calling the REACH HIV AIDS Education Office at UCF-AIDS (407-823-2437). Information concerning these programs may be obtained through the Student Health Center (407-823-2701) during regular hours.

When the Student Health Center is closed, students may obtain information and help from the Health Center telephone message, its website (see above) or, if the situation is urgent, by calling the UCF Police Department.

Student Leadership Programs

Director: Gary Morgan-Muskin; SU 207; 407-823-2223

http://www.slp.sdes.ucf.edu

Student Leadership Programs serves as an umbrella organization to address leadership education and development issues. It is composed of a team of four offices within Campus Life: LEAD Scholars Program, Greek Affairs, Rosen School Campus Life, and Campus Faiths and Ministries. The director of Student Leadership Programs provides administrative oversight.

The primary vision for the area is the development of an intentional and comprehensive leadership development program that targets specific groups and provides campus-wide opportunities for students regardless of their class standing and/or level of involvement experience. The programs and activities will address both the short and long term developmental needs of students. Programs will vary in duration from a one-day workshop to an extended program that may involve weeks or months. The focus is to provide a variety of programmed options that recognize students have different needs, time constraints, and levels of interest.

LEAD Scholars Program

Director: Gary Morgan; SU 208; 407-823-2223

http://www.lead.sdes.ucf.edu

The LEAD (Leadership Enrichment and Academic Development) Scholars Program is an intense and comprehensive two-year student development program for competitively selected, academically talented first year college students with experience and interest in leadership, academic excellence, and community service. LEAD Scholars join in a unique partnership with faculty, staff, and alumni community leaders as a way to make an immediate connection with academic and community life.

The general goal of the LEAD Scholars Program is to prepare students to be effective community leaders in personal, professional, and civic communities. This goal is achieved through three venues: academic excellence, leadership, and community service. Students are integrated with faculty in the five colleges of Arts and Sciences, Business Administration, Education, Engineering and Computer Science, and Health and Public Affairs. Each of these colleges hosts two credit Foundations of Leadership courses providing the primary means of facilitating the focus for study, advisement, and educational activities as it relates to leadership, academic excellence, and community service within the college. Although LEAD Scholars will identify with a particular college, the program is available to students deciding upon their major academic interest as well as those who have settled upon a major. Sophomore students may take a leadership practicum in lieu of a class.

This program enables students to develop professionally through a special mentoring relationship involving research and/or project development in their area of interest both on campus and in the community. Students are provided opportunities to work on project teams and special programs to develop their leadership skills. Specially structured community service projects are provided for students to enhance their community service development.

Students are selected for this two year program through a competitive process based on academic record, extracurricular and community activities, school recommendation, and expressed interest in leadership, academic excellence, and community service. The LEAD Scholars Program serves as a bridge for participation in leadership opportunities as upper division students and in future community leadership roles.

Rosen College of Hospitality Management Campus Life

Director: Tony Perry

9907 Universal Blvd., Suite 201L

407-903-8072
Division Of Student Development And Enrollment Services

Student’s campus life needs are met on the new Rosen College of Management Hospitality campus through the Student Administrative Services Office, Suite 201. Staffing and services provided through this office include: undergraduate and graduate student advising, student financial assistance, co-op planning and placement, career services, student club and organization support, student counseling, student disability services, off-campus student housing information, student activities programming guidance and support, and UCF Golden Rule interpretation.

Campus Faiths and Ministries
Director: Brad Crawford; RS 102; 407-823-5337 http://www.ucm.sdes.ucf.edu

The Campus Faiths and Ministries program is a combined effort of a wide variety of religious faiths and denominations providing students with professional personnel who will encourage spiritual, moral, and social opportunities in a spiritual context within the University community. In addition to mission and service opportunities, Campus Faiths and Ministries offers counseling, scripture study, public lecture and discussion programs, fellowship, recreation, and worship services.

Student Rights and Responsibilities
Assistant Vice President and Director: Patricia A. MacKown
FC 155; 407-823-6960; http://www.osrr.sdes.ucf.edu

By offering a wide range of services designed to assist as well as educate students in resolving their disputes, the Office of Student Rights and Responsibilities (OSRR) combines Student Legal Services, Dispute Resolution Services, and the Office of Student Conduct. OSRR provides a forum that contributes to the individual growth and development of the student’s knowledge of community responsibilities, due process, conflict resolution skills, and University student conduct rules. Our resources are more effectively used by combining and referring within the judicial knowledge base that exists within these three services.

Dispute Resolution Services
Coordinator: Patty Farris; FC 150; 407-823-3477
http://www.drs.sdes.ucf.edu

Dispute Resolution Services enhances the University community by offering mediation training and services directed at resolving interpersonal disputes within the University and helping students in resolving individual responsibility. Mediation is a private, voluntary, decision-making process in which one or more impartial persons (mediators) assist people, organizations, and communities in conflict to work toward a variety of goals. This service is available to the University community and is encouraged for those who have been unsuccessful in resolving their differences. Mediation training is conducted several times each semester and is offered at two different levels: 1) a basic introduction to conflict resolution skills and mediation techniques session; and 2) as an advanced mediation techniques session. Mediation services are provided to students, faculty, and staff at no charge. Mediation training is provided to students at no charge, and to faculty and staff at cost. Dispute Resolution Services also offers educational workshops and outreach programs to foster understanding and promote harmony within the University community.

Student Conduct
Assistant Director: Dana Juntunen
FC 154; 407-823-2851 http://www.osc.sdes.ucf.edu

The Office of Student Conduct addresses alleged violations of the “Rules of Conduct” contained within the student handbook, The Golden Rule. This office is also responsible for advising students of their rights during the Student Conduct Review Process, dean’s certification, and student eligibility checks. The Office of Student Conduct annually publishes the student handbook, The Golden Rule, which contains more detailed information on student life. Copies may be obtained at SRC 154, or may be viewed on the web at http://www.goldenrule.sdes.ucf.edu. Students are urged to take advantage of the many services and educational programs available through the Office of Student Conduct and the Office of Student Rights and Responsibilities.

Student Legal Services
Director: Patricia A. MacKown; FC 155; 407-823-2538 http://www.stulegal.sdes.ucf.edu

Student Legal Services provides students with advice and consultation, including court representation, in selected areas of law such as landlord/tenant, consumer, simple wills, traffic, and criminal. Each eligible student (i.e., an undergraduate or graduate student currently enrolled in UCF) is entitled to consult free of charge with a Program Attorney about any legal matter not excluded by program guidelines. Students in need of legal services should contact Student Legal Services at 407-823-2538, or visit Student Resource Center Room 155. This service is by appointment only and no legal advice is given over the phone.

Office of Student Involvement
Director: Kerry Welch; SU 208; 407-823-6471 http://www.GetInvolvedUCF.com

The mission of the Office of Student Involvement (OSI) is to provide quality programs, services, and leadership opportunities that enrich students’ academic endeavors. Students and staff collaborate to explore various paths that encourage personal growth, promote civic responsibility, embrace differences, and connect students to the campus and the community. In OSI, the journey is the destination.

Toward this end, the Office of Student Involvement staff members oversee the registration and management of almost 400 registered student organizations (RSO’s) as well as directly advising and coordinating the following student groups: Campus Activities Board (CAB), Fraternity and Sorority Life, Homecoming, Knights of the RoundTable (KoRT), Late Knights, Multicultural Student Center (MSC), Student Government Association (SGA), and Volunteer UCF (VUCF).

Recreation and Wellness Center
Director: William Ehling; RWC; 407-823-2408 http://www.rec.ucf.edu

The Recreation and Wellness Center offers cardiovascular training equipment, weight training equipment, group exercise rooms, basketball courts, an indoor track, sand volleyball courts, a swimming pool, and a climbing tower. The UCF Campus Wellness Center, also housed with Rec, sponsors a wide variety of health-related classes, lessons, and programs throughout the year. Playing fields and tennis courts adjacent to the building are available to students when not in use for scheduled events. The Recreation and Wellness Center is open to all students with a valid UCF ID. Memberships are available for non-students.

The Recreation and Wellness Center staff also operate the Lake Claire recreation area, located just north of Greek Row. Lake Claire offers picnic facilities, watercraft, and a nature trail. The facilities can be reserved for group activities by calling 407-823-5011.

Intramural Sports
Associate Director: Jim Wilkening; Recreation and Wellness Center; 407-823-2408; http://www.imsports.ucf.edu

The Intramural Sports program offers the opportunity to participate in more than fifty action-filled team, dual, and individual sports, including perennial favorites flag football, basketball, soccer, and floor hockey. Several competition divisions are offered to accommodate various skill levels.

A unique aspect of the UCF program is referee development, in which students can be trained to officiate sports, earn money on campus, and have an opportunity to work in the Orlando community. To sign up for a team, as an individual, or for more information, visit http://www.imsports.ucf.edu or call 407-823-2408. Get involved and remember to take a little time each day to play.

Student Union
Director: Suzanne Halpin; SU 312; 407-823-2117 http://www.studentunion.ucf.edu

The Student Union is the meeting place on campus and provides the campus community with a variety of meeting places, offices, programs, and services. The Union is home to a great variety of restaurants including Joffrey’s Coffee, Smoothie King, Steak Escape, Uncle Al’s Famous Hotdogs, Subway, Sbarro, Baja Burrito Kitchen, Mrs. Field’s, Pretzel Time, Wackadoos’s Grub and Brew along with a new restaurant to be announced later. Retail stores include Park Avenue CD’s, Greek Unique, KnightStop Convenience Store, College Optical, and the UCF Computer Store. Other services located in the Union are the SGA Ticket Center, U.S. Postal Center, Kaplan Test Services, and ATM’s from SunTrust, Bank of America, and the UCF Credit Union. For information, call 407-823-0001.
Undergraduate Admissions

Assistant Vice President: Gordon D. Chavis, Jr., J.D.
Progress Energy University Welcome Center
407-823-3000; email: admission@mail.ucf.edu;
http://www.admissions.sdes.ucf.edu

The Office of Undergraduate Admissions at the University of Central Florida coordinates the admission and enrollment of all undergraduate first-time-in-college, transfer, non-degree, and non-Florida state university transient students to the Orlando, Daytona, South Lake and Cocoa campuses. The office's primary mission is to identify, attract, and enroll talented, diverse, and academically qualified students who will contribute to, achieve growth and success at, and benefit from attending the University of Central Florida.

The Office of Undergraduate Admissions seeks to attract students who are motivated, creative, and committed to academic excellence. The office will accomplish this through personal contacts, strategic communication, information management, and targeted recruitment. The office is dedicated to providing quality customer service through effective teamwork and through the development of collaborative partnerships with both internal and external communities.

The office administers several programs for prospective students and parents, including daily tours and information sessions, open houses, area receptions for admitted students, and high school and community college visits by admission counselors. It also provides the opportunity to meet one-on-one with an admission counselor on campus. Please contact the office at 407-823-3000 or visit our website for further information. Office hours are: Monday/Thursday 9:00 a.m. to 7:00 p.m., Tuesday/Wednesday/ Friday 9:00 a.m. to 5:00 p.m.

Campus Visit Experience

Information sessions and campus tours are available through our “campus visit experience”. All freshmen (ftic) and transfer prospective students and their families are encouraged to participate. The Campus Visit Experience, which includes both an information session and tour of the campus, begins at the University Welcome Center at 10:00 a.m. and 2:00 p.m., Monday through Friday, except holidays. Reservations are encouraged and can be made by visiting our website at www.admissions.sdes.ucf.edu. Group tours of up to 80 or special requests may be accommodated and can be requested by visiting our website.

Meetings with admissions counselors to discuss your particular concerns about admission to the University are available by appointment. You may contact the admissions office at 407-823-3000 or visit us at our website. Information sessions and campus tours are also available for students interested in our Rosen College of Hospitality Management. Please contact us at 407-903-8000 for further information.
Application for Admission
All interested applicants should complete the University of Central Florida “Undergraduate Admissions Application” and include the $30 in U.S. Currency, non-refundable application fee. Students may also apply online at our web site, http://www.admissions.sdes.ucf.edu.

Students should apply several months in advance of an anticipated start date. Mail application applications to: Undergraduate Admissions Office, University of Central Florida, P.O. Box 160111, Orlando, FL 32816-0111. Questions concerning admission requirements and applications should be forwarded to the same address or by calling 407-823-3000.

Applications for admission can be submitted up to several months prior to the start of the term desired. The priority application deadlines are May 1 for the Fall semester (July 1 for Transfer students), November 1 for the Spring semester, and March 1 for the Summer term. The priority deadline for most financial assistance and scholarship is March 1. Information and an application for University housing are mailed at the time of admission to the University. Requests for housing are subsequently reviewed by date of the receipt of the housing application. The University encourages applications from qualified persons of both sexes and from all cultural, racial, religious, and ethnic groups. The University does not discriminate on the basis of disability for admission.

Applicants should understand that this Undergraduate Catalog outlines minimum requirements to be considered for admission and that admission to the University is selective. The satisfaction of minimum requirements does not guarantee admission. Conversely, Florida Department of Education policy allows the University to admit students to any semester as exceptions to the minimum requirements. The Undergraduate Admissions Office and the Admissions and Standards Committee are responsible for the admission of all undergraduate students under this exceptions policy. Applicants must request that official transcripts from each educational institution attended be forwarded directly to the Undergraduate Admissions Office. To be considered official, all supporting admissions documents must be received directly from the issuing institution or testing agency. All final supporting documents (official transcripts and test scores) must be received by Undergraduate Admissions no later than 10 days after the first day of classes.

Note: Furnishing false or fraudulent statements in connection with an application or an application or residency affidavit may result in disciplinary action, denial of admission, loss of financial aid, and invalidation of credits or degrees earned.

Those enrolled students who have not submitted official completed records by the deadline will be placed on administrative hold. Students with these incomplete records will not be permitted to register for a future term until all official transcripts and other required documentation have been received. If, upon review of final transcripts, student records are not satisfactory, they may be placed on academic probation, have their admission status revoked, changed to non-degree or transient status, may become ineligible for financial assistance, and may, in some cases, be withdrawn from the University. In addition to the required documentation mentioned above, students must have a satisfactory conduct record at all schools attended.

Reactivation
Students who have submitted an application for admission to UCF as a degree-seeking student and do not attend, may reactivate the original application within one year of the term for which they first applied. To update the application, students should request and complete a reactivation form by the published application deadline date. This form is available in the Undergraduate Admissions Office, online, or by calling 407-823-3000. This process reactivates the application only; additional official credentials may be required.

Admission for one term does not guarantee admission for a future term.

Limited Access Programs
Admission to the University does not guarantee admission to a limited access program. Some majors at the University limit the number of students who may enroll. Limited access status occurs when student demand exceeds available resources (e.g., faculty, instructional facilities, equipment or when spent) or when specific accrediting requirements apply. Criteria for admission are selective and include: indicators of ability and indicators of performance, creativity, or talent to complete required work within the program.

Orientation
All first-time undergraduate degree-seeking students are required to attend orientation prior to enrollment. Orientation information is mailed to all students offered admission to the University.

Admission Categories
Students may submit applications to the University for one of the following categories:
A. Freshman (First-Time-In-College: FTIC)
B. Dual Enrollment (includes early admission and dual enrollment, on- or off-campus)
C. Transfer
D. Second Bachelor’s Degree
E. Transient (one term enrollment only, not from a Florida public university)
F. Limited Non-Degree Seeking

Upper Division Transfer students may also apply to one of many regional campus sites. Please refer to the application.

Freshman Applicants
Any FTIC student who meets (DOE) minimum admission requirements is encouraged to submit an application. Meeting these minimum requirements does not guarantee admission. The University will do everything possible to admit all qualified applicants who apply by the priority deadline date. If the number of qualified applicants exceeds the number the University is permitted to enroll, admission will be on a selective basis. An applicant’s total high school record (including grades, test scores, educational objective, quality of courses completed, counselor recommendations, essay, and personal achievements and honors) will be considered in the selection process. The University reaffirms its Equal Educational Opportunity (EEO) commitments and seeks to increase diversity among the student body.

High School Diploma
Freshmen who are applying for admission to the University are required to have a high school diploma or a General Equivalency Diploma (GED).

Entrance Examination Scores
All applicants for admission must submit test scores from the Scholastic Aptitude Test (SAT I) or from the American College Test (ACT). In addition, any student whose native language is not English may be required to submit a Test of English as a Foreign Language (TOEFL) score.

High School Academic Units and Grade Point Average
All applicants must have earned a minimum number of high school academic units (year-long courses that are not remedial in nature) to be considered for admission. A grade point average (GPA) will be computed only on academic courses. Grades in International Baccalaureate, Advanced Placement (AP), (AICE), honors and dual enrollment courses will be given additional weight in the computation of the academic GPA. The high school academic unit requirements are as follows:

<table>
<thead>
<tr>
<th>Academic Subjects</th>
<th>Units Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>English (three of which must have included</td>
<td>4</td>
</tr>
<tr>
<td>substantial writing)</td>
<td></td>
</tr>
<tr>
<td>Mathematics (at or above the Algebra I level)</td>
<td>3</td>
</tr>
<tr>
<td>Natural Science (two of which must have included</td>
<td>3</td>
</tr>
<tr>
<td>substantial laboratory requirements)</td>
<td></td>
</tr>
<tr>
<td>Social Science (included: history, civics,</td>
<td>3</td>
</tr>
<tr>
<td>political science, economics, sociology, psychology,</td>
<td></td>
</tr>
<tr>
<td>and geography)</td>
<td></td>
</tr>
<tr>
<td>Foreign Language (both credits must be in the</td>
<td>2</td>
</tr>
<tr>
<td>same language)</td>
<td></td>
</tr>
<tr>
<td>Additional academic electives from the above five</td>
<td></td>
</tr>
<tr>
<td>subject areas and courses recommended by the Florida</td>
<td></td>
</tr>
<tr>
<td>Assn. of School Administrators, or other</td>
<td></td>
</tr>
<tr>
<td>groups, and courses recommended by the Articulation</td>
<td></td>
</tr>
<tr>
<td>Committee and approved by the Department of Education</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Units</td>
<td>18</td>
</tr>
</tbody>
</table>

Applicant Eligibility
All applicants must meet the following Department of Education (DOE) minimum eligibility index standards to be considered for Admission:

28
If the High School GPA is: | Minimum test scores must be:
---|---
| HS GPA | SAT or ACT |
2.0 | 1140 | 25 |
2.1 | 1110 | 24 |
2.2 | 1090 | 23 |
2.3 | 1060 | 22 |
2.4 | 1030 | 22 |
2.5 | 1010 | 21 |
2.6 | 1000 | 21 |
2.7 | 990 | 21 |
2.8 | 980 | 20 |
2.9 | 970 | 20 |
3.0 | * | *

* No minimum score required.

Each State university reserves the right under DOE rule (6C6.002) to establish admission criteria that exceed DOE minimums.

- Admission to the University is limited by space availability. The degree of competition for space depends on the number and qualifications of those who apply for admission. To increase the chance of admission, high school students should present credentials that are stronger than the minimum requirements for consideration as listed above. If the number of qualified applicants exceeds the number that the University is able to enroll, a waiting list will be established.
- A student applying for admission who does not meet established requirements may bring to the University other important attributes or special talents and may be admitted if, upon appeal and in the judgment of the Admissions and Standards Committee, the student can be expected to do successful academic work. The University will provide appropriate advising for each student admitted under this alternative.
- Students who have been enrolled in dual enrollment courses will be required to have a minimum “C” average (2.0 GPA) for all completed dual enrollment course work.
- A student must have two years of one foreign language in high school or the equivalent (minimum eight semester hours) at the post-secondary level, to be offered admission.

### Dual Enrollment Applicants

High School students who have demonstrated exceptional academic ability may be permitted to enroll as University students while completing their high school programs. There are three types of dual enrollment programs:

1. **Early Admission** is for students who have completed their junior year in high school and would like to enroll at the University as full-time students for their senior year of high school. Students must submit an application for admission by the published application deadline date. In addition, the following information is required:
   - official copy of high school transcript(s);
   - official copy of Scholastic Aptitude Test (SAT I) or American College Test (ACT);
   - written letter of recommendation from high school counselor or school district permission form;
   - written permission from parents or legal guardian.

2. **Dual Enrollment On-Campus** is for students who desire to dual enroll on a part-time basis, taking one or two courses on campus, while completing their high school course work. Students must submit an application for admission by the published application deadline date, as well as all items listed above. Additional documentation may be required.

3. **Dual Enrollment Off-Campus** is for students whose high schools sponsor on-site courses at specific high schools. Students earn both high school and college credit for successful completion of course work. Each respective high school selects students who are eligible to participate in these programs. Contact your high school guidance office for detailed information.

### Transfer Applicants

UCF welcomes transfer applications to the University. Students should submit either the University of Central Florida Undergraduate Admissions Application or apply online at [http://www.admissions.sdes.ucf.edu/underapplink.asp](http://www.admissions.sdes.ucf.edu/underapplink.asp), and arrange to have official transcripts sent from all colleges attended. The Undergraduate Admissions Office computes a grade point average (GPA) for each institution attended, as well as a cumulative GPA on all college courses attempted. This computation does recognize plus or minus grades effective Fall 2001, but only recognizes grade forgiveness when it is used as part of an awarded State articulated Associate in Science degree or an Associate in Arts degree from a Florida public community college or Florida public university.

Applicants must have a current minimum GPA of 2.5, and must have a cumulative minimum GPA of 2.5 and be in good standing as a degree seeking student at the last institution attended to be considered for admission to UCF. Meeting these minimum requirements does not guarantee admission.

Transfer students are required to complete, at least, 30 hours in residence at UCF to earn a bachelor’s degree. In addition, students must complete 48 hours in residence at UCF to be eligible to receive baccalaureate honors recognition at the time of graduation. Transfer students are encouraged to review the current edition of UCF’s “Transfer Counseling Manual” available in Florida public community college counseling offices. The manual provides the recommended community college course requirements for all majors as well as other helpful information.

### Transfer Applicants With Fewer Than 60 Credit Hours

All college transfer applicants with fewer than 60 semester hours of acceptable credit must minimally meet freshman high school unit entrance requirements, the high school academic GPA, and minimum SAT or ACT scores; have at least a 2.5 GPA on a 4.0 system for all college-level academic courses attempted; and be in good standing (minimum 2.0 GPA) and eligible to return as a degree-seeking student to the last institution attended. Meeting these minimum requirements does not guarantee admission.

**Transfer Applicants With an A.A. Degree From a Florida Public Institution**

Admission of Associate in Arts (A.A.) degree graduates from Florida public community colleges and Florida state universities will be governed by the Articulation Agreement between the state universities and public community colleges of Florida, as approved by the State Department of Education. The agreement states that except for limited access programs, admission as a junior to the upper division of the University shall be granted to any graduate of a state-approved Florida community college or State University System institution who transfers directly to UCF (see Rule 6A-10.024), who has completed the university parallel program; and who has received the Associate in Arts degree, which includes all of the following:

- At least 60 semester hours of academic work exclusive of occupational courses and basic required physical education courses;
- An approved general education program of at least 36 semester hours;
- A GPA of at least 2.0 on a 4.0 system for all college-level academic courses attempted. (Only the final grade received in courses repeated by the student shall be used in computing the average.); and
- One year of college instruction in a single foreign language. (This requirement applies to those students without the required two units of foreign language in high school.) Students who receive an Associate in Arts degree from a Florida public community college or university prior to September 1, 1989, but who have not met the foreign language requirement may be admitted to the University on a provisional basis.

Any student admitted without two years of one foreign language in high school or the equivalent (minimum eight semester hours) of such instruction at the post-secondary level, must satisfy the admission requirement prior to graduation. Florida Community College Associate in Arts graduates are guaranteed the following rights under the Statewide Articulation Agreement (State Board of Education Rule 6A-10.024):

1. Admission to one of the eleven state universities, except to “limited access” programs (programs that have additional admission requirements);
2. Acceptance of at least 60 credit hours by the state universities toward the baccalaureate degree;
3. Transfer of equivalent courses under the statewide Course Numbering System;
4. Acceptance by the state universities of credit earned in accelerated programs (e.g., CLEP, AP, PEP, Dual Enrollment, Early Admission, and International Baccalaureate);
5. No additional General Education Core requirements;
6. Advanced knowledge of selection criteria for limited access pro-
Undergraduate Admissions

7. Equal opportunity with native university students to enter limited programs; and

Should any guarantee be denied, students have the right of appeal through the Office of Undergraduate Admissions and the Admissions and Standards Committee.

Transfer Applicants - More Than 60 Hours, Have Not Received an A.A. Degree From a Florida Public Institution

Undergraduate transfer applicants who desire to be admitted as upper division students must have met, at least, all of the following requirements:

- A minimum of a 2.5 GPA and 60 semester hours of academic course work;
- The English and Mathematics requirements of the Gordon Rule; and
- A minimum of eight semester hours of college instruction in a single foreign language. This requirement applies to those students without the required two units of a single foreign language in high school.

Meeting these minimum requirements does not guarantee admission.

Second Bachelor's Degree Applicants

Second Bachelor’s Degree applications are processed by the Undergraduate Admissions Office or the Registrar’s Office. Guidelines for which office students should make application to are outlined as follows:

- Students who have never attended the University of Central Florida as a degree seeking undergraduate students must apply to the Undergraduate Admissions Office. Students should complete the regular undergraduate admissions application.
- Students who have attended the University of Central Florida as a degree-seeking undergraduate student should apply through the Registrar’s Office. These students complete the "Readmission Application” form.

Credits From a Previous Baccalaureate Degree

Graduates from other regionally-accredited four-year U.S. institutions who apply for admission to work toward a second undergraduate degree must meet the regular requirements of the University (as defined in the "Undergraduate Degree Requirements" section of this Undergraduate Catalog). Students must meet all transfer GPA requirements. A baccalaureate degree or higher from another accredited four-year U.S. institution satisfies the General Education Program requirements and also provides exemption from the foreign language requirements for admission and graduation.

Transient Student Applicants

A student in good standing with a minimum 2.0 GPA at the last regionally-accredited institution attended who desires to enroll for one term at UCF may be considered for admission as a transient student. Such enrollment terminates at the end of one term and does not presuppose regular admission to the University. A transient student must submit an official transcript from the last institution attended.

Transient student applications must be received by the appropriate application deadline. If a student’s last school of attendance is a Florida public university, please refer to the “SUS Transient Students” section of this Undergraduate Catalog. Transient students are not eligible to receive financial aid. Registration is permitted on a space-available basis. Meeting minimum GPA requirements does not guarantee admission.

Limited Non-Degree Seeking Applicants

This classification allows a student to enroll in selected courses when the student may have no immediate intention of pursuing a degree program. Most opportunities in this status will occur away from the Orlando campus, for courses that are taught out of the regular semester or term cycle, or for special programs mandated by the State of Florida. Successful completion of courses while in this classification does not provide a basis for regular admission at a later date.

Programs using the Limited Non-Degree Seeking status include:

- High school dual enrollment
- Soldiers-to-scholars
- Continuing education
- Regional campuses
- Off-campus credit
- Teacher certification or re-certification

Students registering for classes in the Limited Non-Degree Seeking status are subject to the following regulations:

1. Students are required to provide evidence of their educational qualifications for attending classes in order to meet the intent of this enrollment classification;
2. Students who have been previously denied admission or disqualified for enrollment are not eligible;
3. Non-degree-seeking students are subject to the same rules and regulations as degree-seeking students;
4. Registration is permitted on a space-available basis;
5. A maximum of 15 undergraduate semester hours or 6 graduate semester hours may be earned as a limited non-degree seeking student;
6. International students may not register as non-degree-seeking since immigration regulations prevent foreign nationals from enrolling without admission to a degree or certificate program;
7. Limited Non-Degree students are not eligible to receive financial aid or to participate in intercollegiate sports; and,
8. Students must complete a Limited Non-Degree Seeking Status Registration Form.

Students registering in this category should be aware of the limitations of this status, and are encouraged to apply for regular admission to the University.

International Applicants

The University of Central Florida is authorized under federal law to enroll students on non-immigrant visas. All international candidates applying for admission to UCF must submit a University of Central Florida "Undergraduate Admissions Application," or apply online at http://www.admissions.sdes.ucf.edu/underapplink.asp. Because of additional processing time needed for non-immigrant students joining UCF on F-1 or J-1 Visas, those students should submit the application and all required academic documentation by the international admissions deadlines. These students must also complete and submit the required financial and immigration documents by the deadline. The deadlines for Fall semester are February 1 (for students abroad) and March 1 (for transfer students); for Spring semester, July 1 (for student abroad) and September 1 (for transfer students). The University does not accept admissions applications for Summer semester from F-1 and J-1 applicants from abroad or transferring from other U.S. institutions:

- Submit the completed UCF admissions application form with the required $30.00 application fee (check or money order in U.S. currency). An online application is available on our web site at http://www.admissions.sdes.ucf.edu/underapplink.asp.
- Students who attended an international secondary school that uses a grading and evaluation system different from the U.S. system will need a document-by-document evaluation of the secondary school record in English. This record, which should include performance evaluations, grades for work completed over a period of at least three years, as well as any certificates earned, should be sent to one of the agencies listed below. They will translate it if necessary, evaluate it, and then send their evaluation directly to UCF. A grade point average should be calculated and must appear on this evaluation.
- If the student has attended any international universities, an English translation and evaluation of work completed at each institution will be necessary. Transcripts should be sent to one of the agencies below for a course-by-course evaluation. Please note that if 60 or more semester hours have been earned at a post-secondary institution, it will not be necessary to submit the secondary school records.
- Results of the TOEFL (Test of English as a Foreign Language) may be required of students whose first language is not English. Information about this examination can be obtained from TOEFL, P.O. Box 6151, Princeton, New Jersey, 08541-6151.
- Results of the SAT or ACT will be required if the student has earned less than 60 semester hours of college credit.
- Information regarding these examinations may be obtained from the College Board (SAT), P.O. Box 592, Princeton, NJ, 08540 or from ACT, P.O. Box 414, Iowa City, Iowa, 52243. While there are no specific minimum score requirements on these examinations for admission, they are used in conjunction with other required credentials, and students should prepare sufficiently to achieve the highest possible score on these exams.
- Applicants must file a "Certification of Finances" form and supporting
Mandatory Health Insurance for International Students on F-1 and J-1 Visas

Each international student on a F-1 or J-1 visa offered admission shall, prior to registration for classes, submit proof of required health insurance coverage with the Student Health Center to comply with the State of Florida mandatory health insurance requirement for F-1 and J-1 students. Minimum coverage limits can be obtained from the Student Health Center. Written proof of insurance must also be provided. If the insurance is issued by a foreign carrier or underwriter, a statement must be provided in English to assure that the policy meets the State of Florida minimum levels of insurance coverage. The University reserves the right to refuse registration to any international student on F-1 or J-1 visas who fails to comply with this insurance requirement or who is unable to supply satisfactory proof of insurance. The University also reserves the right to withdraw from classes any international student who fails to maintain insurance coverage, cancels insurance coverage, or avoids in any way the responsibility to comply with the insurance requirement.

Undergraduate Admissions

Credits From Private and Out-of-State Institutions

Transfer credit from private junior and senior colleges and out-of-state institutions will be evaluated on a course-by-course basis. Each student must submit the necessary petition(s) to the appropriate office(s) to determine which courses will transfer with regard to degree progress at UCF. Transfer courses that meet the requirements of the General Education Program and the Gordon Rule are determined through the process described in the "Undergraduate Degree Requirements" chapter of this Undergraduate Catalog. Petition procedures vary by college. Generally the petitioning of transfer courses for satisfaction of college and major requirements should be done during the second full term of the student's residency at UCF, so that the accepted transfer courses are understood clearly by the student and the faculty advisor early in the student's tenure at UCF.

Baccalaureate Honors

Transfer students should be aware that eligibility for graduation with baccalaureate honors requires the completion of a minimum of 48 semester hours at UCF and is based upon an overall grade point average. For more details, refer to 'Academic Honors' within the "Academic Regulations and Procedures" section of this Undergraduate Catalog.
Office of Student Financial Assistance
Executive Director: Mary H. McKinney
Millican Hall, Room 120
Switchboard: 407-823-2827
Appointment: 407-823-5285
Fax: 407-823-5241
E-mail: finaid@mail.ucf.edu
Web site: http://finaid.ucf.edu
Office Hours: Monday: 9:00am - 7:00pm
Tuesday, Wednesday, Friday: 9:00am - 5:00pm
Thursday: 1:00pm - 7:00pm
(Hours subject to change during holidays and semester breaks.)

The Office of Student Financial Assistance manages resources for all students. Once financial aid eligibility is determined, the office provides options to help students meet their educational goals. Comprehensive counseling is available by appointment. Due to confidentiality, counseling by phone and e-mail is limited.

Student Eligibility
To receive aid from most federal and state financial aid programs, students must meet certain requirements. All students are encouraged to complete the Free Application for Federal Student Aid (FAFSA) annually, before March 1, to determine eligibility. The FAFSA results are required for many programs. The federal processor, using a standardized formula, calculates financial need. Those results are then forwarded to the schools that were identified on the form as considered for attendance. UCF must be listed on the FAFSA in order to receive the data. UCF’s Title IV code is 003954. Regulations are subject to change at any time.

Application Priority Deadline Date
All students must apply or reapply yearly for financial aid. To be considered for the full range of financial aid available, students should complete the Free Application for Federal Student Aid (FAFSA) or Renewal FAFSA by mid-February. The processed results of the FAFSA must be received by UCF by March 1st to meet our application priority deadline date.

If the priority date is missed, students should apply as soon as possible after that date to be considered for the financial aid that is still available, such as Pell Grants, Stafford Loans, and PLUS Loans;
Students should not wait to be admitted to UCF before applying for financial aid;
Federal Pell Grants and Stafford Loans are available on a year-round basis. Students may apply for financial aid in advance of any term and receive aid from these programs, if eligible;
Students who apply for aid after July 15th should not expect their aid to be paid until well after the beginning of the fall semester;
A broad range of scholarship programs is available with diverse criteria. Please review the scholarship information on the Web site for specific deadline dates for individual scholarships.

Application Procedures
- The FAFSA can be filed electronically at www.fafsa.ed.gov. A link is provided on the Web site and on My.UCF.edu
- Messages from the federal processor should be reviewed thoroughly;
- Review all correspondence, follow instructions on the Student Aid Report, and follow through promptly. Delays can be costly as well as frustrating;
- Federal Regulations require that some students be selected for verification. If selected, students will be asked to provide documents supporting the information submitted on the FAFSA. Sometimes subsequent requests for data may be necessary after initial submissions are reviewed. Prompt response to requests for additional documentation will expedite completion of this process;
- Offered federal funds and other need-based financial aid are not considered firm until verification is complete and all necessary corrections have been made.

Specific Eligibility Requirements and Conditions for Receiving Financial Aid
- Students must be accepted and classified as degree seeking at UCF in an eligible program;
Financial Information

- For purposes of financial aid, enrollment is based solely on classes that count toward degree completion. If a class is not required to earn a degree, then the hours of that class are not used to calculate a student's enrollment. To ensure enrollment in sufficient hours for the various financial aid programs, please refer to the Program Eligibility Charts on the Web site;
- Students must maintain UCF’s Standards for Satisfactory Academic Progress;
- Students are required to inform financial aid of any additional sources of aid they expect to receive beyond those listed on the award notification. Any subsequent awards or income may necessitate a revision of the financial aid award/s. This includes, but is not limited to, any private scholarships or third party tuition payment waivers, such as the Florida Pre-Paid Program;
- Students may not receive aid in excess of their cost of attendance;
- Students must not be in default on any federal educational loan or owe repayment on a federal grant at this or any other institution;
- Students must provide all information requested for the completion of their file. If selected, verification must be completed within specified deadlines and prior to the receipt of all federal and state and institutional funds;
- Students must notify the Office of Student Financial Assistance of any changes in their housing status, household size, or family members in college from that listed on their FAFSA;
- Students must reapply annually for financial aid;
- Students must complete an entrance interview for a Federal Stafford Loan if they are a first time borrower at UCF;
- Students must be a U.S. citizen or an eligible non-citizen, (e.g., resident alien). Eligible non-citizens include I-151, I-551, and I-688 cardholders as well as some I-94 classifications;
- Students must have a high school diploma or GED certificate;
- For need based programs, students must show a financial need as computed on the FAFSA;
- A male applicant must be registered with Selective Service, if applicable.

Helpful Hints
- Apply early to be considered for the full range of financial aid available each year by completing the Free Application for Federal Student Aid (FAFSA)/Renewal FAFSA. The processed results of the FAFSA must be received by UCF from the federal processor by March 1 to meet our application priority deadline date;
- Make a copy of tax return forms before submission to IRS;
- Start a folder to save financial aid information and photocopies of all documents filed and received. Include student’s name and PID on all documents submitted. (Do not submit originals; documents will be shredded after scanning.);
- Maintain a current e-mail and mailing address on myUCF at all times at https://my.ucf.edu;
- Complete all items necessary to apply for both a Federal Pell Grant and a Federal Stafford Loan, even if it doesn’t seem advantageous at the time. The law requires that students be considered for a grant before a loan is offered. Choosing a lender does not obligate the student to accept a loan, but will make it easier if additional funds are needed;
- Respond promptly to all information requests;
- If there are extenuating circumstances or problems at anytime, call the appointment line, 407-823-5285, to meet with a counselor;
- Comprehensive information can be found on the Web site: http://finaid.ucf.edu.

School Costs
Estimated student budgets have been developed as a guide to help students anticipate their costs at UCF.

**Estimated Cost of Attendance for 2006-2007**

<table>
<thead>
<tr>
<th>Housing Status</th>
<th>(Full-time Fall/Spring)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Living with Parent</td>
</tr>
<tr>
<td>Tuition/Fees</td>
<td>$3,282.00</td>
</tr>
<tr>
<td>Books/Supplies</td>
<td>$888.00</td>
</tr>
<tr>
<td>Room/Board</td>
<td>$4,454.00</td>
</tr>
<tr>
<td>Personal Exp.</td>
<td>$2,210.00</td>
</tr>
<tr>
<td></td>
<td>Total (In State)</td>
</tr>
<tr>
<td></td>
<td>Total (Out of State)</td>
</tr>
</tbody>
</table>

**Transportation**

|                      | $1,592.00               | $1,592.00 |

**Non resident Tuition/Fees**

|                      | $12,868.00               | $12,868.00 |

**Total**

|                      | $25,294.00               | $29,368.00 |

**Financial Aid Programs Available at UCF**

Financial aid comes in many forms, such as grants, loans, employment, waivers, and scholarships. The Program Eligibility Charts on the Web site under “Receiving Aid” list the various programs and their specific enrollment requirements. Detailed information for each program can also be found on the Web site under its particular title. Grants are considered gift aid and do not have to be repaid. Only undergraduate students who have not previously received a bachelor’s degree and who demonstrate financial need are eligible for grant programs. Awards are based on the amount of available funds and the number of eligible applicants. To be considered for grant awards, students must meet eligibility requirements and have a valid FAFSA on file with the office.

Loans are borrowed funds that must be repaid. They provide undergraduate students with an opportunity to invest in their future. Undergraduate students must enroll for at least six hours at UCF in UCF classes to receive federal loans.

Federal Work Study is designed to provide students who demonstrate financial need a chance to earn money while pursuing a degree. Individual departments hire students while the Office of Student Financial Assistance determines the eligibility, award amount, and pay rate. Scholarships are awarded based on various criteria, including financial need, campus/community activities, leadership positions, academic success, and work experience. Scholarships are designed to reward, encourage, and assist students in pursuing academic excellence and leadership roles.

**Award Notification**

Award notifications are mailed to first time UCF students after March 15th, while e-mail award notifications are sent to continuing students. Initial awards may be amended due to factors such as contingent admission status, less than minimum hours enrolled, insufficient academic progress, changes needed due to verification, incomplete files, additional resources, etc.

Student awards will be based upon the student’s financial need, the amount of available funds, the number of UCF students who qualify for aid, and the date the student completes the application process. The amounts listed on the award notifications are estimates based on full-time enrollment. For purposes of financial aid, enrollment is based solely on classes that count toward degree completion. If a class is not required to earn a degree, then the hours of that class are not used to calculate a student’s enrollment.

Admission to UCF must be finalized with no contingencies. Students must be a U.S. citizen or an eligible non-citizen, (e.g., resident alien). Eligible non-citizens include I-151, I-551, and I-688 cardholders as well as some I-94 classifications;

- Students must have a high school diploma or GED certificate;
- For need based programs, students must show a financial need as computed on the FAFSA;
- A male applicant must be registered with Selective Service, if applicable.

**Deferrals of Tuition and Fees**

Financial aid awards will normally result in a deferral of tuition and fee payments. Deferrals allow for the time lag that normally occurs between the date that tuition and fees are due and the date on which financial aid disbursements are made, which is normally two to three weeks after the semester begins. Students are responsible to pay any amount owed to the university that is not covered by estimated aid and other resources by the payment deadline. The deferral process occurs automatically if the student is meeting all general eligibility requirements and has enrolled in sufficient hours for the financial aid program/s. Please refer to the Program Eligibility Charts on the Web site for more information. Students should use myUCF to obtain up-to-date information. Since awards are subject to change, deferrals are also subject to change. Deferrals based on estimated Stafford loans will be canceled prior to the beginning of the semester if the student has not completed the loan application process. Students must drop classes prior to the end of add/drop in order to not be fee liable for those classes. If students do not drop their classes, a financial aid deferment may keep the classes active even if they are never attended.
### Financial Information

<table>
<thead>
<tr>
<th>Program</th>
<th>Deadline</th>
<th>Minimum Credit Hrs. Required</th>
<th>Available to Graduate Students</th>
<th>Second Undergraduate Degree Seeking</th>
</tr>
</thead>
<tbody>
<tr>
<td>Federal Pell Grant</td>
<td>Before June 30, 2005</td>
<td>Prorated based on hours</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Federal SEOG (Supplemental Educational Opportunity Grant)</td>
<td>March 1</td>
<td>12</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>UCF Grant</td>
<td>March 1</td>
<td>12</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>FSAG (Florida Student Assistance Grants)</td>
<td>March 1</td>
<td>6</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Federal College Work Study</td>
<td>March 1</td>
<td>6</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FWEP (Florida Work Experience Program)</td>
<td>Varies</td>
<td>6</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Federal Stafford Loan Program</td>
<td>Posted each term</td>
<td>6 at UCF</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Federal Perkins Loans</td>
<td>March 1</td>
<td>6</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Scholarships</td>
<td>Varies</td>
<td>Varies</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Federal Unsubsidized Stafford Loans</td>
<td>Posted each term</td>
<td>6 at UCF</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Federal Parent Loans for Undergraduate Students (PLUS)</td>
<td>Varies</td>
<td>6 at UCF</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

**Disbursements**

Financial aid disbursements begin the second week of each term. Students should be aware of this, so they are prepared to use their personal savings for anticipated expenses such as books and supplies at the beginning of the term. The Short Term Advance is available for students to help with these expenses. The application is available for download prior to each term, so that funds may be available as early as the first day of classes. Students who apply late for financial aid should be prepared to cover their own living expenses, out-of-pocket, well into the semester. When financial aid disbursements are received, the funds first apply towards university debts. The remaining balance is refunded to the student one of two ways. If a student has visited the SunTrust Bank on campus and has linked the account to the UCF Card, then the refund is deposited into the student’s account. Otherwise, a check is mailed to the student’s current mailing address listed on myUCF.

**Satisfactory Academic Progress (SAP)**

Federal regulations require the University to establish Standards of Satisfactory Academic Progress as a general eligibility requirement for financial aid. A student must maintain satisfactory academic progress in a course of study regardless of whether the student previously received financial aid.

To meet the standards adopted by the University of Central Florida, a student must:

- Complete a minimum of 70% of the attempted hours taken during the course of the year. Compliance of this requirement is checked at the end of each spring term. If students fail to meet this requirement or were not enrolled during the last monitoring period (fall/spring), a review of total hours taken at UCF will occur to determine if a 70% completion rate was attained for all attempted UCF course work. If students fail to pass both of these reviews, the student will be placed on Satisfactory Academic Progress cancellation status, effective the following academic year, beginning fall term. Students on probation must meet standards each term.

- Graduate within the number of hours allowed by the Satisfactory Academic Progress policy. Students are allowed a specific number of UCF attempted hours, based on their academic level at the time of admission to UCF. (see chart next page)


**Re-establishing Eligibility after Cancellation**

Any student with extenuating circumstances, (i.e., death of a relative, an illness or injury of the student, etc.), who is placed on cancellation status may appeal to the Financial Aid Review Committee for reinstatement based on his/her special case.
If the student was canceled for the failure to complete 70% of the attempted hours and since cancellation, he/she has brought up the percentage to a minimum of 70%, the student may appeal to the above committee for reinstatement, at that time. To appeal, the student must:
- Attach documentation supporting specific circumstance(s) to the appeal form; and
- Submit the appeal and the supporting documentation to the Office of Student Financial Assistance.

After a thorough evaluation of the written request and all supporting documentation, the Financial Aid Review Committee will notify the student of the decision by e-mail communication or the student may view the updated status on myUCF, under View Financial Aid Status.

Transfer Students
Be informed. Not all financial aid programs are transferable and eligibility for some programs will be determined by UCF. The application process must be complete; pay close attention to priority filing dates. If a FAFSA for the year in question has already been filed, request that the federal processor forward the information to UCF, Code 003954, by utilizing Part II of the SAR, or by calling the federal information center at 1-800-4 FED AID. The To Do List on myUCF will indicate any required forms.

Independent Students
You will be classified as independent for financial aid purposes only if at least one of the following applies:
- you are 24 years of age or older by December 31 of the award year;
- you are married;
- you are or will be enrolled in a master’s or doctoral program (beyond a bachelor’s degree) during the school year;
- you have children who receive more than half their support from you;
- you have dependents (other than your children or spouse) who live with you and who receive more than half their support from you and will continue to receive more than half their support from you through June 30th of the school year;
- you are an orphan or ward of the court (or were a ward of the court until age 18); or
- you are a veteran of the U.S. Armed Forces. (*Veteran” includes students who attended a U.S. service academy and who were released under a condition other than dishonorable.)

Dual Enrollment
Students who have been approved to take classes at another institution might have those hours counted toward meeting financial aid requirements for some programs at UCF. Dual enrollment will not meet eligibility criteria for institutional aid programs. Courses must meet some major or general education requirements to be calculated as part of student aid eligibility. All of the following documents must be submitted to the Office of Student Financial Assistance on or before the withdrawal deadline of the semester in which aid is to be disbursed:
1. Advisor Certification Form with all required signatures;
2. A copy of the Fee Invoice and class schedule confirming that the classes and hours enrolled match the Transient Student Form;
3. A completed Consortium Agreement Form to be completed by the transient school financial aid office.

Dual enrolled students must make arrangements to pay tuition and fees at the visited school since there is no system for deferral of those tuition and fees. In addition, it is the student’s responsibility to insure that the visited school promptly provides UCF with academic transcripts, confirming that the attempted hours are completed. Transcripts or grades should also be submitted to the Office of Student Financial Assistance. This will help avoid academic progress problems. Students who expect to receive funds under any of the federal loan programs must enroll for a minimum of six undergraduate hours at UCF in UCF classes to meet eligibility requirements. Students may not receive financial aid from two institutions at the same time. Students must decide which of the two institutions is the primary school at which they are degree seeking and apply for aid there. Any inaccuracy will result in a mandatory repayment to one of the two schools for the overpayment.

Over Awards
An over award occurs when a student’s award package has exceeded either the unmet need or cost of attendance, depending on the type of aid that has been awarded. To prevent over awards, it is extremely important to notify the Office of Student Financial Assistance of any potential awards not already listed on the student’s financial aid award summary on myUCF. In the event of an over award, a student’s award package is reduced to eliminate the over award, which may result in a repayment of the over award.

Refunds and Return of Title IV Funds
Students should be aware that if they withdraw from the university after having received financial assistance, they might have to repay a portion of that assistance. Students who received Federal Stafford Loans should also know that the Office of Student Financial Assistance is required to notify lenders of student withdrawals.

Professional Judgment
The formula used to determine eligibility for federal student aid is basically the same for all applicants. However, in some cases, special circumstances may be taken into consideration. Students with extenuating circumstances should schedule an appointment to review the situation with a counselor. There must be a very good reason to make any adjustments and proof must be provided to support any adjustments. The situation will be reviewed and a decision will be made through the Professional Judgment process.

Student Rights and Responsibilities
Students have the right to full information about the financial aid programs available at UCF, our application procedures and aid deadlines, and the criteria used to determine a financial aid package. Students have the right to appeal decisions made by the Office of Student Financial Assistance. Students have the right to equitable treatment of their financial assistance applications. Although each student’s case is analyzed individually, eligibility standards are applied uniformly without regard to race, gender, religion, creed, national origin, or physical handicap. All students’ records are confidential. It is the student’s responsibility to review and understand all information and instructions, meet all deadlines, and provide all information and documentation accurately. Errors and omissions can cause delays and prevent students from receiving assistance. Misrepresentation is a violation of the law.

Student Accounts Office
Associate Controller: Dan Mayo
MH 107; 407-823-2433

General Information
The Office of Student Accounts is here to serve the students who attend our university by maintaining accurate financial records and communicating with students concerning their accounts. The Student Accounts Office is responsible for:
- Tuition and Fee Assessment/Refunds (Student Accounts, MH107)
Financial Information

- Processing Payments (Cashier's Office)
- Overdue payment and institutional loans collection (Loans and Collections)  

Schedule of Fees*
(www.itroffice.ucf.edu/character/current_tuition.html)

*Note: 2006-2007 tuition and fees had not been established at the time of this publication. Rates for the 2006-2007 academic year will be available in early July 2006. Fees are subject to change without notice.

Tuition and Fees: Tuition and fees are established by the state legislature and University Board of Trustees and are subject to change without notice. Fees are affected by residency status. Tuition and fees are charged per semester or term for main campus, regional campus, and continuing education courses.

Tuition is assessed on a per credit hour basis. Students classified as zero-hour term for main campus, regional campus, and continuing education courses are affected by residency status. Tuition and fees are subject to change without notice. Students classified as zero-hour term for main campus, regional campus, and continuing education courses are affected by residency status. Tuition and fees are subject to change without notice.

Fee Invoice: A printed fee invoice confirms fees and course registration. Fee invoices are available on the web (www.my.ucf.edu) and kiosks, and from the student's college advising offices. Students must obtain a current fee invoice prior to making payment at one of the payment locations. Fee invoices are not mailed.

Fee Payment Deadlines: All University tuition and fees must be paid by the published dates. Tuition and fees not paid by the payment deadline date for each term will result in late fees and could result in the cancellation of all classes.

Limited Non-Degree Enrollment Classes Payment guidelines for Limited Non-Degree enrollment classes can be found on the "Registration Form for Non-Admitted Students." It is the student’s responsibility to officially drop or withdraw from courses so as to avoid additional financial obligations.

Student Financial Responsibility Statement
Registration at UCF requires students to acknowledge the following financial responsibility statement: "I accept responsibility for payment of my term tuition and fees by the published deadline. I understand that if I do not pay my tuition and fees or do not pay these fees by the due date, I will be charged a $100 Late Payment Fee, my records will be put on hold, my account will be referred to a collection agency, and I may incur other financial consequences."

Payment Procedures
Payment must be received or postmarked no later than the fee payment deadlines specified to be considered on time. Non-cash payments (checks and money orders) placed in the 24-Hour Depository by the official fee payment deadline will be considered on time.

Acceptable forms of payment:
Cash (Cashier's Office)
Checks (Cashier's Office, E-Pay, or Mail)
Credit cards (Cashier's Office, or E-Pay)

E-Pay -- https://my.ucf.edu -- E-Check or credit card -- non-refundable $10 convenience fee per transaction
Mail -- Do not send cash -- Please include the student's PID on checks or money orders
Address payments to: University of Central Florida
P.O. Box 918449
Orlando, FL 32891-8449

Payment Locations & Hours:
Cashier's Office - Main Campus - MH110 -- Mon & Thurs 8:30 am to 7:00 pm and Tues, Wed & Fri 8:30 am to 4:00 pm (407) 823-2614
Cashier's Office - Main Campus - John T. Washington Center-- Mon through Fri 8:30 to 4:00 (407)823-0828/0829
Cashier's Office - Brevard Campus (BCC Cocoa Campus) - BLDG 11 Room 204-- Mon through Fri 8:00 am to 3:30 pm (321) 433-7615
Cashier's Office - Daytona Beach Campus 105- Mon through Thrus 8:30 am to 4:00 pm and Fri 8:00 am to 12:00 noon (no cash) (386) 506-4073
Cashier's Office - Palm Bay Room: 115- Mon through Fri 8:30 am to 4:00 pm (no cash) (321) 433-5187/5186
24-Hour Depository - Millican Hall at Reflection Pond Entrance - (no

2005-2006 Fee Schedule*

<table>
<thead>
<tr>
<th>Fees Per Credit Hour</th>
<th>Florida Resident</th>
<th>Non-Florida Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matriculation Fee</td>
<td>$71.57</td>
<td>$201.54</td>
</tr>
<tr>
<td>Non-Resident Fee</td>
<td>$0.00</td>
<td>$416.88</td>
</tr>
<tr>
<td>Building Fee</td>
<td>$2.32</td>
<td>$2.32</td>
</tr>
<tr>
<td>Capital Improvement Fee</td>
<td>$2.44</td>
<td>$2.44</td>
</tr>
<tr>
<td>Financial Aid Fee</td>
<td>$3.57</td>
<td>$10.07</td>
</tr>
<tr>
<td>Non-Res Financial Aid Fee</td>
<td>$0.00</td>
<td>$20.84</td>
</tr>
<tr>
<td>UCF Activity and Svc Fee</td>
<td>$9.37</td>
<td>$9.37</td>
</tr>
<tr>
<td>UCF Athletic Fee</td>
<td>$11.09</td>
<td>$11.09</td>
</tr>
<tr>
<td>Transportation Access Fee</td>
<td>$4.34</td>
<td>$4.34</td>
</tr>
<tr>
<td>Total Per Hour Fees</td>
<td>$104.70</td>
<td>$241.17</td>
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</table>

2005-2006 Repeat Course Schedule*

<table>
<thead>
<tr>
<th>Fees Per Credit Hour</th>
<th>Florida Resident</th>
<th>Non-Florida Resident</th>
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<tr>
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<tr>
<td>Transportation Access Fee</td>
<td>$4.34</td>
<td>$4.34</td>
</tr>
<tr>
<td>Repeat Course Fee</td>
<td>$170.22</td>
<td>N/A</td>
</tr>
<tr>
<td>TOTAL PER HOUR FEES</td>
<td>$274.92</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Other Fees: Resident and Non-resident *

<table>
<thead>
<tr>
<th>Fee Description</th>
<th>Florida Resident</th>
<th>Non-Florida Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCF Campus Card Fee (per academic year)</td>
<td>$10.00</td>
<td></td>
</tr>
<tr>
<td>Campus (ID) Card Replacement Fee</td>
<td>$15.00</td>
<td></td>
</tr>
<tr>
<td>Health Fee (per term)</td>
<td>$6.60 per credit hour</td>
<td></td>
</tr>
<tr>
<td>Minimum charge: $99.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material and Supply Fee (per term; approved courses only – varies per course)</td>
<td>$5.00-$45.00</td>
<td></td>
</tr>
<tr>
<td>Equipment Fee (per term, for use of equipment) Business majors.....Full time: $15.00; Less than full time: $7.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Equipment Fee (per term, for use of equipment) Music majors........Full time: $70.00; Less than full time: $35.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>International Student Service Fee (per term)</td>
<td>$50.00</td>
<td></td>
</tr>
<tr>
<td>Late Registration Fee (students who initially register during Late Registration)</td>
<td>$100.00</td>
<td></td>
</tr>
<tr>
<td>Late payment Fee (failure to pay, defer or present waiver for fees by payment deadline)</td>
<td>$100.00</td>
<td></td>
</tr>
<tr>
<td>Returned Check Fees (checks returned for any reason):</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Check amounts up to $50.00</td>
<td>$25.00</td>
<td></td>
</tr>
<tr>
<td>Check amounts over $50.00 and less than $300.00</td>
<td>$30.00</td>
<td></td>
</tr>
<tr>
<td>Check amounts over $300.00</td>
<td>$40.00 or 5%, whichever is greater</td>
<td></td>
</tr>
</tbody>
</table>

Zero Hour Registration: Students registering for zero credit hours pay for a minimum of one credit hour at the level they are classified. Fees are subject to change without notice.

Note: 2006-2007 tuition and fees were not available at the time of publication. Rates for the 2006-2007 academic year will be available in early July 2006.
Financial Information

Cashier’s Office- Rosen College Campus Room 201A Hours to be determined… (no cash/debit cards) (407)903-8187
Credit card payments may be made online, through myUCF E-Pay (https://my.ucf.edu), or at any of the Cashiers’ Offices. A mandatory, nonrefundable $10 convenience fee will be charged each time a student chooses to pay tuition or other state mandated fees with a credit card through E-Pay.

Other Forms of Payment
Tuition and fees may be partially or completely paid by Financial Aid, Florida Prepaid, Tuition Waivers, or Department Grants. The student is responsible to pay any amount that is not covered by these types of payments by the fee payment deadline as described under Payment Procedures.

Financial Aid – see Student Financial Assistance for rules and procedures. All fees not covered by financial aid are due by the fee payment deadline.

Florida Prepaid College Plan
For any enrolled student who has a Florida Prepaid College Plan, the University automatically will defer only the portion of the tuition covered under the plan. All fees not covered by the plan are due by the fee payment deadline. If the student does not wish to utilize the Prepaid Tuition Plan, the student must notify the Student Accounts Office (MH 107) by the last day of Add/Drop.

The standard plan will pay $79.90 per credit hour (graduate or undergraduate level) for the 2005-2006 academic year. The plan does not cover the local fees of $24.80 per credit hour, the health fee, material/supply fees, or the UCF ID Service and Access fee. The local fee plan, which is indicated on the Florida Prepaid Tuition Plan card, will cover $100.36 per credit hour and the health fee. For further details on the Florida Prepaid Tuition Plan please visit our website www.fa.ucf.edu and click Forms. Then click on Student Services. Scroll down to Florida Prepaid Tuition Plan Procedures. Note: the 2006-2007 tuition rates had not been established at the time of publication.

Tuition Waivers
State of Florida Employees Tuition Waiver
Full-time state employees may be allowed to enroll for up to six (6) credit hours of eligible instruction per term on a space-available basis without payment of tuition and fees. State Employee registration occurs on the last day of regular Registration for each term, at the time specified on the Academic Calendar www.ucf.edu/info/acad_calendar.php for each term. Should the student register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will be invalid and the UCF employee will be liable for all applicable fees. Any UCF employee who uses an Employee Tuition Waiver for approved courses must submit a completed and signed Tuition Waiver Form to the UCF Student Accounts Office (MH 107) by each term’s fee payment deadline. See the Academic Calendar www.ucf.edu/info/acad_calendar.php for each term for the fee payment deadlines. Prior to enrolling into courses each term, refer to the Human Resources web site at www.hr.ucf.edu/web/forms/benefits/tuitionwaiver.pdf for eligibility requirements, course restrictions, and the waiver application form. Students are encouraged to list alternate courses on their waiver form to substitute for preferred courses that are completely filled. Courses that are not listed on the waiver form cannot be waived.

Tuition and Fees for Senior Citizens
Persons 60 years of age or older who meet Florida residency requirements may register to audit classes on a space-available basis without payment of tuition and application fees. Registration is on a space-available basis; see the appropriate term’s Academic Calendar www.ucf.edu/info/acad_calendar.php for registration dates and times. The tuition fee waiver cannot be used for courses that require increased costs (such as thesis, dissertation, and directed individual study). A “Florida Residency” Affidavit is required to establish Florida residency. A completed “Student Health History” form must be filed prior to registration. Inquiries should be directed to the Registrar’s Office (MH 161; Telephone: (407) 823-3100).

Refund of Fees
A refund of fees will be processed under the conditions noted below. The student must submit a written appeal for a refund or other appeal action to the University within six months of the close of the semester/term to which the refund or other appeal action is applicable. Any debts to the University will be deducted from the refund, up to the full amount.

Full Refund Eligibility
The following conditions allow a full refund: 1) A class is dropped before the end of the Add/Drop period; 2) Cancellation of a course by the University; or 3) The student is denied admission for any reason to a course offered by the University.

Partial Refund (25%) 25% of tuition and fees is refundable when the student withdraws completely from the University prior to the end of the fourth week of classes during a 16- or 17-week semester, or at the end of the first quarter of classes during a Summer session.

Exceptional Circumstances
Refunds for exceptional circumstances are available upon withdrawal from one or more courses. Up to 100% of tuition and registration fees are refundable if due to circumstances determined by the University to be exceptional, including, but not limited to, sickness, death, involuntary call to military service, or University administrative error.

Direct Deposit
Students are strongly encouraged to establish direct deposit with the University. Direct Deposit prevents delays due to lost checks or charges of address. All refunds from students’ accounts will be directly deposited into their checking accounts. Funds are usually available within 24-48 hours after disbursement, and enrollment only takes a few minutes. To enroll, sign in at and click on Student Self Service. Click on the Student Accounts icon, then click on Direct Deposit and follow the instructions.

Past Due Accounts
All financial obligations to the University must be met. Failure to meet obligations can result in the withholding and denial of registration, diploma, transcripts and readmission to the University. The services of a professional collection agency and recourse to the courts may also be invoked if deemed necessary. All costs of collection, including attorney’s fees, are borne by the debtor.

Do not assume your registration will be canceled if you fail to pay fees or attend classes. Tuition deferrals, for example, will prevent class cancellation for non-payment. Payment guidelines for off-campus registration are contained on the off-campus registration form.

Late Fees
Late Payment Fees apply to students who do not pay their fees or
Financial Information

who do not pay their fees (or obtain a full fee deferment) by the pay-
ment deadline. The Late Payment Fee is $100 per semester.

Late Registration Fees are charged to Students who enroll following
the close of Add/Drop for the term, who re-register, or who enroll for
the first time that term during Late Registration and Add/Drop. The
Late Registration Fee is $100.00 per semester.

Fee Appeals
Students who desire to appeal a Late Registration Fee and/or a Late
Payment Fee may make their appeal to the Fee Appeals Committee
by initiating a student petition (Form 41-561). This form can be
obtained online at . Click Forms, Student Services, and Fee Appeals
Petition. Students must submit their petitions to Student Accounts
(MH 107) and may appear before the Committee (not mandatory).
Forms faxed to Student Accounts should be addressed Attn: Fee
Appeals (407) 823-6476.

Holds
Holds due to unpaid tuition and fees that prevent registration and the
receipt of transcripts will automatically be removed overnight once
fees are paid.

Florida Residency for Tuition Purposes
At University of Central Florida, three offices are responsible for the
review of residency for tuition purposes under Florida Statute
1009.21 (formerly 240.1201) and Board of Regents chapter 6C-
7.005. The offices of Undergraduate Admissions and Graduate
Studies determine residency for all first-time-on-campus students;
the Registrar’s Office reviews student requests for changes in resi-
dency once the student is enrolled. A first-time-on-campus student
will be classified according to the information he or she includes on
the application for admission, providing that no other information is
available that calls into question the information contained on the
application.

To qualify as a Florida resident for tuition purposes in accordance
with State regulations, the student must be a United States citizen,
resident alien, parolee, Cuban national, Vietnamese refugee, or
other refugee or asylee so designated by the United States
Citizenship and Immigration Service.

And

Have established a legal residence in this state and maintained that
legal residence for 12 months immediately prior to the term in which
they are seeking Florida resident classification. The student’s resi-
dence in Florida must be as a bona fide domiciliary rather than for
the purpose of maintaining a mere temporary residence or abode
incidental to enrollment in an institution of higher education, and
should be demonstrated as indicated below (for dependent students,
as defined by Internal Revenue Service regulations, a parent or
guardian must qualify).

And

Submit the following documentation (or in the case of a dependent
student, the parent must submit documentation) prior to the last day
of registration for the term for which resident status is sought:

1. Documentation establishing legal residence in Florida (this
document must be dated at least one year prior to the first
day of classes of the term for which resident status is
sought). The following documents will be considered in
determining legal residence:
   a. Declaration of Domicile (Note: the Declaration
      of Domicile will support a claim of residency for tuition
      purposes only after a period of 12 months from the
date that the Clerk of the Court notes that the decla-
ration was sworn and subscribed to them.)
   b. Proof of purchase of a home in Florida in which the
      student resides;
   c. Proof that the student has maintained residence in
      the state for the preceding year (e.g., rent receipts,
      employment records).
2. Documentation establishing bona fide domicile in Florida
which is not temporary or merely incidental to enrollment in
a Florida institution of higher education. The following docu-
ments will be considered evidence of domicile even
though no one of these criteria, if taken alone, will be con-
sidered as conclusive evidence of domicile:
   a. Declaration of Domicile;
   b. Florida voter registration;
   c. Florida vehicle registration;
   d. Florida driver license;
   e. Proof of real property ownership in Florida (e.g.,
deed, tax receipts);
   f. Verification of permanent employment in Florida by
the employer, employment records, or other employ-
ment-related documentation (e.g., W-2 paycheck
receipts), other than for employment normally pro-
vided on a temporary basis to students or other tem-
porary employment. The document must show 12
consecutive months of Florida employment prior to
the first day of classes of the term for which the stu-
dent requests Florida residency;
   g. Proof of membership in or affiliation with community
or state organizations or significant connections to
the State;
   h. Proof of continuous presence in Florida during peri-
ods when not enrolled as a student;
   i. Proof of former domicile in Florida and maintenance
of significant connections while absent;
   j. Proof of reliance upon Florida sources of support;
   k. Proof of domicile in Florida of family;
   l. Proof of admission to a licensed practicing profes-
sion in Florida;
   m. Any other factors peculiar to the individual that tend
to establish the necessary intent to make Florida a
permanent home and that the individual is a
bona fide Florida resident, including the age and
general circumstances of the individual;
   n. Proof of graduation from a high school located in
Florida.

3. No contrary evidence establishing residence elsewhere;

4. Documentation of dependent/independent status (nota-ized copy of most recent IRS tax return)
   Or
   Be married to a person who has been a legal resident of
   the State of Florida for the required 12-month period and
   relinquish legal ties to any other state,
   Or
   Be a member of the Armed Forces on active duty sta-
   tioned in Florida, or a spouse or dependent,
   Or
   Be a member of the full-time instructional or administrative
   staff of a state public school, community college, or univer-
   sity in Florida, a spouse or dependent,
   Or
   Be a dependent and have lived five years with an adult rel-
   ative, who has established legal residence in Florida,
   Or
   Be a person who was enrolled as a Florida resident for
   tuition purposes at a Florida institution of higher education,
   but who abandoned Florida residency and then re-enrolled
   in Florida with 12 months of the abandonment,
   Or
   Be a full-time Latin American or Caribbean student who
   receives scholarships from the federal or state govern-
   ment,
   Or
   Be a United States citizen living on the Isthmus of Panama
   who has completed 12 consecutive months of college work
   at the Florida State University Panama Canal Branch, or a
   spouse or dependent,
   Or
   Be a graduate student of the Southern Regional Education
   Board’s Academic Common Market attending Florida’s
   state universities.
   Or
   Be a full-time employee of a state agency or political sub-
   division of the state when the student fees are paid by the
   state agency or political subdivision for the purpose of job-
   related law enforcement or corrections training.
   Or
Financial Information

Be a U.S. Citizen who is a McKnight Doctoral Fellowship recipient,

Or

Be a qualified beneficiary under the Florida Pre-paid Post-secondary Expense Program per s.240.551(7)(a),

Or

Be an active duty member of the Canadian military residing or stationed in this state under the North American Air Defense (NORAD) agreement, or a spouse or dependent,

And

Submit a statement as to the length of residence in Florida and their residency qualifications under the above criteria. Students requesting Florida residency for tuition purposes shall apply to the appropriate admissions office if they have not yet enrolled, or to the Registrar's Office if they already are enrolled.

Residency Reclassification

The offices of Undergraduate Admissions and Graduate Studies determine first term at UCF residency for tuition purposes for all newly admitted students. Thereafter, the Registrar's Office will review student requests for changes in residency. The Registrar's Office cannot review student requests for residency reclassification to be effective with the student's first term of enrollment.

To request a residency review, the student must submit a completed "Residency Reclassification Request Form" and supporting documents to the Registrar's Office (MH 161). This form is available either at the Registrar's Office or online at http://Registrar.ucf.edu. The reclassification form must be accompanied by all documents that support the student's Florida residency claim.

Residency reclassification requests are subject to Florida Statute 1009.21, Florida State Board of Education Administrative Code 6A-10.044, and State Board of Education rule 6C-7.005. In addition, University policy requires students requesting residency reclassification to provide documentation establishing that they have income or personal sources to meet financial obligations of attendance and living expenses. Contact the Registrar's Office at 407-823-3100 for additional information regarding all residency reclassification requirements.

When building a case for Florida residency for tuition purposes, the student may choose to submit documents from a variety of categories. Students may consult the Registrar's Office before submitting the reclassification request and supporting documents. The submission of documents in itself does not qualify the student for Florida residency for tuition purposes. The Registrar's Office will evaluate the submitted documents and available information and will render an eligibility determination. UCF is authorized to make discretionary judgments as to residency within the bounds of the law and in reaching this professional judgement will evaluate all documents submitted and information available. No single document shall be conclusive.

Students seeking residency reclassification should understand that living in or attending college in Florida is not tantamount to establishing residency in Florida for tuition purposes. The student who comes to Florida to enroll in a Florida post-secondary educational institution as an out-of-state resident and continuously enrolls in a Florida institution normally will not meet the Florida residency requirement for in-state tuition regardless of the length of time enrolled. Living or attending school in Florida merely evidences physical presence. The student must provide documentation verifying that he or she has formed significant legal ties to the State of Florida. This documentation must establish that the Florida residence constitutes a bona fide domicile rather than serving the purpose of maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education. Evidence establishing legal ties to states other than Florida may disqualify the student from Florida residency for tuition purposes. All determinative documents must be dated at least 12 months before the first day of class for the term in which residency is sought.

Students entering the second term of enrollment at UCF or later who believe that they qualify for Florida residency must submit the "Residency Reclassification Form" and all documents to the Registrar's Office (MH 161) prior to the close of "Late Registration and Add/Drop" for the term in which Florida residency is requested. Documentation received after the last day of "Late Registration and Add/Drop" will not be used to determine residency for the current term. Approved residency reclassification will not be applied retroactively to previous terms.

The Registrar's Office may require additional documentation beyond that initially submitted by the student or the claimant before it can render a reclassification eligibility determination and it will not complete its review of the residency reclassification application until both the student and the claimant have submitted all requested documents.
Responsibilities

Academic advising is a process that assists students in the clarification of life goals and the translation of these goals into educational plans. It provides assistance to students as they explore educational opportunities and develop educational plans and objectives. Academic advising connects students with the University by bringing meaning to its mission, its curriculum and to the learning environment that is the University community. Academic advising is committed to assisting and supporting students with developing their educational, career and life goals. It provides access to campus resources, and coordinates the integration of all aspects of student life into learning experiences. It is an individualized avenue of communication that assists students in the planning and decision-making process.

Although academic advisors provide assistance, it is the student’s responsibility to know the university policies, procedures, requirements, and seek out assistance when needed. There are a variety of academic advising systems available at UCF in each of the colleges, schools, and the Division of Student Development and Enrollment Services.

Freshman (First Time in College - FTIC)

Every incoming freshman is assigned a professional first year academic advisor in one of the five offices listed below. These advisors also collaborate with the University's colleges, and schools and link students to advisors in various academic programs. The assignment of a first year advising office will be based on the specialized services of each program and the student’s particular needs. Please know that although you have been assigned to an advisor in one of the offices, you are not limited to seeking help there. Contact the assigned advising office if you need to change advising offices.

Academic advising is one of the most important services provided at UCF and can impact a student's successful progression to graduation.

New FTIC Students can expect to:

1. Attend a mandatory Orientation that will provide:
   a. Initial academic advising in a group setting and preparation for the first semester, including schedule planning and registration
   b. An assessment of high school grades, entrance and placement test scores, and AP, IB, and CLEP credit
   c. A national of expectations for success at UCF
   d. Information about key academic policies and important deadlines
2. Connect to their first year advising office during the first semester according to the following designated priority order:
   a. Academic Services for Student-Athletes (ASSA) - for student athletes (WDSC 110)
   b. Student Academic Resource Center (SARC) - for participants in the College Achievement Program (CAP) or Pegasus Success Program (PH 113)
   c. Multicultural Academic and Support Services (MASS) - for all students in the SOAR program (PH 102)
   d. Transfer and Transition Services (TTS) - for freshman students entering UCF with 45 or more college credits earned through accelerated mechanisms from AP, IB, CLEP, and/or dual enrollment courses (PH221)
   e. First Year Advising and Exploration (FYAE) - for students not covered by any of the previous categories (PH 116)

Through these offices students can access general education advising, the academic exploration program for undeclared students, academic support, registration assistance, and on-going information about University policies and procedures throughout the first year experience. For more information about the first year advising offices and their services, please see the "Student Development and Enrollment Services" chapter of this Undergraduate Catalog.

3. Participate in programs and advising activities that will promote a successful transition from high school to the university.
4. Transition to an academic advising office within the college of the student's chosen major at the beginning of the sophomore year.

The Burnett College of Biomedical Sciences

New students will:

Meet with the Office of Student Service and Advisement (OSSA)
Additionally, prudent use of elective hours in the curricula will permit other appropriate pre-health professions courses to be obtained. All pre-health professions students are strongly encouraged to participate in the activities of one or more of the student health related organizations.

**Curricula Guidelines**

All pre-health professions students are strongly encouraged to enroll in SLS 2311 (Overview of Select Medical Careers) the first Spring semester they are enrolled. This course provides a broad exposure to the various four-year health professions. In addition, the entire pre-professional process (academic preparation, applications, admission tests, interviews, admissions, scholarships, etc.) is explained in depth.

All pre-health professions students should complete the following courses (many of which are applicable to the GEP):

- General Biological Sciences (BSC 2010C, 2011C)
- Genetics (PCB 3063)
- General Chemistry (CHM 2045C, 2046, 2046L)
- Organic Chemistry (CHM 2210, 2211, 2211L)
- Microbiology (MCB 3203)
- Calculus (MAC 2233 (prefer MAC 2311 2312))
- Physics (PHY 2053C, 2054C (prefer PHY 2048, 2048L, 2049, 2049L))
- Statistics (STA 2023)

For additional recommended courses, contact the Pre-Health Professional Advisement Office (HPA 124).

**Dates of Importance**

The pre-professional screening process is initiated every February. Application packets are available at the Pre-Health Professions Advisement Office during the month of February. Dental and veterinary medicine applicants should return completed packets by April 15. All other applicants (chiropractic, medical, optometry, podiatry, and pharmacy) are encouraged to return completed packets by May 1.

All students should be aware of registration deadlines and test dates for their specific exams (DAT, MCAT, OAT, GRE, etc.). In addition, most four-year health professions schools subscribe to professional application services (AMCAS, ADDSAS, ACOMAS, etc.) and thus require completion of a thorough application packet provided by the various application services. Otherwise, the student applicant must deal directly with the admissions office of the school.

**College of Arts and Humanities**

Although students may have several advisors for various reasons, majors within the College of Arts and Humanities must meet with their major department and their faculty academic advisor and/or the staff of the Office of Academic Support and Information Services (OASIS; CNH 202) as soon as possible.

**New students will:**

1. Meet in a group setting during Orientation with representatives from the College of Arts and Humanities to discuss college policies and procedures;
2. Meet with representatives of the department of the major to discuss major requirements and career opportunities, and plan a class schedule;
3. Refer to OASIS any questions pertaining to general education requirements, AP and CLEP credit, Gordon Rule, university credit hour requirements, university policies and procedures;
4. Register for classes at a central location; and,
5. Check their "Fee Invoices" to ensure accuracy of their class schedule.

**Continuing students will:**

1. Contact the department of their major and meet with a faculty advisor in the department during the first two months of any semester to review progress and plan a program of study;
2. Meet with their academic advisor in the department of their major prior to registration. The myUCF Class Schedule Search is also available online at https://my.ucf.edu each semester, and a SASS Degree Audit is available on myUCF. Questions about the degree audit should be directed to OASIS unless specific to the major requirements;
3. Continue to register for classes through myUCF. Special assisted registration (e.g., overrides, independent study) must be handled in OASIS;
4. Refer to OASIS any questions pertaining to GEP, CLEP, AP credit, Gordon Rule, university credit hour requirements, as well as policies and procedures; and,
5. Check their "Fee Invoices" to ensure accuracy of their class schedule.

**College of Business Administration**

The College of Business Administration seeks to provide its students with the highest quality academic advising. The intent of the advising system is to assist prospective and current business majors in the development of an educational plan.

**New students will:**

1. Meet college advising representatives in a group setting during Orientation to discuss college policy, procedures, and degree programs;
2. Review degree requirements at Orientation using SASS Degree Audit and catalog to better understand degree requirements and learn how to read a SASS Degree Audit;
3. Meet with your advisor in the Office of Undergraduate Student Support (USS; BA 2 101) during their first enrolled semester to petition transfer work into their degree program;
4. Meet with a faculty advisor in the department of their major to understand the career options of your major; and,
5. Be advised in the USS if your major is Business Pending.

**Continuing students will:**

1. Meet with a faculty advisor or advisors in the USS to review their academic progress and develop an academic plan. This plan should be reviewed prior to registration each term;
2. Pick up your SASS Degree Audit from myUCF. Check myUCF or the TV monitors for registration dates each term;
3. Register at your scheduled appointment time. Register in myUCF if you are in your major. All changes to your schedule must be completed by the end of the Add/Drop period;
4. Complete all prerequisites prior to admission to upper division classes; and,
5. Meet with your advisor in USS during the semester/term prior to your graduation term. File your "Intent to Graduate Form" by the end of the term prior to the term in which you plan to graduate.

**College of Education**

**New students will:**

1. Meet college advising representatives in a group setting during Orientation to:
   a. Discuss College of Education admission requirements needed for enrollment in 3000/4000 level classes
   b. Review degree program requirements
   c. Understand expectations and responsibilities associated with a career in education;
2. Be advised by the College of Education Office of Student Services (ED 110) if their major is Education Pending. An appointment is recommended (407) 823-3723; and,
3. Be assigned to a faculty advisor in the area of their major upon completion of College of Education admission requirements. The faculty advisor's name and telephone number appear on the SASS Degree Audit to assist students in making an advising appointment.

**Continuing students will:**

1. Set up an appointment with a faculty advisor if accepted in a major or the Office of Student Services, if a "Pending" major, to review academic progress and to develop an academic plan. Review this plan each term with an advisor prior to registration;
2. View a SASS Degree Audit through myUCF;
3. Register at scheduled appointment time in myUCF. Students with extenuating circumstances may register in person in the College of Education Office of Student Services. Students must complete any changes to their schedules by the end of the published Add/Drop period; and,
4. File an "Intent to Graduate Form" in the College of Education by the end of the term prior to the term in which graduation is intended.
College of Engineering and Computer Science

New students will:
1. Meet with the Engineering and Computer Science Academic Affairs representative in a group setting during Orientation to:
   a. Review the College of Engineering and Computer Science academic policies and procedures;
   b. Discuss degree program requirements;
2. Meet with a faculty advisor in the department of their major to:
   a. Understand the career options of the major;
   b. Plan an appropriate first semester schedule; and
3. Be advised in the Engineering and Computer Science Academic Affairs Office (ENGR 107) if Engineering Pending majors. Students are encouraged to seek advisement on determining a major as soon as possible. Failure to declare a major by the end of the first year may result in a delay of graduation.

Continuing students will:
1. See the department of their major during the first few weeks of each term to be assigned a faculty advisor. Computer Science majors will be assigned a faculty advisor once they have passed the Computer Science Foundation Exam. Until that time, Computer Science majors will be advised by the Computer Science Undergraduate Advising Office in CSB 201C;
2. Set up an appointment with an advisor to review your academic progress and to develop an academic plan. Review this plan each term with the advisor prior to registration;
3. Use the flow diagram or four year plan received during orientation to progress through the degree requirements;
4. View a SASS Degree Audit, the registration time, and search for classes (once the class schedule is available) through myUCF at https://my.ucf.edu;
5. Register at the scheduled appointment time in myUCF, or in person in the Engineering and Computer Science Academic Affairs Office (AAO). Complete all schedule changes by the end of the published Add/Drop period;
6. Submit a written schedule plan signed by their AAO advisor each term if you have been placed on an engineering advisement hold. This plan must be submitted in person to the Engineering and Computer Science Academic Affairs Office each time a student uses the registration process. and,
7. File an "Intent to Graduate Form" in the Engineering and Computer Science Academic Affairs Office by the withdrawal deadline of the term prior to the term in which the student intends to graduate.

College of Health and Public Affairs

New students will:
Meet college advising representatives in group settings during Orientation to:
1. Discuss degree program requirements;
2. Understand career options of the major program of study; and,
3. Plan an appropriate first semester class schedule.
4. If the student is accepted in a major, he or she should check in the department of their major for their assigned faculty advisor during the first few weeks of the semester.

Continuing students will:
1. See their faculty advisor. If accepted in a major, during the first few months of each semester to check progress toward graduation and selection of program courses. The faculty advisor's name and phone number appear on the SASS Degree Audit each term;
2. See an advisor in the College of Health and Public Affairs (COHPA) Office of Student Support (HPA2 115). If pending majors in limited-access programs, during the first few weeks of each semester to check progress toward eligibility for application to the major;
3. View a SASS Degree Audit through myUCF; and,
4. File an "Intent to Graduate Form" in the COHPA Office of Student Support by the end of the term prior to the term in which graduation will occur.

Rosen College of Hospitality Management

New students will:
Meet college advising representatives in group settings during orientation to:
1. Discuss degree program requirements;
2. Understand career options and major programs of study;
3. Plan an appropriate first semester class schedule; and,
4. Review a SASS Degree Audit through myUCF.

Continuing students should:
1. See their faculty advisor during the first few weeks of each semester to check progress and to select a program of study;
2. See a program advisor prior to registration to select courses;
3. View a SASS Degree Audit through myUCF and contact the Office of Academic Services regarding questions or concerns; and,
4. File an Intent to Graduate Form in the College's Office of Student Services (Suite 201, Rosen College Campus) during registration for the graduating term.

College of Sciences

Although students may have several advisors for various reasons, majors within the College of Sciences must meet with their major department and their faculty academic advisor and/or the staff of the Office of Academic Support and Information Services (OASIS; CNH 202) as soon as possible.

New students will:
1. Meet in a group setting during Orientation with representatives from the College of Sciences to discuss college policies and procedures;
2. Meet with representatives of the department of the major to discuss major requirements and career opportunities, and plan a class schedule;
3. Refer to OASIS any questions pertaining to general education requirements, AP and CLEP credit, Gordon Rule, university credit hour requirements, university policies and procedures, etc;
4. Register for classes at a central location; and,
5. Check their "Fee Invoices" to ensure accuracy of their class schedule.

Continuing students will:
1. Contact the department of their major and meet with a faculty advisor during the first two months of any semester to review progress and plan a program of study;
2. Meet with their academic advisor in the department of their major prior to registration, and before the beginning of the term to ensure their schedule is still appropriate.
3. Access the class schedule and SASS Degree Audit online at https://my.ucf.edu;
4. Register for classes through https://my.ucf.edu. Special assisted registration (e.g., overrides, independent study, thesis) must be handled in OASIS;
5. Refer to OASIS any questions pertaining to the SASS audit regarding GEP, CLEP, AP credit, Gordon Rule, university credit hour requirements, as well as policies and procedures; questions about major requirements in the SASS audit should be directed to the department; and,
6. Check their "Fee Invoices" to ensure accuracy of their class schedule.

Regional Campus System

New transfer students may meet with a professional or faculty advisor prior to applying to UCF and at any time while enrolled to discuss programs and requirements. Students will meet with faculty/professional advisors in a group setting during orientation to:
1. Discuss degree program requirements;
2. Understand career options of the major program of study; and
3. Plan an appropriate first semester class schedule.
Any student who has not been awarded an AA from a Florida public community college or state university and has not completed the UCF General Education requirements should make an appointment as soon as possible with an advisor at the appropriate UCF Regional Campus System location (or the Orlando Campus) to clarify University policies that will affect the student's status and graduation. Continuing students may meet with their advisors on an on-going basis.
For a list of the academic programs available through the Regional Campus System, see "UCF Regional Campuses" within the "University of Central Florida" chapter of this Undergraduate Catalog.
Transfer and Transition Services
Director: Charlene A. Stinard, PH 221
Orlando, FL 32816-0123
407-823-5959 or Fax: 407-823-3955
E-mail: tservices@mail.ucf.edu
Website: http://transfer.sdes.ucf.edu

The following section presents information to help students accomplish a smooth and efficient transfer to UCF. Students transferring with an A.A. from a Florida public community college or state university are guaranteed certain rights and privileges according to the statewide Articulation Agreement. Students transferring without an A.A. from a Florida public institution will want to pay particular attention to UCF’s general education program and how their transfer credits apply to their degree.

Students transferring with an A.S. in one of the articulated degree programs should refer to the “Articulated A.S. to B.S. Programs” chapter of this Undergraduate Catalog. Any questions about these programs should be directed to the Director of Transfer and Transition Services.

Where Can I Go For Help?
For information or assistance during the transfer process, you may contact the Office of Transfer and Transition Services, located in Howard Phillips Hall, room 221. Call the Student Hotline at 407-823-5959 or visit the web site at http://transfer.sdes.ucf.edu; an Instant Messenger feature allows you immediate access to staff during regular business hours.

The Office of Transfer and Transition Services provides the following services and resources:

- Accurate and current information about university programs and policies including entrance and exit requirements, as well as information concerning:
  - Transfer concerns and questions;
  - Course equivalencies;
  - Common program and course prerequisites;
  - Critical academic and transfer policies;
  - Foreign language requirements;
  - UCF critical dates and deadlines;
  - General advising and referral for transfer students before and after they enroll at UCF;
  - Individual appointments to discuss transfer issues;
  - Written articulation agreements between the university and community colleges;
  - Advising for currently enrolled transitioning students who are undeclared majors, undecided or changing majors, and freshmen with 45+ credit hours;
  - Transfer Peer Mentor advising services.

How Can a Community College Counselor or Advisor Help Me?
It is important that you are kept informed of all requirements for transferring to UCF. Community college counselors and advisors are provided with information and resources about the requirements to enter each program at UCF. They can help you determine which classes you need to complete before transferring. Additionally, they have access to information for limited access majors that have special requirements: application deadlines, GPA, testing, portfolios, letters of recommendation, etc.

Why Should I Complete My A.A. Before Transferring From a Florida Public Institution?
Receiving your A.A. from a Florida public institution ensures special benefits guaranteed under the statewide Articulation Agreement. The following are some of the advantages of receiving your A.A.:

- Priority in admission to state universities;
- Acceptance of at least 60 credit hours toward the baccalaureate degree; no additional general education core requirements;
- Acceptance of all courses taken at your institution, if the same course with the same course number is offered at UCF;
- Transfer of all accelerated programs (CLEP, AP, IB, early admission, and dual enrollment courses) within the A.A.; official test scores must be sent to receive UCF course credit;
- Advance knowledge of selection criteria for limited access programs; equal opportunity with UCF native students to enter limited access programs; and
- All grade forgiveness awarded under the A.A. will be honored.

If you do not complete an A.A. at a Florida public community college or university, you must complete UCF’s general education requirements, which may be considerably different from your previous institution’s requirements. In addition, no grade forgiveness will be honored. All attempted credits will be averaged into your GPA for admission purposes. If you have met all the A.A.
Transfer Services

requirements except the CLAST, you should have “General Education Requirements Met” placed on your transcript to assure getting credit for meeting General Education and Gordon Rule requirements. Without this statement you must satisfy UCF’s general education requirements and Gordon Rule courses. If your grade point average falls below a 2.0 (without grade forgiveness), you will not be admitted.

What If I Have Not Taken the CLAST?

Students may be admitted without completing the CLAST. However, without the CLAST completed, you are not awarded the A.A.; privileges provided by the A.A. are not granted, (e.g., grade forgiveness, Gordon Rule, and the completion of general education requirements).

If you have not met the CLAST requirement, you must take the exam in your first term of enrollment; you must satisfy all four parts of the CLAST by the time you have completed 36 hours of upper-division course work. UCF accepts the CLAST alternatives and waivers awarded by Florida public community colleges and universities.

Admission requirements have changed for students entering the College of Education. The General Knowledge Test (GKT) of the Florida Teacher Certification Examination (FTCE) may now be used as both an admission and graduation requirement for state-approved teacher preparation programs.

The CLAST will continue to be an admission option for students, but does not satisfy graduation requirements.

For additional information concerning the CLAST, contact the Student Academic Resource Center: 407-823-5130.

What Are the Foreign Language Requirements?

To be admitted to the University you should complete two years of the same foreign language or American Sign Language in high school (document by submitting an official high school transcript), or 8-10 semester hours in the same language at the college level, or pass a CLEP or other proficiency examination. Students admitted without this requirement must satisfy it prior to graduation.

Some baccalaureate degrees require students to demonstrate foreign language proficiency as a graduation requirement; this requirement may be satisfied by college-level course work or testing equivalent to two semesters of college instruction. Some majors require additional proficiency; some departments accept American Sign Language to meet the proficiency. Consult the UCF Undergraduate Catalog for graduation requirements for specific majors. High school courses will not satisfy graduation foreign language requirements. International students required to provide TOEFL scores for admission are considered to have satisfied the graduation requirement.

How Will My Credits Transfer?

All college level credits earned for which official transcripts have been submitted will be compiled into a Transfer Summary Report (TSR), which is available online. The TSR

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Transfer Checklist

| Before Completing the A.A. | ___/___ | meet with counselor or advisor for graduation check |
| ___/___ | complete application for graduation |

| Application for Admission | ___/___ | date submitted |
| ___/___ | date admission status checked at |
| ___/___ | date of acceptance |

| Transcripts (original transcript from all institutions attended) | ___/___ | date transcripts sent from all current and prior institutions |
| ___/___ | date final transcript sent after term completed |

| Financial Aid/Scholarship | ___/___ | date financial aid application (FAFSA) sent |
| ___/___ | date financial aid notification received from UCF |
| ___/___ | date of SCHOLARSHIP application mailed or transfer notice sent to appropriate office |
| ___/___ | date of SCHOLARSHIP application response |

| Housing | ___/___ | on-campus |
| ___/___ | off-campus |
| ___/___ | date application sent (include deposit when required) |
| ___/___ | date accepted |

| Immunization | ___/___ | date student health form submitted |
| ___ | need immunizations |

| Foreign Language Requirements | Y__ N__ | 2 years/units earned in high school |
| Y__ N__ | 8-10 credits earned at the college level |
| Y__ N__ | credits to be taken at the university |
| Y__ N__ | exempt from foreign language admission requirements |

Note: Although American Sign Language may be used to satisfy the UCF admission requirement, it may not satisfy graduation requirements of the specific major.

| Program (Major) Requirements | Y__ N__ | limited access application |
| Y__ N__ | completed prerequisites |
| Y__ N__ | met grade point average (GPA) requirements |
| Y__ N__ | met minimum cumulative GPA for admission to program of study |
| Y__ N__ | met cumulative GPA in courses taken for program of study |
| Y__ N__ | met grade requirements for designated courses |
| Y__ N__ | audition, portfolio, additional admission requirements met |
| Y__ N__ | CLAST exam or alternatives |

| Orientation: | ___/___ | orientation date at UCF |

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is the basis for constructing a SASS Degree Audit, which applies earned credits toward your intended degree program. The audit provides you with an assessment of which degree requirements have been met and which remain to be satisfied. You will use the audit to schedule courses that meet your remaining requirements.

Some credits listed on the TSR may not be applicable toward graduation. Course requirements can vary; e.g., some departments do not accept a transfer grade of "D" (1.0). You should review the TSR carefully to ensure that all credits are included.

You must make sure that all official college transcripts, including a final transcript from the last institution you attended, are submitted to the Undergraduate Admissions Office within ten days of the start of your first term at UCF. If Admissions does not receive them, a hold is placed on your record, making it difficult for you to receive financial aid or to register for a future term.

When Do I Pay My Bill?

For students taking courses at UCF for the first time, tuition and fees payments are due by the published deadline. Students can print a copy of their fee invoice online from myUCF (https://my.ucf.edu). A late payment fee of $100 will be assessed on all accounts not paid or deferred by each term’s payment deadline. Please note that you will not be sent a bill. It is up to you to view your invoice through myUCF. Payments may be made at the Cashier’s Office, Millican Hall, room 110, or mailed to:

University of Central Florida
Cashier’s Office
PO Box 918449
Orlando, FL 32891-8449

Please do not mail or place cash in the night depository. Please include your PID on all checks and money orders. Credit cards are accepted, in person, over the Web, or by telephone, at a $10 convenience fee is added for each transaction.

Financial Aid deferments will automatically be reflected on your fee invoice. If the total amount of your tuition and fees exceeds the amount of your deferment, the difference must be paid by the due date on your fee invoice. The following programs are not included in the automatic deferral program: work/study programs, third party deferrals, other waivers, and direct pay scholarships.

Can Transfer Students Participate in The Burnett Honors College?

Qualified students who transfer to UCF with an honors A.A. from a Florida public community college that has signed an articulation agreement with The Burnett Honors College will be admitted into University Honors with junior standing. Community college transfers and other students who have completed their general education requirements may participate in the Honors in the Major program through the completion of departmental honors requirements, including an original research project. Transfer students who apply for admission to departmental honors programs must have a minimum GPA of 3.5 in their major. Successful completion of either honors program will be noted on your transcripts and diploma. For more information, call 407-823-2076 or visit the honors web site at http://honors.ucf.edu.

Transfer Tips: Office Visits for Transfer Advising

Students are encouraged to contact the Office of Transfer and Transition Services with questions or to schedule an appointment to meet with an advisor. Advisors are available Monday - Friday, 8:30 a.m. - 4:30 p.m.

Transfer students accepted to UCF who are undeclared majors or are undecided about their major should contact Transfer and Transition Services prior to orientation for advisement.

Students should:

• Submit your application at least six months in advance. Do not wait until the A.A. is awarded to apply. You can be admitted “contingent upon completion of the A.A.” if you meet specific admission requirements. By applying early and being admitted, you will be invited to an early orientation. This means you will register along with native UCF rising juniors.

• Keep a transfer diary. For each contact with UCF, record the name of the person with whom you spoke, the date, and the type of request. Keep a copy of all letters you send and receive.

• Have original transcripts from all institutions you have attended sent directly to the Undergraduate Admissions Office. If you are currently enrolled, send a transcript when applying and a final transcript when classes are completed.

• Attend the earliest Orientation session possible. You will have more course selections and registration choices. You should bring copies of all transcripts (transcripts sent in for admissions purposes are not available for advising during orientation). You are advised and then allowed to register. Tuition and fees payments are due by the published deadline, before class-
es begin.

• Complete the "Student Health Form." Registration will not be allowed without the completion and approval of this form.

• Complete CLAST if possible; however, you can be admitted without it. Since the A.A. is not awarded without completion of CLAST, privileges provided by the A.A. are not granted (i.e., grade forgiveness, Gordon Rule, and the completion of general education requirements). Without completion of CLAST, but with all general education courses completed, you should request the following statement placed on your transcript: “General Education Requirements Met.” Without this statement, you must satisfy UCF’s general education requirements (including Gordon Rule courses).

• Complete the "Free Application for Federal Student Aid" (FAFSA). To be considered for all aid available, your financial aid file should be complete by March 1.
Requirements for Graduation

Students must fulfill both the requirements for a major and University requirements to receive a bachelor’s degree from the University of Central Florida. The student must:

- Fulfill the requirements for the chosen major;
- Earn a minimum of 120 unduplicated semester hours with at least a “C” average (2.0 GPA) for all UCF course work attempted. Some majors require more than 120 hours;
- Earn at least 48 of these 120 semester hours in 3000-level courses or above (upper-division);
- Earn a minimum of 30 of their last 36 hours in regular courses at UCF. Credit by examination may not be used to satisfy this requirement;
- Earn a minimum of 25% of the total hours required for the degree in residence at UCF. For programs that require the minimum of 120 total hours, residency will be 30 hours. For programs that exceed 120 hours, the specific residency requirement increases proportionally and is listed with the requirements for the specific degree program;
- Earn a minimum of 60 semester hours after CLEP credit has been awarded;
- Apply no more than 45 semester hours in any combination of extension, correspondence, CLEP, University Credit by Examination and Armed Forces credits toward an undergraduate degree;
- Fulfill the General Education Program requirements;
- Fulfill the Gordon Rule requirements;
- Fulfill the Foreign Language requirements as defined elsewhere in this section;
- Fulfill the CLAST requirement;
- Earn a minimum of nine semester hours during Summer terms, if applicable; and,
- Be registered at UCF during the semester of graduation.

Degrees Awarded Posthumously

Students will be considered for posthumous degrees by the Commencement and Convocations Committee if they are in good academic standing at the time of their death, have a 2.0 GPA or better and are within at least 15 semester hours of completion of all requirements or are in the final term of completion of all their requirements.

Choice of Catalog (Catalog Year) and Continuous Enrollment

A student must graduate under the provisions of any UCF Undergraduate Catalog in effect since the student began continuous enrollment at UCF. New Catalog policies and requirements take effect with the Summer term. A student transferring from Florida public community colleges or state universities may use the UCF Undergraduate Catalog in effect at the time he or she began the most recent period of continuous enrollment in academic good standing at any of the Florida public institutions.

Continuous enrollment is defined as being enrolled in classes without a break of two or more consecutive regular semesters/terms (i.e., Fall and Spring, or Spring, Summer, and Fall). Continuous enrollment is automatically broken when a student moves from one transfer institution to another following academic disqualification or exclusion. Students who change majors between different colleges (including the Rosen College of Hospitality Management) must adopt the most current catalog. Additional information is included in the program descriptions. Students pursuing a single degree (including double majors and/or minors) must use a single catalog and cannot use a combination of catalogs for graduation. In cases when required courses are no longer taught by the University, the appropriate department, college, or Academic Services (MH 210) may designate a reasonable substitute. If a student desires to change the catalog for graduation, the student should first discuss with the advisors how such a change would affect University, college, and major requirements. If a student decides to request a change, he or she must submit a “Catalog Year Change Request Form” to the Registrar’s Office (MH 161). This form is available at the Registrar’s Office or online at http://registrar.ucf.edu.

General Education Program (GEP)

The purposes of the UCF General Education Program (GEP) are to introduce students to a broad range of human knowledge and intellectual pursuits, to equip them with the analytic and expressive skills required to engage in those pursuits, to develop their ability to think critically, and to prepare them for life-long learning. The GEP curriculum provides students with the intellectual, ethical, and aesthetic foundations necessary to make informed choices; to accept the responsibilities of working and living in a rapidly changing world; and to lead a productive and satisfying life.

Courses that fulfill the General Education Program requirements are specified, but in some cases an advanced course in the same discipline may be substituted for GEP requirements. These advanced courses approved by the Faculty Senate Undergraduate Common Program Requirements Committee, are listed in the section identified as “Alternate Courses: General Education Program.” Students should consult with an advisor before enrolling in an advanced course. Undergraduate students who have not completed requirements for the Associate of Arts degree and who desire to transfer to another Florida public university can have their transcripts indicate “General Education Requirements Met” upon written request, if they have completed UCF’s GEP requirements with a GPA of 2.0 or better. UCF will accept a similar statement on transcripts received from Florida public community colleges and universities in lieu of completion of the University’s General Education Program. Students enrolled in courses that use the “NC” grade must earn a grade of “C” (1.75) or better.

General Education Program Learning Objectives

Communications Foundation

- Demonstrate the ability to analyze the situational characteristics of a communication act: audience, purpose, and source/author.
- Demonstrate the ability to understand communication and speaking skills.
- Demonstrate the ability to write in a clear, logical and appropriate manner.
- Demonstrate the ability to research academic topics and present the synthesis of that research 1) in speech with appropriate citation and 2) in texts with correct documentation.
- Demonstrate an awareness of diversity in American society.

Cultural and Historical Foundation

- Be able to gather, synthesize, and analyze information from appropriate resources and be able to critically evaluate information and sources for accuracy and credibility.
- Identify and deepen appreciation of common human themes and the richness of diverse cultures.
- Be able to analyze and discuss meaning of an artwork, performance, or text in diverse aesthetic, historical and cultural contexts.
- Demonstrate knowledge and critical thinking of the concepts, styles, and aesthetic, theoretical, and critical principals in an art.
- Demonstrate knowledge of the chronology and significance of major events and movements in western civilization, U.S. history or world civilization.

Mathematical Foundation

- Demonstrate the skills needed to solve quantitative problems including choosing the appropriate technique and/or technology.
- Be able to solve real-world quantitative problems.
- Demonstrate qualitative understanding of mathematical, statistical, and computing concepts.
- Demonstrate knowledge and understanding of essential computing concepts common to academic degrees and their related professions.
- Demonstrate essential computing skills common to academic degrees and their related professions. In particular, skills relating to professional use of computers and application software.

Social Foundation

- Be able to gather and synthesize information from appropriate resources, and be able to evaluate information and sources for accuracy and credibility.
- Understand how an individual’s place in the world is affected by social, economic, and political institutions.
- Gain a deeper appreciation of one’s role and potential impact in social, economic, or political institutions.
- Demonstrate an understanding of the interaction among social, economic, and political structures and functions.
Undergraduate Degree Requirements

General Education Program (GEP) Courses (36 semester hours required)
(Some majors require a specific course or a higher level course in some areas. Consult your major requirements and advisor.)

Satisfactorily complete one course in each of the twelve numbered areas. 36 hours

A. Communication Foundation .......................... 9 hours
1. ENC 1101 English Composition 1, 2 3(3,0)
2. ENC 1102 English Composition II PR: ENC 1101 1, 2 3(3,0)
3. SPC 1600C Fundamentals of Oral Communication or SPC 1016 Fundamentals of Technical Presentation 3(3,0)
   COM 1000 Communication ............................ 3(3,0)

B. Cultural and Historical Foundation .......................... 9 hours
1. EUH 2000 Western Civilization I 3(3,0)
2. EUH 2001 Western Civilization II 3(3,0)
3. HUM 2110 Humanistic Traditions 3(3,0)
4. HUM 2230 Humanistic Traditions II 3(3,0)
   AMH 2010 U.S. History: 1492-1877 3(3,0)
5. AMH 2020 U.S. History: 1877-present 3(3,0)
6. WOH 2012 World Civilization I 3(3,0)
   WOH 2022 World Civilization II 3(3,0)

C. Mathematical Foundation .............................. 6 hours
1. MAC 1105 College Algebra 3(3,0)
2. MAC 1106 Finite Mathematics 3(3,0)
3. CGS 1060C Introduction to Computer Science 3(3,0)
4. STA 2046 Basic Statistics using Microsoft Excel 3(3,0)
   STA 2014C Principles of Statistics 3(3,0)

D. Social Foundation ........................................... 6 hours
1. ECO 2013 Principles of Macroeconomics 3(3,0)
2. ECO 2023 Principles of Microeconomics 3(3,0)
3. POS 2041 American National Government 3(3,0)
4. PSY 2012 General Psychology 3(3,0)
5. SYG 2000 General Sociology 3(3,0)
6. ANT 2000 General Anthropology 3(3,0)

E. Science Foundation ..................................... 6 hours
1. AST 2002 Astronomy 3(3,0)
2. CHM 1020 (Chemistry) CHM 2045C, CHM 1032, CHM 1033 3(3,0)
3. CHEM 2053C (Physics) PHY 2048, PHY 2049, PHY 2054C 3(3,0)
4. AST 2511 (Astronomy) 3(3,0)
5. PHY 2053C (Physics) PHY 2048, PHY 2049, PHY 2054C, PHY 2014C, PHY 5105C 3(3,0)
6. PHY 2100 (Physics) PHY 2100, PHY 2102, PHY 2104 3(3,0)

Effective Date: Summer 2006

Substitution of Courses: General Education Program and Other Requirements

The Student Academic Support System (SASS) is coordinated by the Office of Academic Services for the evaluation of transfer courses for the University’s General Education Program and Foreign Language Proficiency requirements. When the transfer course work is entered into the UCF computer system (usually during the first semester at UCF), course descriptions and other information to provide a sufficient basis for evaluation may be requested. Courses are evaluated on the basis of equivalency with the content of the courses required by the University. The evaluation conducted is entered into a computerized SASS Degree Audit system and then is available to the colleges and departments through the University’s computer network and for the student online access through myUCF at https://my.ucf.edu. Appeals of transfer credit decisions should be directed to Academic Services (MH 210). Substitution requests for college or major requirements are processed within those administrative offices.

Alternate Courses: General Education Program

Courses that may be taken in substitution for the stated GEP requirements are listed below:

GEP Requirement Acceptable Substitutions

MAC 1105 (College Algebra) 1
   MAC 1114, MAC 2233, MAC 2253, MAC 2264, MAC 2311, MAC 2312, MAC 2313

ECO 2013 (Microeconomics) Any higher level ECO course which has ECO 2013 as a pre requisite ECO 2023 (Microeconomics)

PHY 2053C (Physics) PHY 2048, PHY 2049, PHY 2054C, PHY 2014C, PHY 5105C

CHM 1020 (Chemistry) CHM 2045C, CHM 1032, CHS 1440

MAC 1105 or MAC 2264 1

BSC 2010C 1

BSC 2010 (Biology) 1

GEO 1200 (Geography) GEO 2370

CGS 1060C CGS 2100C, COP 2200, COP 2500C, COP 502C, COT 3100C

STA 2014C (Statistics) STA 2023, STA 3023

THE 2000 (Theatre) THE 2020

MUL 2010 (Music) MUL 2122, MUL 2106, MUL 2720

1 For all of the acceptable substitutions in this GEP requirement, a grade of "C" or better satisfies three hours of the Gordon Rule requirement.

Diversity Requirement

The University recognizes that communities are comprised of, and enriched by, people of diverse back grounds. The study of diversity is encouraged to promote an understanding of the needs of individuals, the University, and society. Thus, all students completing their first bachelors degree from UCF must complete at least one course that explores the diverse backgrounds and characteristics found among humans, including: race/ethnicity, gender, social class/caste, religion, age, sexual orientation, and level of physical ability.

Students are exempt from this requirement if they have completed an Associate of Arts degree or the General Education Program at a Florida public state university or community college. Students who have previously completed a baccalaureate degree are exempt. The requirement is satisfied by the successful completion of a diversity course selected from the following list. Additional courses may be approved subsequently by the General Education Oversight Committee, so students should consult their departmental advisor for the most current listing.

General Education Courses:

ENC 1102 Composition II
   SPC 1600C Fundamentals of Oral Communication

a A one credit laboratory is also available for this course.
b A grade of "C-" (1.75) or better is required in this course.
c A grade of "C" (1.75) or better satisfies three hours of the Gordon Rule requirement.
Other Courses:

- AMH 3421 History of Florida to 1845
- AMH 3423 History of Florida 1845-Present
- AMH 3562 Women in American History II
- AML 3283 Contemporary American Women's Fiction
- AML 3615 Harlem, Haiti, and Havana
- ANT 3245 Native American Religions
- ASH 4304 Women China
- CCJ 4463 Cultural Diversity in Criminal Justice
- CCJ 4670 Women and Crime
- CJ 4174 Comparative Justice Systems
- COM 4014 Gender Issues in Communication
- COM 4461 Intercultural Communication
- CPO 3304 Politics of Developing Areas
- EDG 2701 Teaching Diverse Populations
- GEO 3470 World Political Geography
- JST 3401 History of the Jewish People I
- JST 3402 History of the Jewish People II
- LIN 4643 Cross Cultural Communication
- LIN 4XXX African-American Styles of Communication
- LIT 3354 Ethnic Literature in America
- LIT 3192 Caribbean Literature
- MMC 4300 International Media
- MUL 2710 Music of the World
- NUR 3609 Transition Concepts in Nursing I
- NUR 3617 Promoting Healthy Communities
- NUR 3616 Promoting Healthy Families Across the Lifespan
- PAD 4461 Multiculturalism in Public Administration
- PLA 4020 Law and Society
- PLA 4830 Legal Systems
- PLA 4XXX Employment Discrimination
- POS 3627 Cultural Pluralism and Law
- POS 4323 Women and Politics
- POS 4622 Politics and Civil Rights
- PUR 3514 Minority Pollicits
- SOW 3420 Social Work with Minorities
- SPW 4772 Black Presence in Contemporary Latin America
- SYD 3800 Sex Roles in Modern Society
- SYP 4323 Social Systems and Diversity
- SYP 4734 Minority Aging
- SYP 4323 Social Systems and Diversity
- THE 3230 Commonality within Cultural Diversity Experienced through Theater
- WST 3561 Third Wave Feminism
- WST 3015 Introduction to Women's Studies

**Transfer work from other colleges and universities is evaluated by the student’s major department to determine if courses meet diversity requirement. Satisfaction of this requirement remains in effect if the student changes majors.**

**Exit Exams**

In order to measure their effectiveness, some departments and colleges may require graduating students to participate in an exit exam designed to measure the students’ understanding of the discipline.

**Foreign Language Proficiency Requirement (Bachelor of Arts Degree)**

Students graduating with a Bachelor of Arts degree must demonstrate proficiency in a foreign language equivalent to one year of college instruction. This requirement may be met either by successful completion of the appropriate college-level course or by examination. Languages that may be used include those taught at UCF and any others for which the University can obtain standardized proficiency tests. Students who have previously received a baccalaureate degree are exempt from this requirement.

**Placement in Language Course**

- Placement in foreign language courses is based on one year of high school language being equivalent to one semester of college work. For example, four years of one high school foreign language place the student in the first semester of the third year.
- Native speakers or students who have received advanced education abroad must substitute select classes.

**Several departments, colleges, and schools have additional requirements. See “Special College and/or Departmental Requirements” within each listing.**

1. This requirement is for proficiency and not a requirement for a particular number of hours of course work. For example, successful completion of only SPN 1121 (Elementary Spanish Language and Civilization II) would satisfy the B.A. requirement. Appropriate scores on Advanced Placement and CLEP examinations will also satisfy the requirement.
2. This is a University-wide requirement for all B.A. majors.
3. The Testing Administrator of the University Testing Center will offer the Foreign Language Proficiency Examination throughout each term. Students must register in advance with that office to take the examination (PH 106).
4. The foreign language proficiency requirement does not apply to students seeking a second baccalaureate degree.
5. A student who is required and furnishes a passing TOEFL (Test of English as a Foreign Language) score for admission to the University is considered to have satisfied the requirements.

**American Sign Language**

Students pursuing a Bachelor of Arts Degree may substitute American Sign Language for the foreign language exit requirement, except where one or more foreign languages have been specified by a college, school, or program for a specific degree (see individual degree program listings for more information). Proficiency is met either by successful completion of SPA 4614C or an appropriate score on the ASL proficiency exam. Contact the Department of Communicative Disorders regarding the proficiency examination.

**SUS Foreign Language Admission Requirement**

Students who have not satisfied the Foreign Language Admission Requirement (two high school units in the same language) at the time they are admitted to the University must satisfy this requirement prior to graduation. This requirement applies to all undergraduates and is separate from the UCF Foreign Language proficiency requirement.

**The Gordon Rule**

The “Gordon Rule” (State Rule 6A-10.30) applies to students who first enrolled in any college or university after October 1982. The rule requires students to complete four courses (twelve credit hours) of writing and to complete two courses (six semester hours) of mathematics at the level of college algebra or higher. Each course must be completed with a minimum grade of C- (1.75).

UCF courses that are required by the General Education Program also may be used to satisfy the Gordon Rule. “Gordon Rule” requirements may be satisfied by the General Education Program as follows:

- **Gordon Rule Requirement:** Any 3000-level or above course in mathematics, statistics, or computer science may be used toward fulfillment of the mathematics portion of the “Gordon Rule” Requirement.

- **General Education courses that apply to the Gordon Rule:**
  - ENC 1101 Composition I
  - ENC 1102 Composition II
  - LIT 2110 World Literature I
  - LIT 2120 World Literature II
  - AMH 1010 U.S. History: 1492-1877
  - AMH 2000 U.S. History: 1877-Present
  - EUL 2000 Western Civilization I
  - EUL 2001 Western Civilization II
  - HUM 2210 Humanistic Tradition I
  - HUM 2230 Humanistic Tradition II
  - WOH 2012 World Civilization I

- **GEP Courses Which Satisfy:**
  - (1) College algebra or finite math
  - (2) Statistics or computer science

- 2. Six hours of English coursework and six hours of additional coursework with significant level writing:
  - (1) Six hours of English Composition
  - (2) Specifically identified courses and those from the following list:

**General Education Writing Requirement:**

- ENC 1101 Composition I
- ENC 1102 Composition II
- LIT 2110 World Literature I
- LIT 2120 World Literature II
- AMH 1010 U.S. History: 1492-1877
- AMH 2000 U.S. History: 1877-Present
- EUL 2000 Western Civilization I
- EUL 2001 Western Civilization II
- HUM 2210 Humanistic Tradition I
- HUM 2230 Humanistic Tradition II
- WOH 2012 World Civilization I
Undergraduate Degree Requirements

WOH 2022 World Civilization II
BSC 2010C Biology I
Non-Gen Ed courses that also apply to the Gordon Rule Writing Requirement:
All Courses with an AML, ENC, ENG, ENL, and LIT prefix
AMH 3402 History of the South to 1865
AMH 3403 History of the South Since 1865
AMH 3441 History of the Frontier: Eastern America
AMH 3442 History of the Frontier: Western America
AMH 3541 U. S. Military History to 1900
AM in AM 3561 Women in American History I
AM 3571 Black American History I
AM 3800 Canadian History
AM 4110 Colonial America, 1607-1763
AM 4130 The Age of the American Revolution, 1763-1789
AM 4140 Jeffersonian America
AM 4160 Jacksonian America
AM 4170 Civil War and Reconstruction
AM 4201 The Gilded Age and Progressivism
AM 4231 United States History: 1914-1939
AM 4270 Hitler's Third Reich: 1939-1960
AM 4311 American Culture I
AM 4313 American Culture II
AM 4510 Rise of the United States to World Power, 1776-1914
AML 3031 American Literature I
AML 3041 American Literature II
ANT 3163 Mesoamerican Archaeology
ARH 4450 20th Century Art
ARH 4800 Theory and Criticism of the Visual Arts
ASH 4404 China in 19th and 20th Centuries
ASH 4442 Modern Japan, 19th and 20th Centuries
DAN 3134 Dance History I
EAS 4700C Aerospace Design I
EGN 4412C Interdisciplinary Design I
EML 4501C Engineering Design I
EUH 3122 Medieval Society and Civilization
EUH 3142 Renaissance and Reformation
EUH 3235 Romanticism and Realism
EUH 3242 Modern Europe and the First World War
EUH 3281 Second World War and Rebirth of Europe
EUH 3411 Ancient Rome
EUH 3451 History of Modern France
EUH 3651 War and Society
EUH 4284 Fascism and the Totalitarian Dictatorships
EUH 4405 Hitler's Third Reich
EUH 4500 English History to 1485
EUH 4501 English History: 1485-1815
EUH 4502 British History: 1815-Present
EUH 4571 History of Russia to 1801
EUH 4574 History of Russia: 1801-1917
EUH 4576 History of Russia in the 20th Century
EUH 4620 European Great Powers: 1815-1914
HIS 4130 History and Historians
HUM 3320 Contemporary Multicultural Studies
HUM 3334 Representations of Place and Space
HUM 3401 Asian Humanities
HUM 3431 Ancient Humanities
HUM 3460 Latin American Humanities
HUM 3553 Moses, Jesus and Muhammad
JOU 2100C News Reporting
JOU 3101 Advanced Reporting
JOU 4181 Public Affairs Reporting
JOU 4300 Feature Writing
JOU 4306C Critical Writing
JOU 4308 Freelance Writing
LAH 3130 Latin American History I
LAH 3200 Latin American History II
LAH 3400 History of Mexico and Central America
LAH 3470 History of the Caribbean
NUR 2315 Nursing Research
NUR 3805 Transitional Concepts in Nursing I
PAD 4034 The Administration of Public Policy
PAD 4720 Survey Research in Public Administration
PHI 3100 Ancient Philosophy
PHI 3200 Medieval Philosophy
PHI 3460 Modern Western Philosophy
PHI 3600 Contemporary Philosophy
PHI 3700 American Philosophy
PHI 3863 Research Methods in Philosophy
PHI 3932 Philosophy of Mind
PHI 3933 Philosophy of Cognitive Science
PHI 3941 Philosophy Practicum
PHI 4221 Philosophy of Language
PHI 4231 Philosophies of Embodiment: Mind/Body/Self
PHI 4341 Ways of Knowing
PHI 4904 Critical Theory
PHI 4931 Philosophy in the News
PHM 3401 Philosophy of Law
PHP 3781 African-American Philosophy
PHP 4782 Phenomenology
PLA 3155 Legal Writing
PLA 4935 Capstone: Legal Issues
REL 3131 Religion in America
REL 3432 Roots of Western Mysticism
RVT 4403 Electronic Media, Technology, and Society
SOW 4232 Social Welfare Policies and Issues
SOW 4341 Micro-Level Roles and Interventions in Social Work
THE 2304 Script Analysis
TPA 4940 Technical Theatre/Design Internship
TUP 3501C Directing for Theatre I
TUP 4904L Theatre Internship

College Level Academic Skills Test (CLAST)
The College Level Academic Skills Test (CLAST) is designed to ensure that students have achieved communication and computation skills commensurate with successful completion of the lower-division coursework. All students seeking an Associate of Arts or baccalaureate degree from a State of Florida institution are required by the State to satisfy the CLAST requirement. There are several methods by which students may meet this requirement, but applicants for teacher certification can only satisfy the CLAST by earning passing scores on each subtest. Students who have completed 18 or more semester hours are eligible to take CLAST.

Transfer students with more than 60 semester hours who have not taken the CLAST or who have not met the CLAST requirement may be admitted, but they must take the CLAST exam during their first term at UCF. If a student has not met the CLAST requirement by the completion of 36 upper division semester hours, enrollment in future terms at UCF will be restricted until the CLAST requirement has been satisfied.

Students with 60 or more credit hours who have not taken the CLAST may be restricted from future registration. Students who have not passed all four subtests of CLAST may enroll in 36 semester hours of upper division credit. If the CLAST requirement has not been satisfied and the 36 hours of upper division credit have been earned, enrollment in future semesters/terms at UCF will be prohibited until the CLAST requirement has been met. An appeal to continue enrollment may be submitted to the CLAST Petition Committee (PH 115). CLAST is offered statewide once per term. Students must register in advance at the University Testing Center (PH 106). Additionally, students may retake the English Language Skills, Reading, and/or Mathematics subtests on computer at the University Testing Center, PH 106. A fee will be charged for the computer-adapted CLAST. Information regarding preparation for the CLAST or alternative criteria for meeting the CLAST requirement may be obtained from Student Academic Resource Center (PH 115) at 407-823-2371. Academic advising offices can answer questions students may have regarding CLAST.

CLAST Waiver Petitions for Students with Disabilities
Students with disabilities may request reasonable accommodations while taking the CLAST. Those who are unable to pass a subtest of the CLAST due to a disability can request that a subtest be waived. The student must be registered with the Student Disability Services Office (SRC 132) and have on file documentation of his or her disability. Contact the Student Academic Resource Center (PH 115) to complete a petition to waive a CLAST subtest. The CLAST Waiver Committee reviews all requests for waivers on a case-by-case basis. For disability registration information, contact Student Disability Services Office at 407-823-2371. For CLAST waiver petition information and forms, visit http://fy.t.sdes.ucf.edu.

Summer Attendance Requirement
A student entering the State University System with fewer than 60
Undergraduate Degree Requirements

Semester hours of credit is required to enroll in a minimum of nine hours of credit in the summer at a State of Florida university. Courses taken at the University during the summer for which the student receives a “W” or “F” may be counted toward this requirement. Credit earned by acceleration mechanisms also applies toward satisfaction of the Summer Attendance Requirement. Petition forms for exemption are available from Academic Services (MH 210).

Admission to the Upper Division
To be classified as an upper division student at the University of Central Florida, a student must complete the following:
1. A minimum of 60 semester hours of academic work;
2. The English and mathematics requirements of the Gordon Rule;
3. Passing scores on three of the four parts of the CLAST; and,
4. One year of college instruction in a single foreign language.
(This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

Graduation Application Deadline
Students planning to graduate in the next term must complete the "Intent to Graduate Form" in their college (see the "Academic Calendar" for specific dates). Students who have not applied for graduation by the last day of classes in the term preceding the graduation term may not be listed in the Commencement Program.

Grad On Track (GOT)
First Year Advisor: Stephen O’Connell; PH 116; 407-823-3789; got@mail.ucf.edu; http://gradontrack.sdes.ucf.edu

The Grad On Track (GOT) program assures a student’s graduation in four years. GOT students agree to a pre-determined four-year program of study; in return, the University guarantees access to the Commencement ceremony and guest ticket information or refer to http://graduation.ucf.edu.

Successful completion of the degree requirements stated in the Undergraduate Catalog under which the student plans to graduate shall constitute a recommendation of the respective college faculty that the degree be awarded, assuming the student is in good standing at the University. A student must complete all requirements for a baccalaureate or graduate degree no later than the date of the Commencement. A student may not be enrolled as a transient student in another institution during the term in which the baccalaureate degree or the Associate of Arts degree is to be awarded.

Correspondence Courses
The University of Florida’s Division of Continuing Education, Department of Independent Study by Correspondence administers all correspondence instruction for the State University System of Florida (SUS). College credit, high school credit, and continuing professional education courses are available through regular mail and Fax (several by e-mail). Independent Study offers more than 150 courses to students who would like a flexible schedule or an opportunity to take extra classes. It is possible to enroll any time during the year.

In 1996, the State revised the General Provisions Rule 64-4.002, at the Bureau of Teacher Certification for the State of Florida. Any teacher in the state now can use credit correspondence courses, as appropriate, to apply toward the recertification of the teaching license. Moreover, there is no limit to the number of courses that may fulfill the requirements.

The current catalog details enrollment procedures, fees, and course information. A copy may be obtained at no cost by calling or writing to: University of Florida, Independent Study, Suite D, 2209 NW 13th St., Gainesville, FL 32609; 352-392-1711, Ext 200; e-mail: learn@nervm.ncrdr.ucf.edu. Website: http://www.doce.ucf.edu.

Double Majors
Students working toward a single bachelor’s degree (B.A. or a B.S. degree) may concurrently satisfy the requirements for two majors under the same catalog year and will be awarded one diploma with both majors indicated on the transcript. Since the requirements for Bachelor of Arts and Bachelor of Science degrees are different, a student completing a major with a B.A. and a major with a B.S. must satisfy the requirements for both the B.A. and the B.S. degrees and must use the same catalog year for both majors. Students may not pursue a BA/BS double major in the same major. Although both majors will be indicated on the transcript, only one diploma (B.A. or a B.S., at the student’s option) will be awarded. A double major does not require a minimum number of hours beyond those necessary for completing degree requirements (120 or more hours), while a second baccalaureate degree has specific minimum requirements.

Double Degrees/Second Baccalaureate Degree
Any UCF student desiring to obtain two or more baccalaureate degrees must meet the requirements for each degree and earn a minimum of 150 semester hours. A separate diploma will be awarded for each degree.

Transfer graduates from regionally accredited four-year U.S. institutions who apply for admission to work toward a second baccalaureate degree at UCF must meet the regular admission requirements of the major department and the UCF residency requirement for that degree. Students holding the baccalaureate degree from regionally accredited U.S. institutions are considered to have completed CLAST, Gordon Rule, foreign languages, and General Education Program Requirements. Students who hold degrees from non-regionally accredited U.S. institutions and foreign institutions may be required by the Office of Academic Services (MH 210) to fulfill all or part of the UCF General Education Program Requirements.

The University requirements specified in the preceding paragraphs are minimum requirements. Departments and colleges may require more than 150 semester hours for a second degree or more than 30 semester hours to be taken in residence at UCF. Students should confirm department, school, and college requirements with their academic advisors.

Catalog Year Requirements for Double Degrees and Double Majors
Students earning two degrees may use different catalog years for each degree. Students earning a double major must use the same catalog year for both majors.

Dual Usage of Credit Hours
Courses used to meet the requirements of an undergraduate degree typically cannot also be used to meet the requirements of a graduate program. At the discretion of the program and college, graduate programs are permitted to accept up to nine hours of graduate course work taken at UCF while an undergraduate student as part of an undergraduate program of study. Departments can provide information regarding the 3+2 degree programs and the Senior Scholars program. See the Graduate Catalog for further information.
Academic Regulations and Procedures

Registration Policies
During each academic term, registration is held for all new, currently enrolled, degree-seeking and non-degree seeking students for the following term. Registration sessions consist of Registration and Late Registration (held during the first week of classes for each term/session). Spring Registration begins following midterm for the Fall Semester. Summer and Fall Registrations begin following the mid-term of the Spring Semester. Class listings are available only online through the myUCF Class Schedule Search at https://my.ucf.edu.

Registration is available over the web using the myUCF system at https://my.ucf.edu and in the college advising offices. The dates and times for each registration period are included in the "Academic Calendar" online at http://www.ucf.edu/info/acad_calendar.php.

Schedule Web Guide

Terms and Credit Hours
The University of Central Florida academic schedule consists of two semesters (Fall and Spring), and the Summer term. The graduation credit value of each course of instruction is stated in terms of semesters. A semester hour of credit or credit hour represents one class hour of work (or two or more laboratory hours of work) per week for a semester. Classes may be offered for a six-week or nine-week session during the Summer term. During this shortened term, two class hours of work (or four or more laboratory hours of work) per week are required to represent a semester hour of credit.

Undergraduate Enrollment Status

<table>
<thead>
<tr>
<th>Credit Hours</th>
<th>Undergraduate Enrollment Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Full Time</td>
<td>12 or more</td>
</tr>
<tr>
<td>Three Quarter Time</td>
<td>9-11</td>
</tr>
<tr>
<td>Half Time</td>
<td>6-8</td>
</tr>
<tr>
<td>Less Than Half Time</td>
<td>less than 6</td>
</tr>
</tbody>
</table>

Note: Graduate and post-baccalaureate students please refer to the Graduate Catalog for enrollment status policies.

Credit Hour Limits
Undergraduate students are limited to 14 credit hours for the Summer term and to 17 credit hours for the Fall and Spring terms. The department chair and college advising office must approve overrides. Overrides may be processed at the college advising offices.

Excess Hours
All students should make every effort to enroll in and complete only those courses that are required for their major. Although educationally beneficial, selected courses, minors, (unless required for a specific major) and other obligations to the University. Satisfaction and clearance of credit or credit hours may require students to take excess hours. Excess hours may require students to pay an additional surcharge/fees or negatively impact eligibility for certain financial aid programs. Students should regularly review their degree audits and consult with an academic advisor to make sure they are not enrolling in excess courses.

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 https://my.ucf.edu. To obtain an immediate release for financial hold, payment to the Cashier’s Office must be made either in cash, credit card, cashier’s check, or money order.

Add/Drop Policy
Add/Drop is the period following their initial registration when students may make class schedule adjustments (as listed in the "Academic Calendar"). Add/Drop may be done using the myUCF system (https://my.ucf.edu) and in the college advising offices. After the Add/Drop period, no course may be added. Courses meeting for the first time after the end of Add/Drop may be dropped the next business day in the Registrar’s Office, MH 161. For withdrawal after the Add/Drop period, refer to the "Withdrawal Policy" of this Undergraduate Catalog.

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 the “Fee Schedule” in the “Financial Information” section of this Undergraduate Catalog. Audit registration is on a space-available basis at the prescribed 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 until withdraw through normal withdrawal procedures. New students must be accepted for admission. Audit forms, available on the Registrar’s 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,” the “Senior Citizen Audit Application” and “Senior Citizen Audit Registration Form” These forms are available in the Registrar’s Office (MH 161) or at the Registrar’s website: http://registrar.ucf.edu. It is necessary to attach the required forms during the last hours of registration as noted in the “Academic Calendar” online at http://www.ucf.edu/info/acad_calendar.php. Direct student expenses after the completion of registration include the campus ID card, vehicle registration and textbooks.

State of Florida 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," online at http://www.ucf.edu/info/acad_calendar.php. For waiver eligibility and application information, see "Tuition Waivers" within the "Financial Information" chapter of this Undergraduate Catalog.

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," online at http://www.ucf.edu/info/acad_calendar.php. For waiver eligibility and application information, see “Tuition Waivers” within the "Financial Information" chapter of this Undergraduate catalog.

State Tuition Exemption Program (STEP) (National Guard) Registration
State Tuition Exemption Program (STEP-National Guard) students register on a space-available basis during the last hours of registration as noted in the “Academic Calendar” online at http://www.ucf.edu/info/acad_calendar.php. For waiver eligibility and application information, see “Tuition Waivers” within the "Financial Information" chapter of this Undergraduate catalog.

State University System (SUS) Florida Transient Students
An SUS Transient Student is a student in good standing who is seeking a degree from one of the other Florida public universities (SUS) and desires to take courses with UCF. Students must complete the “SUS Transient Application Form” which is available at all SUS institutions and at http://www.facts.org. No application fee is required. The “SUS Transient Application Form” must be completed each term and should be mailed or delivered to the Registrar’s Office (MH 161), by the application deadline noted in the “Academic Calendar” online at http://www.ucf.edu/toplinks. Students should visit the Registrar’s Office website at http://registrar.ucf.edu or contact the Registrar’s Office for registration information at 407-823-3100.
Students who seek late withdrawal because they are ill must apply for the withdrawal within six months of the term from which the withdrawal is sought. Students seeking a late withdrawal because of medical conditions must follow the medical withdrawal procedure. The student's physician provides the university with the appropriate medical information, using the forms available in the office of Academic Services. A medical withdrawal must be for all classes in the term.

If a medical withdrawal is approved, a "WM" will be recorded for each course. Students who receive a medical withdrawal may be placed on hold until the university can determine that the student is ready to return. If a medical withdrawal is approved, it is expected that the student not enroll at the university in the immediately following semester, but will use that time to address the medical condition that necessitated the withdrawal. If a medical withdrawal is not approved, the request may be approved as a late withdrawal and grades of "WP" or "WF" will be recorded. A grade of "WF" will affect the calculation of the student's grade point average.

Following the close of Late Registration and Add/Drop each term, students withdrawing from courses will incur both grade and fee liability. Students with circumstances determined by the university to be exceptional and beyond their control may apply for a cancellation of enrollment and an elimination of fee liability. Exceptional circumstances include, but are not limited to sickness, death, involuntary call to military service, or administrative errors created by the university. Students must submit a petition and all supporting documentation for a Late Drop of courses to Academic Services (MH 210; 407-823-2891) within six months of the end of the term for which the Late Drop is sought.

If a 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.

Withdrawal and Academic Behavior Violations
Should an alleged violation of academic behavior standards arise before the withdrawal deadline in a term, the instructor shall notify the unit head who will notify the university registrar that the student shall not be withdrawn from the course in question. Only a written release from the instructor of the authorized party deciding a student appeal will permit withdrawal. However, if the student appeals the academic action and desires to withdraw from the course, the process shall be initiated by the student immediately in the normal university manner. Such withdrawal requests will be held in abeyance until a ruling on an appeal is obtained. If resolved in favor of the student, the withdrawal request will be processed at the time. The student's academic empowerment plan shall appropriately notify both the University Registrar and the Director of the OSRR or designee of the outcome. For additional information regarding academic behavior violations, see the current Golden Rule.

Grade System
The university uses an alphabetic system to identify student grades and other actions regarding student progress or class attendance. Beginning Fall 2001, a plus/minus grading system became effective, with a grade point equivalent per semester hour as follows:

<table>
<thead>
<tr>
<th>Grade</th>
<th>Grade Points Per Semester Hour of Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>B+</td>
<td>3.75</td>
</tr>
<tr>
<td>B</td>
<td>3.25</td>
</tr>
<tr>
<td>B-</td>
<td>3.00</td>
</tr>
<tr>
<td>C+</td>
<td>2.25</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
</tr>
<tr>
<td>C-</td>
<td>1.75</td>
</tr>
<tr>
<td>D+</td>
<td>1.25</td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
</tr>
<tr>
<td>NC - No Credit</td>
<td></td>
</tr>
</tbody>
</table>

* Available only in CHM 1032, CHM 2045C, CHS 1440, ENC 1101, ENC 1102, MAC 1105H, MAC 1105, MAC 1114, 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-.
The Grade Point Average (GPA) is the average number of grade points per semester hour attempted. GPA is computed by dividing the total number of grade points assigned by the total number of semester hours attempted, less hours resulting from NC, W, WP, and I grades. The GPA for graduation requirement is a minimum UCF 2.0 (C).

Example: A student has completed 13 credit hours for a given term. To calculate the Term GPA:

1) Multiply the number of semester hours per course by the number of grade points per grade. Then add each amount to arrive at the total number of grade points earned for that term:

- Course #1 B+ 3 semester hours X 3.25 grade points = 9.75
- + Course #2 A- 3 semester hours X 3.75 grade points = 11.25
- + Course #3 A 4 semester hours X 4.00 grade points = 16
- + Course #4 B 3 semester hours X 3.00 grade points = 9

= 13 semester hours = 46 total grade points

2) Divide the total number of grade points by the total number of semester hours earned that term:

46.00 total grade points / 13 semester hours = 3.54 GPA for that term.

UCF Cumulative GPA. If prior to this term the student had earned a total of 162 grade points for a combined 54 term hours of coursework, his or her cumulative grade point average entering this term would be 162/54 = 3.00. Including this term of coursework, the cumulative grade point average would be (162 + 46) / (54 + 13) = 3.10.

The designation of "N" will be assigned temporarily by the Registrar’s Office only in the case when a grade has not been submitted by the faculty by the grade submission deadline. The designator will be replaced by the earned letter grade at the earliest opportunity in the term that immediately follows and prior to graduation. The "N" designator may not be assigned by the instructor.

Incomplete Grade
A grade of “I” (Incomplete) may be assigned by the instructor when a student is unable to complete a course due to extenuating circumstances, and when all requirements can be completed in a short time following the end of the term. The student is responsible to arrange with the instructor for the completion of the requirements of the course. Effective with incomplete grades assigned in the Fall semester 1997 and thereafter, a student cannot graduate from the University with an “I” on the transcript. The incomplete must be changed within one year of the last day of the semester attempted or prior to graduation from the University, whichever comes first. Unresolved incomplete grades automatically will be changed to “F” by the Registrar’s Office. Unresolved “I” grades in courses graded with “S” or “U” will be converted to “U.”

Grade Change
A grade change is the change of any originally assigned grade to another grade, including grades of “I” and grades earned by administrative withdrawals. 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. A grade will not be changed after a degree has been conferred. The Registrar will change a student’s academic status if necessitated by a change of grade, except in cases of academic suspension. If a student is suspended, the Admissions and Standards Committee may review the suspension and readmit the student if the Committee decides readmission is warranted.

Grade Reports
Grades are available from myUCF at https://my.ucf.edu or from the UCF kiosks where a hard copy of grades per term may be printed via the “Print” browser function.

Attendance, Absences, or Unsatisfactory Work
Under University policy, students are not authorized to attend class unless they are on the class roll, or have been approved to audit and have paid audit fees. Students are responsible for satisfying the entire range of academic objectives as defined by the course instructor and ensuring that their class work and attendance are satisfactory. Students should understand that attendance policies and procedures vary among instructors and academic units, and they must observe any special attendance regulations stipulated by their college, school, department, program, or instructor. Reasons for acceptable absences may include illness, serious family emergencies, special curricular requirements (e.g., judging trips, field trips, professional conferences), military obligations, severe weather conditions, and religious holidays.

Students also should be excused for participation in official University-sponsored activities, such as music performances, athletic competition, or debate. Students chosen for such events, including intercollegiate athletics, band, choir, and academically related programs, shall be listed on a “Program Verification” form. Program Directors shall provide each student with a copy of this form. It is the student’s responsibility to present a copy of this form to the faculty member(s) responsible for the class from which the student will be absent. This verification is to be provided prior to the class period when possible and no later than the first class following the event. A copy of the form listing students selected to represent the University and signed by the Program Director shall be filed with the Office of Student Rights and Responsibilities (SRC 155). If further verification is needed, contact the Office of Student Rights and Responsibilities (SRC 155; 407-823-2851) or for athletic events only, Academic Services for Student-Athletes, Saber Center 123B; 407-823-3761.

Absences from classes for court-imposed legal obligations (e.g., jury duty and subpoenas) must be excused. The student may offer other sound reasons. When absences threaten a student’s satisfactory completion of a course, the instructor may report the absence to the appropriate Dean of the student’s college/school and may choose to call upon the college/school office to request additional information and insight into the significance of or reason for the absences.

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.

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. Detailed conduct regulations and procedures are presented in The Golden Rule.

A person applying for admission to UCF has declared a violation of conduct policies at a previous college or university or has been charged with a violation of the law (including traffic violations that resulted in a fine of $200 or more) may have circumstances of the case reviewed by the Office of Student Conduct (SRC 154) to consider eligibility for admission.

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 his or her religious faith will notify all of his/her instructors and be excused from classes to observe the
regional 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 he/she has been unreasonably denied an educational benefit due to his/her religious belief or practices may seek redress in accordance with Rule 6C7-5.0031, Student Grievance Procedure, as listed in The Golden Rule.

Student Classifications

Students will be classified by level, on the basis of semester hours satisfactorily earned as follows:

**Freshman:** 0-29 semester hours.

**Sophomore:** 30-59 semester hours.

**Junior:** 60-89 semester hours.

**Senior:** 90 or more semester hours, prior to completion of baccalaureate requirements.

**Post-Baccalaureate:** Any student enrolled in courses, regardless of course level (except one working toward another baccalaureate degree), who has a baccalaureate degree but has not been admitted to a graduate program. All post-baccalaureate students are considered as non-degree undergraduates for all University policies and procedures.

**Graduate:** Any student enrolled in graduate courses who has been admitted to a graduate program.

**Other Student Classifications:**

**Auditor:** A student registered for any credit course who is not seeking credit.

**Co-op Student:** A student enrolled in the Center for Cooperative Education and Applied Learning Program remains a registered student during all off-campus assignment semesters. Furthermore, there is no lapse in continuity in the co-op academic calendar: a co-op student either is on assignment or attending class during each term.

**Special Student:** A student of demonstrated academic ability who does not meet the regular requirements for admission (Early Admission, non-degree-seeking, transient, and auditor)

**Temporary:** A student who applied before the deadline and who is permitted to register and attend class pending completion of the admission file

**Transient:** Students temporarily registered (for one semester) at UCF with the approval of another university or college where they are regularly enrolled, or a UCF student temporarily in attendance at another university or college, with the approval of UCF. A UCF student may not be enrolled as a transient student in another institution during the term in which the baccalaureate degree or the A.A. degree is to be awarded.

**Limited Non-Degree Seeking:** A student earning credit, but not working on a degree program.

**Provisional:** A student entering from a regionally unaccredited high school, college, or university may be admitted on provisional status where appropriate. By obtaining a minimum 2.0 GPA (“C” average) at the end of the first term of attendance, the provisional status will be removed. Earning less than a “C” (2.0) average the first term would result in disqualification.

**Academic Honors**

**President’s Honor Roll Certificate (Full-Time Award)** The President’s Honor Roll Certificate (Full-Time Award) is awarded in recognition of scholastic honors to degree-seeking undergraduate students who maintain a 4.0 GPA in two consecutive part-time terms. The student must complete at least 15 hours, with no more than 11 in each consecutive term, exclusive of satisfactory/unsatisfactory course work, and not earn any “I,” “U,” “N,” “NC” or “WF” grades during a term. Hours utilized in the awarding of a President’s Honor Roll Certificate may not be utilized in the determination of a subsequent certificate.

**Dean’s List**

The Dean’s List is compiled in recognition of scholastic honors to degree-seeking undergraduate students who earn a minimum 3.4 GPA, complete a minimum of 12 credit hours, earn no grade less than “C” (2.0) and no “I,” “U,” “N,” “NC” or “WF” grades during a term.

**Baccalaureate Honors**

The University shall confer baccalaureate honors recognition on those students who have completed a minimum of 48 semester hours at UCF and who:

1. Attain an overall grade point average (this includes transfer credit) that is in the upper 10 percent of the range established by all students graduating in the same college/school during the previous two years;
2. Honors awarded will be:
   - **Summa Cum Laude** for those students in the upper 2.5 percent;
   - **Magna Cum Laude** for those students in the upper five percent, but not in the upper 2.5 percent;
   - **Cum Laude** for those students in the upper 10 percent, but not in the upper five percent.

Records for the term of graduation are incomplete at the time the Commencement Program is printed. Identification of these students at graduation therefore is presumptive of honors and not conclusive, since final term grades may result in changes in relative rankings.

Consult the Academic Honors list at [http://pegasus.cc.ucf.edu/~ips/character/honorscutpoints.html](http://pegasus.cc.ucf.edu/~ips/character/honorscutpoints.html) for the most up-to-date UCF Honors minimum GPA requirements.

**Grade Forgiveness**

Grade Forgiveness offers a student the opportunity to retake a course and earn a higher grade that will be substituted for the previous grade. “Grade Forgiveness Request Forms” are available in the Registrar’s Office (MH 161) or on the Registrar’s website, [http://registrar.ucf.edu](http://registrar.ucf.edu). Requests must be submitted no later than the last day of Late Registration and Add/Drop for the term/session in which the student has registered for the course being repeated. The following policies apply:

1. Grade Forgiveness is limited to two courses;
2. **Grade Forgiveness may not** be used twice for the same course;
3. Grade Forgiveness will only be awarded if the original and repeated courses both are taken at UCF;
4. **All grades will remain on the student’s official transcript. The original course grade will be marked with a “T” to indicate that the course subsequently has been repeated, or a note describing the initial attempt, and the repeat course grade will be marked with an “R.” The original grade always will appear on the transcript but only the repeated course grade will be calculated into the GPA;**
5. If it is determined that the student is ineligible for the Grade Forgiveness policy, neither a refund of fees nor automatic withdrawal from the course will be made;
6. If a student applies for Grade Forgiveness and later withdraws, or receives an “IP” grade or “NC” grade in the course, the attempt will count as one of the allotted Grade Forgiveness attempts, and the GPA will calculate both grades.
7. **UCF does not** honor Grade Forgiveness granted at other institutions unless it is part of an Associate in Arts or a specific statewide articulated Associate in Science degree transferred from a Florida Public Community College or State University. Grade forgiveness awarded within a bachelor’s degree from a Florida State System institution is not honored at UCF. UCF’s Grade Forgiveness policy may not be honored by other colleges, universities, professional schools, or national testing associations;
8. Due to the two-course limit, a student who has repeated two or
more courses at a Florida Public Community College or State
University and included those courses in the transfer of an AA or
a specific statewide articulated AS degree will not be granted
any Grade Forgiveness at UCF;

9. Grade Forgiveness awarded for repeated courses will not
retroactively alter any previous academic action (i.e. academic
probation or disqualification). In addition, no academic records
can be altered after a student graduates;

10. Grade Forgiveness is not retroactive and, therefore, may not be
used for a course repeated before Fall 1981. If a student who
repeated a course at UCF before 1981 and did not use the pre-
vious forgiveness policy may repeat the course again. In this
case, the lower of the previous two grades will be forgiven. This
special circumstance is the only one in which a student will be
allowed to repeat a course more than once; and,

11. With prior approval from the Dean’s office in which the course is
offered, a student can only substitute a course different from the
original one if: 1) the substitute course reflects a change in pre-
fic, number, hours, or title but not in substance; or 2) the substi-
tute course replaces a course no longer offered by UCF.

Repeated Enrollment in Same Course: Beginning Fall 1997, a stu-
dent enrolled in the same undergraduate college credit course more
than twice shall pay matriculation at 100% of the full cost of instruc-
tion (Non-Florida Resident rates).

Academic Standing
All academic actions are shown on myUCF at https://my.ucf.edu
and on the transcript. The action is generated due to course completion.
Changing a course grade does not necessarily change academic
actions. An exception can be made when an error is committed and is
so stated by the instructor on the “Change of Grade Request Form.”

Academic Probation
Action taken when a student’s UCF cumulative GPA drops below 2.0.
Academic Probation will continue until the current term and UCF
cumulative GPA reach 2.0 or better.

First-time-in-college students may be admitted on Academic
Probation at the discretion of the Undergraduate Admissions Office
or the Admissions and Standards Committee. Transfer students may
be admitted on Academic Probation at the discretion of the
Undergraduate Admissions Office or the Admissions and Standards
Committee. Academic Probation is intended to inform students mak-
ing unsatisfactory progress of their need to alter study habits and
seek additional counseling. Early recognition will indicate to the stu-
dent the possible jeopardy to academic goals and will also allow an
opportunity to demonstrate acceptable performance.

Disqualified (First Suspension)
A student on Academic Probation is disqualified upon failure to achieve
a minimum 2.0 GPA during the subsequent term. A student who is disqualified may not enroll at the University for two semes-
ters following disqualification. Readmission after two semesters is
not automatic. Disqualified students are normally expected to com-
plete the Florida AA degree before petitioning for readmission. A dis-
qualified student must submit an application for readmission support-
ed by a letter documenting the reasons for previous academic diffi-
culties, clear evidence of satisfactory academic performance since
leaving the university and plans for achieving a GPA of 2.0 or better.
The total record will be reviewed and action on readmission will be
taken by the University Registrar. Any Disqualified student whose UCF
grade point deficiency is equal to or greater than 15 grade
points is not eligible for readmission. For readmission purposes
only, “grade point deficiency” is defined as the number of UCF credit
hours earned with a “B” (3.0 GPA) grade that a student requires to
raise his or her UCF grade point average to 2.0.

Exclusion (Second Suspension or more)
A student readmitted following disqualification who fails to achieve a
minimum 2.0 GPA is excluded from the University. Exclusion is most
serious and students are not eligible for readmission after
Exclusion (unless in the opinion of the Admissions and Standards
Committee there is documented extenuating circumstances).

Good Standing
Good standing indicates only that the student is meeting the mini-
mum academic standard for retention by the University (minimum
term GPA, 2.0). To meet graduation requirements, however, the stu-
dent must have a minimum UCF GPA of 2.0.

Earning Credit While Disqualified or Excluded
A student disqualified or excluded while a freshman or sophomore who
subsequently receive an A.A. degree with a minimum “C” average (2.0
GPA) on all college work attempted from a Florida public community
college has the right to appeal for readmission, in accordance with
standard University policies. However, readmission is not guaranteed,
and the student seeking readmission is required to follow all aca-
demic regulations and procedures associated with readmission after
suspension.

Readmission
A student must apply for readmission to the Registrar’s Office (MH
161) if:
1) the student has not enrolled at UCF for two consecutive semes-
ters (not including the Summer term);
2) the student has been academically suspended from UCF;
3) the student failed to enroll or withdrew from all classes during the
readmitted term; or,
4) the student has previously attended, or is currently enrolled at
UCF, as “degree-seeking” and desires to pursue a second bach-
elor’s degree.

The application deadline for readmission is as follows: for Summer,
April 15; for Fall, July 15; and for Spring, November 15.

Readmission Following Non-Enrollment for Two
Consecutive Semesters
The student must complete and submit the “Readmission Application
Form,” available at the Registrar’s Office or on the web at http://regis-
tor.ucf.edu. If the student has attended another regionally accred-
ited institution since leaving UCF, the student must request an official
transcript be sent to the Registrar’s Office. If the student was previ-
ously admitted to a UCF limited-access program, the student will be
placed in pending status for that major and must apply to the college
for readmission to the program. Plus or minus grades will transfer for
course work earned Fall 2001 and after using UCF’s grade point sys-
tem.

Readmitting students classified as a “Florida resident” during the last
term at UCF who have resided outside of the State of Florida for one
year may not be eligible for readmission as a Florida resident for
tuition purposes. Students approved for readmission may be classi-
ﬁed as a non-resident for tuition purposes and must submit docu-
mentaion to the Registrar’s Office establishing his or her eligibility
for Florida residency for tuition purposes. For eligibility require-
ments, refer to "Florida Residency for Tuition Purposes within the
"Financial Information" chapter of this Undergraduate Catalog.

Any readmitted student whose UCF GPA is less than 2.0 at the time
of the last enrollment at the University will be readmitted on
"Academic Probation." All applicants seeking readmission who have
attempted course work at another nationally accredited institution
since last attending the University will be required to be in "Good
Standing" (minimum 2.0 GPA) at the last institution attended with no
allowance for grade forgiveness and must be eligible to return to the
last institution attended.

Readmission Following Suspension: Disqualification,
with a Grade Point Deficiency of Less than 15 Grade
Points
A student who has been academically disqualified by UCF (with a
grade point deficiency less than 15 grade points) who has completed
the two semester academic suspension period may petition for read-
mission by submitting the "Readmission Application Form" to the
Registrar’s Office. For readmission purposes only, grade point defi-
ciency is defined as the number of UCF credit hours earned with a
“B” (3.0 GPA) grade that a student requires to raise his or her UCF
grade point average to 2.0. A student’s grade point deficiency is cal-
culated when the student applies for readmission. The petitioning
student must satisfy the following requirements before a decision will be
made:
1. Submit a written statement indicating the reason for the previous
academic difficulties and a plan for ensuring success in future terms:
Academic Regulations and Procedures

a. The written statement should be limited in length to one typed page; it must be signed and dated, and include the student's UCF Personal Identification Number (PID).

A "Readmission Application Form" not accompanied by the required written statement will not be reviewed.

2. Contact the major's department/school/college to establish a plan to complete the program of study. The student must obtain the department/school/college's favorable recommendation of this plan in writing; and,

3. Submit to the Registrar's Office official transcripts from all other schools attended during suspension (if applicable).

The Registrar's Office will review the readmission application only when it receives all of the documents listed above. A student denied readmission by the Registrar's Office may appeal that decision to the Admissions and Standards Committee. See 'Right of Appeal' below for details. Disqualified students are limited to one readmission appeal during the disqualification period.

Readmission Prior to Completion of the Required Suspension

A student who has been academically disqualified by UCF who has not completed the academic suspension period is not eligible for readmission to the University. Students may appeal for an exception to this policy to the Admissions and Standards Committee. See 'Right of Appeal' below for details. Disqualified students are limited to one readmission appeal during the disqualification period and one appeal per 12-month period following the disqualification period.

Readmission Following Suspension: Disqualification (with a Grade Point Deficiency of 15 or more Grade Points) or Exclusion

Students who are disqualified (with a grade point deficiency of 15 grade points or more) or who have been excluded are not eligible for readmission to the University. The Registrar's Office will deny readmission to ineligible students. A student denied readmission by the Registrar's Office may appeal that decision to the Admissions and Standards Committee. See 'Right of Appeal' below for details. For readmission purposes only, grade point deficiency is defined as the number of UCF credit hours earned with a "B" (3.0 GPA) grade that a student requires to raise his or her UCF cumulative grade point average to 2.0. A student's grade point deficiency is calculated when the student applies for readmission.

Dropping or Withdrawing During Readmitted Term

Disqualified or excluded students who drop or withdraw from all courses during the readmitted semester for whatever reason must apply for readmission.

Limitations on the Number of Readmission Appeals

Disqualified students are limited to one appeal for an exception to University policy to the Admissions and Standards Committee during the disqualification period and one appeal per 12-month period following the disqualification period.

Excluded students are limited to one appeal for an exception to University policy to the Admissions and Standards Committee per 12-month period.

Non-Academic Admission Clearances

According to the Florida Board of Regents Rule 6C-6.001(2) "...if determined not to be in the best interest of the University to admit an applicant because of past misconduct the University may do so." This authorizes universities to refuse readmission to applicants due to past misconduct. The University further requires the Vice President of Student Development and Enrollment Services or his or her designee to review all applications disclosing information regarding any prior criminal conviction or conduct problem at another institution and to make a decision as to whether the admission of this applicant will be in the best interest of the University. This statement describes the procedure and assigns responsibility for the review of these applications for admission. Applicants who fail to disclose any prior criminal conviction or conduct problem at another institution and such fact is subsequently discovered by the University shall be denied admission or readmission, or other academic and/or disciplinary action up to and including expulsion.

Appeal

There is no appeal of the University's decision not to admit or readmit a student based on past misconduct. According to the Florida Administrative Code 6C-6.001(4): "Applicants denied admission shall be given notice of the denial within a reasonable period of time following the decision. Upon the applicant's written request, the University shall provide the reasons for the rejection in writing."

Admissions and Standards Committee

The Admissions and Standards Committee is a reporting committee of the Faculty Senate. Its membership includes faculty and non-faculty representatives of the Faculty Senate, several academic colleges, the Division of Student Development and Enrollment Services, and Student Government Association. The Admissions and Standards Committee meets regularly to consider appeals from: 1) persons denied admission; 2) students denied readmission; 3) students requesting to continue in school, but who have failed to meet CLAST requirements; and 4) student appeals of University academic actions, policies or standards.

Appeal

There is no appeal of the University's decision not to admit or readmit a student based on past misconduct. According to the Florida Administrative Code 6C-6.001(4): "Applicants denied admission shall be given notice of the denial within a reasonable period of time following the decision. Upon the applicant's written request, the University shall provide the reasons for the rejection in writing."

Right of Appeal

A student who is ineligible for readmission or has been denied readmission may appeal for an exception to University policy to the Admissions and Standards Committee. The appealing student must satisfy the following requirements before the Registrar's Office will forward the appeal to the Committee:

1. Complete the "Application for Readmission as an Exception to University Policy Form," available at the Registrar's Office (MH 161);

2. Prepare a written statement specifying the extenuating circumstances that lead to their poor academic performance or academic dismissal.

   a. The written statement should be limited in length to one typed page; it must be signed and dated, and include the student's UCF Personal Identification number (PID).

A "Application for Readmission as an Exception to University Policy" form not accompanied by the required written statement will not be forwarded to the Admissions and Standards Committee;

3. Provide documents which support and/or verify the extenuating circumstances (if applicable);

4. Supply official transcripts from all other schools attended during the suspension (if applicable);

5. Order one official copy of the UCF official transcript ($5 per copy). The Registrar's Office will forward this transcript to the Admissions and Standards Committee.

6. Submit ten stapled packets of appellant materials to the Registrar's Office (MH 161) by 12:00 p.m. (noon) Monday prior to the scheduled Admissions and Standards Committee meeting. The packet must contain the following documents, arranged in the following order:

   a. A completed "Application for Readmission as an Exception to University Policy Form";
   
   b. Written statement indicating the extenuating reasons for the previous academic difficulties and a plan for ensuring success in future terms;
   
   c. Any supporting documentation as directed by the college, school or other University personnel;
   
   d. Any additional supporting documentation (optional); and,
Academic Amnesty Program
Effective Fall 2004, the Academic Amnesty Program provides undergraduate students who are not eligible for readmission for academic reasons the opportunity to readmit to UCF after five or more years of separation. This program allows the student to nullify up to two consecutive terms worth of UCF coursework from his or her UCF grade point average. Students may not select specific courses within the two identified terms. If the student satisfactorily completes the Academic Amnesty Program, the University will remove from the student's UCF GPA all UCF coursework for which the student enrolled during the selected consecutive terms. While grades nullified by satisfactory completion of the Academic Amnesty Program are not used in calculating the student's UCF GPA, all course work will remain part of the student's permanent record.

To apply for entrance into the Academic Amnesty Program, the student must:

1) Gain the written support for the Academic Amnesty Program from the student’s college or school and present to the Admissions and Standards Committee an academic plan of action approved by the college advising office. This plan will include the following:
   a. The specific achievements of the student’s academic history to be nullified by satisfactory completion of the Academic Amnesty Program;
   b. Approved courses in which the student will enroll during the two terms that comprise the Academic Amnesty Program; and
   c. Any additional requirements mandated by the college advising office (i.e., academic advising or mentoring, required tutoring or academic support services, etc.).
   d. Complete and submit an Academic Amnesty Agreement to the Admissions and Standards Committee.

2) The UCF Admissions and Standards Committee will determine a student’s eligibility for entrance into the Academic Amnesty Program. The student will be required to appear before the Admissions and Standards Committee.

Obtain the Academic Amnesty form at registrar.ucf.edu.

Athletic Eligibility and Retention Committee
The Athletic Retention and Eligibility Committee (AERC) has oversight of the athletic participation of students who engage in intercollegiate athletics. It relies on information gathered from the Office of Athletic Compliance, the Office of Academic Services for Student-Athletes, coaches and the individual student. Student-athletes who desire to continue their athletic participation while being on academic probation, must have the written support of their coach, complete a written document stating their methods and dedication to improve their level of academic achievement and the approval of the AERC. The committee shall review each applicant's academic potential and current status and determine conditions for the individual's degree of continued participation in intercollegiate athletic activities.

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 (MH 161). Graduate students must submit the form to the Graduate Studies Office (MH 230). Current UCF employees and those 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 (2565 Research Parkway). The “Change of Name” form is available from the Registrar’s Office at MH 161 or online at http://registrar.ucf.edu.

Address and E-Mail Changes
The student’s address is obtained from the “Application for Admission or Readmission.” It is the student’s responsibility to make appropriate changes to the address as they occur. Address and e-mail changes can be made on myUCF (https://my.ucf.edu). Address and e-mail changes also can be made by writing the Registrar’s Office, P.O. Box 160114, Orlando, FL 32816-0114 or fax to 407-648-5022. Written requests must be signed and the student identification number provided.

Transcript Requests
Requests for official 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 at http://registrar.ucf.edu. 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 $5 per transcript charge is assessed for each transcript request. Payment for official transcripts is required at the time of request and may be satisfied by check, cash or money order (made payable to UCF), credit card, or UCF Card. Requests received by mail must be accompanied by 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 http://registrar.ucf.edu 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 $5.00 per reordered transcript fee must be submitted with the reorder request. Grades are available from myUCF at https://my.ucf.edu.

Third Attempt Course Repeat Surcharges
All students enrolled in undergraduate courses for the Fall 1997 semester and beyond are subject to an additional surcharge fee when they enroll in the same undergraduate college credit course three or more times. Completed courses, withdrawals, and courses with incomplete grades are counted as attempts, including courses repeated in order to raise the GPA or to achieve a specific grade. Courses that specify they may be repeated for credit are exempt. Students seeking exemptions for extenuating circumstances or financial hardship may submit a written petition with documentation to the Fee Appeals Committee, Student Accounts Office (MH 107). Exemptions to the third attempt surcharge will be considered through a Fee Appeal Process.

Exceptions to the repeat course fee requirement shall be based on extenuating circumstances, or financial hardship.

Extemuating Circumstances
Those circumstances determined by the University to be exceptional and beyond the control of the student. These may include, but not be limited to, the following:

1) Medical condition or serious illness preventing completion;
2) Death of an immediate family member;
3) Involuntary call to active duty; or
4) Other emergency circumstances or extraordinary conditions.

Special Limitation: students who withdraw or fail a class due to extenuating circumstances may be granted an exemption only once for each class.

Financial Hardship:
Should include, but not be limited to, the following:

1) Qualification for federal need-based financial aid; or
2) Other documented financial hardship may be
Academic Regulations And Procedures

considered.
For details, contact the Student Accounts Office (MH 107) at 407-823-2433.

Major, Minor, Undergraduate Certificate Policies

Policy for Undeclared Students

All students at the University of Central Florida are expected to officially declare a major prior to earning 45 college credit hours (this includes credits earned from CLEP, Dual Enrollment, AP and IB). An administrative hold to prevent future university registration will be placed on the records of all students that have not declared a major. Students must meet with an academic advisor (within Student Development and Enrollment Services, the Colleges, or Regional campuses) to have the hold released.

 Majors

The University assigns the major that the student indicated on the "Application for Admission or Readmission." It is the student's responsibility to make appropriate major changes. Students who change majors between different colleges (including the Rosen College of Hospitality Management) must adopt the most current catalog. Students changing from a declared major to an "Undeclared" or "Unidentified" major also must adopt the most current catalog. For each of these students, the University automatically will update the catalog year when processing the change in major. Students may retain their catalog when changing tracks/concentrations within the same major (e.g., English: Language to English: Creative Writing), or when moving from a "Pending" category to the equivalent major (e.g., "Business Pending" to "Accounting"). If the new major is a different subject from the "pending" major (e.g., "Business Pending" to "History"), the student must adopt the most current catalog and the University automatically will update the catalog year when processing the change in major. If they have not interrupted residency, students entering UCF in an "Undeclared" or "Undecided" category may retain their catalog when initially selecting a major. The "Undergraduate Major Change Form" is available at the college and school advising offices of from the Registrar's Office website at http://registrar.ucf.edu. Forms may be submitted in person to the college/school advising offices or by mail or in person to the Registrar's Office (MH 161). Requests must include the student's identification number and signature.

 Minors

A minor is a complement to a bachelor's degree program/major requiring at least 18 credit hours in a field. A student may declare a minor at any point during the first term of enrollment up to but no later than the submission of the "Intent to Graduate Form." Students strongly are urged to declare a minor as early as possible. Minors are optional unless required by your specific major. All graduation requirements (e.g., the minor and major) must be from a single UCF catalog for which a student is eligible. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second degree is earned, certification will not be made at a later time even if additional courses have been completed. The "Undergraduate Minor Declaration/Change Form" is available at the college and school advising offices. Forms may be submitted in person to the college/school advising offices or by mail or in person to the Registrar's Office (MH 161). Requests must include the student's identification number and signature.

Undergraduate Certificates

An undergraduate Certificate is a supplement to the bachelor's degree program/major. Certificates are optional. Effective Summer 2005 students may receive an undergraduate Certificate by completing all requirements for an undergraduate Certificate program. Students must be admitted in a degree seeking program to be eligible to receive an undergraduate Certificate. Certificate programs may not be taken independently of a degree program. All graduation requirements (i.e., the certificate and major/minor) must be from the same UCF undergraduate catalog for which a student is eligible. Certificates may be certified at any time during the student's undergraduate career. Some certificates may restrict awarding the certificate to time of degree completion. The undergraduate Certificate is awarded upon completion of the certificate requirements as determined by completing all requirements in the specific certificate. The Undergraduate Certification form is available at the college and school advising offices.

Student Records

Student records submitted become the property of the University and cannot be returned to the student or released to a third party. Copies of student records will be released only upon receipt of a written request signed by the student. Student records are stored in paper form or are digitally scanned. Once the student has been absent from the University for three academic years, all records are transferred to optical disk storage and the paper copies destroyed.

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 official, 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; and

2. The right 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 the record that he or she believes is inaccurate or misleading. The student should write the University official responsible for the record, clearly identifying 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 his or her 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; and

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 his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her 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 Information

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
- e-mail address
- date of birth
- major field of study
- dates of attendance

58 UNIVERSITY OF CENTRAL FLORIDA 2006-2007 Undergraduate Catalog
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.” To do this, students must complete the “Directory Disclosure/Release Authorization” form available at the Registrar’s Office (MH 161) or online at http://www.registrar.ucf.edu, requesting that this information be withheld. The Golden Rule outlines the University procedures for confidentiality. For additional information describing FERPA policy, enter the Department of Education Family Policy Compliance Office website at http://www.ed.gov/offices/OM/fpc/o/

Higher Education Act
Lists, descriptions, and sources of information required for disclosure under the Higher Education Act may be obtained from the Registrar’s Office (MH 161) or from registrar.ucf.edu/hea/

Accelerated Education Opportunities
The University of Central Florida provides a number of options by which students may shorten the time required to complete the baccalaureate degree. These options permit the University to recognize high levels of academic achievement and acquisition of knowledge prior to or during attendance at the University. Procedures that may be used include the Advanced Placement Program (AP), the College Level Examination Program (CLEP), University Course Credit by Examination, DANTES, and the International Baccalaureate. A maximum of 45 semester hours in any combination of extension, AP, IB, correspondence, CLEP, Armed Forces Service School Credits, and University Credit by Examination will be accepted by the University for application toward an undergraduate degree. Credit earned by acceleration mechanisms also applies toward satisfaction of the Summer Attendance Requirement. In addition, there are accelerated Undergraduate - Graduate Programs linking the bachelors and Master’s degree listed in the catalog.

At the time this catalog went to press, the Florida Department of Education was reviewing test credit policies. For updated information please visit http://www.registrar.ucf.edu/testcredit.html.

### ADVANCED PLACEMENT EXAMS

<table>
<thead>
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<th>Exam</th>
<th>Score of 3</th>
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<th>Score of 4</th>
<th>Score of 5</th>
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<td>Economics: Micro</td>
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<td>English Language and Composition</td>
<td>ENC 1101</td>
<td>COM Found 1</td>
<td>ENC 1101 and 1102</td>
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<td>SCI Found 1 &amp; 2</td>
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<td>Environmental Science</td>
<td>ISC 1051</td>
<td>SCI Found 2</td>
<td>SCI Found 3</td>
<td>SCI Found 3</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>European History</td>
<td>EUH 1009</td>
<td>SCI Found 1</td>
<td>EUH 2000 and 2001</td>
<td>SCI Found 1 &amp; 2</td>
<td>CUL &amp; HIS Foud 1</td>
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<tr>
<td>Government and Politics: Comparative</td>
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<td>Same as 3</td>
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<td>Government and Politics: United States</td>
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<tr>
<td>Music Theory</td>
<td>MUT 1001</td>
<td>MUT 1111 if composite score is 3 or higher</td>
<td>MUT 1214 if both aural and non-aural subscores are 3 or higher</td>
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<td>Physics B</td>
<td>PHY 2053C</td>
<td>SCI Found 1</td>
<td>PHY 2053C and 2054C</td>
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<td>Physics C: Electricity / Magnetism</td>
<td>PHY 2054C</td>
<td>SCI Found 1</td>
<td>PHY 2049C</td>
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<td>Psychology</td>
<td>PSY 2012</td>
<td>SCI Found 1</td>
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<td>SCI Found 2</td>
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<td>Statistics</td>
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<td>MAT Found 2</td>
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<tr>
<td>Studio Art: 2-D Design Portfolio</td>
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<tr>
<td>Studio Art: 3-D Design Portfolio</td>
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<td>United States History</td>
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<td>World History</td>
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<td>CUL &amp; HIS Found 1</td>
<td>SCI Found 1</td>
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<td>SCI Found 1</td>
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</tbody>
</table>
Language B (most common)
IB Diploma recipients (standard or higher level) earn a minimum of one semester (3 credits) of language credit at the Elementary Language II or equivalent level (usually 1121) level for a score of 4. Diploma recipients (standard or higher level) and non-diploma recipients (higher level only) who score 5-7 earn a minimum of two semesters (min. 6 credits) of Elementary Language II and Intermediate Language I or their equivalents (usually 1121/12200) level. No literature credit will be awarded for International Baccalaureate Language B exams.

INTERNATIONAL BACCALAUREATE

<table>
<thead>
<tr>
<th>Exam</th>
<th>GEP Usage</th>
<th>Exam</th>
<th>GEP Usage</th>
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<td>BSC 1005/1005L SCI Found 2</td>
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<tr>
<td>Chemistry</td>
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<td>CHM 1020 &amp; 1020L SCI Found 2</td>
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<td>Computer Science</td>
<td>CGS 1078 MAT Found 2</td>
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<td>CGS 1078 MAT Found 2</td>
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<td>Design Engineering</td>
<td>ETI 1410</td>
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<td>ETI 1410</td>
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<td>English A1</td>
<td>ENC 1101 COM Found 1</td>
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<td>Further Mathematics</td>
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<td>Advanced Mathematics</td>
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<td>History</td>
<td>WDH 1030</td>
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<td>Math Methods</td>
<td>MAC 1105 MAT Found 1</td>
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<td>Math Studies</td>
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<td>Mathematics</td>
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<td>Music</td>
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<td>Philosophy</td>
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<td>Physics</td>
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<td>PHY 1020C SCI Found 1</td>
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<tr>
<td>Social Anthropology</td>
<td>ANT 2410</td>
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<tr>
<td>Visual Arts</td>
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* This use for General Education applies only to I.B. credit.

**COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)**

<table>
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<th>Exam</th>
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<td>Accounting, Principles of</td>
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<td>Algebra, College</td>
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<td>Algebra-Trigonometry, College</td>
<td>MAC 1147 MAT Found 1</td>
<td>Algebra-Trigonometry, College</td>
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<tr>
<td>American Government</td>
<td>POST 2041</td>
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<td>POST 2041</td>
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<tr>
<td>American Literature</td>
<td>AML 1000</td>
<td>American Literature</td>
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<td>Biology, General</td>
<td>BSC 1005</td>
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<td>Business Law, Introduction</td>
<td>BUL 1241</td>
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<td>Calculus with Elementary Functions</td>
<td>MAC 2233 MAT Found 1</td>
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<tr>
<td>Chemistry, General</td>
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<td>CHM 1020 SCI Found 2</td>
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<td>Educational Psychology, Introduction to English Composition with Essay</td>
<td>EDP 1002 SCI Found 2</td>
<td>Educational Psychology, Introduction to English Composition with Essay</td>
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<td>History of the United States I: Early Colonizations to 1877</td>
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<td>History of the United States I: Early Colonizations to 1877</td>
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<td>History of the United States II: 1895 to Present</td>
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<td>History of the United States II: 1895 to Present</td>
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<td>History of the United States III: Human Development</td>
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<td>History of the United States III: Human Development</td>
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<td>Information Systems and Computer Applications</td>
<td>CGS 1077 MAT Found 2</td>
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<td>Macroeconomics, Principles of Management, Principles of Marketing</td>
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<td>Microeconomics, Principles of Psychology, Introductory</td>
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<td>Microeconomics, Principles of Psychology, Introductory</td>
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<td>Sociology, Introductory</td>
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<td>Trigonometry</td>
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<td>Western Civilization I: Ancient Near East to 1648</td>
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<tr>
<td>Western Civilization II: 1648 to Present</td>
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<td>Western Civilization II: 1648 to Present</td>
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</table>

**60 UNIVERSITY OF CENTRAL FLORIDA 2006-2007 Undergraduate Catalog**
College Level Examination Program (CLEP)

(see table on previous page)

Credit is awarded for scaled scores of 50 or higher on computer-based CLEP exams taken after July 1, 2001. A percentile score of 50 or higher is required on CLEP examinations taken prior to July 1, 2001. CLEP credit may be earned by CLEP subject examinations. Successful completion of CLEP examinations means performance at or above the minimum qualifying score. CLEP credit cannot be used to reduce a grade point deficiency. For example, CLEP cannot be substituted for a grade awarded for a previously completed course.

Awarding of CLEP credit is subject to the conditions listed below:

- Credit may be awarded in the CLEP subject examination area, provided the student: a) is not within 60 semester hours of graduation; b) has not previously received comparable college course credit in the CLEP examination area; c) does not receive comparable college credit in the CLEP examination area in the same term the examination is taken or in a subsequent term; d) has not previously completed, failed, or received credit by UCF (transfer or otherwise) in a more advanced course in the examination area; and e) does not complete nor receive credit by UCF (transfer or otherwise) in a more advanced course during the semester in which the CLEP examination is taken.

The table labeled “College Level Examination Program” provides information related to the CLEP examination areas and subareas for which credit may be awarded. In addition, this table delineates the minimum qualifying score and the UCF course for which each examination can substitute.

### CAMBRIDGE AICE EXAMS

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<td>Art and Design (A-Level)</td>
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<td>Computing (A-Level)</td>
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<td>History (AS- or A-Level)</td>
<td>Three credits for each successfully passed, subject to institutional review</td>
<td>same</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Foreign Language (Language Exams, AS or A-Level)</td>
<td>At least one semester of language credit up to elementary II level (usually 1121)</td>
<td>At least one semester of language credit up to intermediate II level (usually 2201)</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Foreign Language (Literature Exams, AS or A-Level)</td>
<td>One semester of literature survey credit</td>
<td>same</td>
<td></td>
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</tr>
<tr>
<td>Mathematics (AS-Level)</td>
<td>MAC 1147</td>
<td>MAT Found 1</td>
<td></td>
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</tr>
<tr>
<td>Mathematics (A-Level)</td>
<td>MAC 2311</td>
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<tr>
<td>Physics (AS-Level)</td>
<td>PHY 1020C</td>
<td>SCI Found 1</td>
<td></td>
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</tr>
<tr>
<td>Physics (A-Level)</td>
<td>PHY 2053C</td>
<td>SCI Found 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Psychology (AS-Level)</td>
<td>none</td>
<td>SOC Found 2</td>
<td>same</td>
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</tr>
<tr>
<td>Psychology (A-Level)</td>
<td>PSY 2012</td>
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<tr>
<td>Sociology (AS-Level)</td>
<td>none</td>
<td>SOC Found 2</td>
<td>same</td>
<td></td>
</tr>
<tr>
<td>Sociology (A-Level)</td>
<td>SYG 2000</td>
<td>SOC Found 2</td>
<td>same</td>
<td></td>
</tr>
</tbody>
</table>

* If the student has previous credit for ENC 1101, credit will be awarded for ENC 1102.
# If the student has previous credit for ENC 1101 and ENC 1102, credit will be awarded for LT 1106.

CLEP Language Examinations

A score of 50 on any of the language exams earns a minimum of one semester (3 credits) of Elementary Language I or equivalent level (generally numbered 1120). A score at or above the second CLEP threshold level (currently 52 for French, 63 for German, or 54 for Spanish) earns a minimum of two semesters (6 credits) of Elementary Language I and II or equivalent level (generally numbered 1120-1121). No literature credit should be awarded for CLEP foreign language exams.

Credit by Examination

Regularly enrolled (excludes transient and non-degree) undergraduate students at the University of Central Florida may obtain credit for specific University courses through departmental examinations. A student who believes he or she has acquired the knowledge and/or skills of a specific University course should consult his or her advisor and the chair of the department in which the course is offered to arrange for an examination. Degree credit will be awarded for those courses successfully completed by departmental examination. Credit by examination may not be used to reduce the 30 semester hours residency requirement. Credit by examination will not be given for any course lower in content than courses in the same discipline in which students are currently enrolled or which they have already completed or failed. Permission to take an examination is approved by the chair of the department and the dean of the college in which the course is offered.

Cambridge AICE Exams

(see table below)

The Advanced International Certificate of Education (AICE) program is an international, advanced secondary curriculum and assessment program equivalent to the British system of "A-Levels." Information about the program, including course syllabi, can be found online at [http://www.cie.org.uk/a_and_s/gce_a/index.html](http://www.cie.org.uk/a_and_s/gce_a/index.html).
DANTES Examination Credit
(see table below)
The University will award credit to students presenting qualifying scores in DANTES examinations. The table labeled "DANTES Subject Standardized Tests (DSST)" provides information related to the Dantes Examination credit. For additional information: www.getcollegecredit.com.

Excelsior College Examinations
(see table below)
The table labeled "Excelsior College Examinations" provides information related to the Excelsior examination areas and subtest areas for which credit is awarded. More detailed information about Excelsior College Examinations, including detailed test descriptions, can be found online at http://www.excelsior.edu.

DANTES SUBJECT STANDARDIZED TESTS (DSST)

<table>
<thead>
<tr>
<th>Exam Credit</th>
<th>Course Number</th>
<th>GEP Usage</th>
<th>Passing Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Math</td>
<td>QMB 1001</td>
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<td>C</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>CCJ 1000</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Environment and Humanity</td>
<td>EVR 1017</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Foundations of Education</td>
<td>EDF 1000</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Fundamentals of Counseling</td>
<td>PCO 1202</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Here's to Your Health</td>
<td>HSC 1100</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Human Resources Management</td>
<td>MAN 1300</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Human/Cultural Geography</td>
<td>GEO 1400</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Introduction to Business</td>
<td>GEB 1011</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Introduction to Law Enforcement</td>
<td>CCJ 1000</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Lifespan Developmental Psychology</td>
<td>DEP 2004</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Money and Banking</td>
<td>BAN 1501</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Physical Geology</td>
<td>GLY 1000</td>
<td></td>
<td>C</td>
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<tr>
<td>Principles of Financial Accounting</td>
<td>ACG 1001</td>
<td>C</td>
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<tr>
<td>Principles of Physical Science I</td>
<td>PSC 1121</td>
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<td>Principles of Statistics</td>
<td>STA 1014</td>
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EXCELSIOR COLLEGE EXAMINATIONS TABLE

<table>
<thead>
<tr>
<th>Exam Title</th>
<th>Course Number</th>
<th>GEP Usage</th>
<th>Passing grade for credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abnormal Psychology</td>
<td>CLP 1140</td>
<td></td>
<td>B</td>
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<tr>
<td>English Composition</td>
<td>ENC 1101 for C</td>
<td>COM Found</td>
<td>C</td>
</tr>
<tr>
<td></td>
<td>ENC 1101/ 1102 for B</td>
<td>COM Found</td>
<td>B</td>
</tr>
<tr>
<td>Ethics: Theory and Practice</td>
<td>PHI 1630</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Foundations of Gerontology</td>
<td>GEY 1000</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Human Resources Management</td>
<td>MAN 1300</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Life Span Developmental Psychology</td>
<td>DEP 2004</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>Microbiology</td>
<td>MCB 1000</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Psychology of Adulthood and Aging</td>
<td>DEP 1401</td>
<td></td>
<td>B</td>
</tr>
</tbody>
</table>
The Office of International Studies (OIS) serves as a bridge that connects UCF students and faculty to diverse world communities. As a University level office, the OIS focuses on creating a trans-national understanding of the social, economic, cultural, environmental, and political realities of the 21st Century. The OIS, the Office of the Special Assistant to the President for Global Perspectives, the International Services Center and the Center for Multilingual, Multicultural Studies work together to provide a concerted effort to implement the university’s broader strategic plan for internationalization.

The OIS mission is to promote, support, facilitate, advocate, and implement activities that lead to the internationalization of education and research at UCF. This is accomplished through: faculty development activities; internationalization of courses and programs; enhancement of international exchanges; promotion of international partnerships; and the identification and acquisition of external funding.

Central to the global mission at UCF is an ongoing program of international grants and development projects. The OIS secures, through external funding agencies, the resources necessary for faculty and curriculum development, joint research projects, and partnership programs. Recent grants include U.S. Department of Education Fulbright-Hays Group Projects Abroad grants to Mexico, the Caribbean, Peru, India, and Bolivia.

Several enrichment opportunities for faculty have OIS involvement, including the International Track of the UCF Faculty Development Summer Conference, other faculty workshops, and research opportunities.

The OIS assists in developing and processing agreements with institutions outside the United States. These agreements vary from protocolary statements of cooperation to specific agreements covering participation in theses and dissertation committees, student and faculty exchanges, and study abroad programs. The OIS provides templates, facilitates processing, and maintains agreement files.

Through the OIS, UCF develops, promotes and supports programs of study throughout Africa, Asia, Europe, Latin America and the Caribbean (see below).

### Study Abroad Programs

By its very nature, study abroad provides an exciting setting for learning – one in which student interaction is central to the learning process. Study abroad participants also learn about new environments, customs and, in many cases, new languages. They deal with the uncertainties of international travel and must adapt to the dynamics of the group. Maturity, self-confidence, and awareness of other cultures are only some of the benefits of study abroad. Students are invited to expand their classroom, their experience, and their future through study abroad.

UCF study abroad opportunities are a cooperative venture of academic departments and the Office of International Studies (OIS), and are designed to provide an exceptional learning experience, while matching the needs and situations of UCF students. The two main types of programs administered by UCF are Short Term Programs and Student Exchanges.

Short Term Programs are intended to provide the maximum amount of exposure to a subject in the shortest period of time. They must meet all the criteria for UCF courses and can be delivered as complete modules, or as a complement to a course delivered on campus or online. Examples of short term programs that UCF has offered in the past include the Department of Foreign Languages’ intensive programs in France, Japan, Germany, Spain and Italy; Social Work Department programs in South Africa and Russia; Criminal Justice in Barbados and Russia, Nursing in Sweden, Education in the Netherlands, Hospitality in France, and Art in Scotland.

Student Exchanges provide the opportunity to become a student at a university abroad for one semester or even a year. The longer terms allow for a more extensive experience abroad. Student exchanges require greater personal commitment, maturity and organization. Therefore, they are limited to UCF students who have attained at least a junior status and who have a minimum 3.0 GPA. Some of the exchanges that have been offered at UCF are Angers and Paul Sabatier in France; Meikai University in Japan; University of Lima in Peru; the universities of Lund, Jönköping, Mållardalen, and Dalarna in Sweden; and University College Northampton in the United Kingdom.

UCF students may also take advantage of the options provided by other member universities in the State University System (SUS) of Florida. There are numerous programs available through the system. UCF students apply to these programs directly and must become transient students at the host institution.

There are many additional study abroad options available to UCF students. It is important that students investigate those choices, the requirements and the implications that each choice has in terms of cost, credit transferability and progress toward graduation. OIS staff members can provide program advice and general information about options. For up-to-date information, please visit www.international.ucf.edu, or contact the office at 407-882-2300.

### Experiential Learning, Undergraduate Studies

**Director:** Dr. Sheri Dressler, Howard Phillips Hall, Suite 208  
(407) 823-2667, www.csel.ucf.edu

Experiential Learning is an instructional department reporting to Undergraduate Studies. It functions in collaboration with Career Services in a joint venture called Career Services and Experiential Learning (CSEL). Its mission is: 1) to assure that quality experiential learning opportunities are available to all UCF students before graduation, and 2) to create meaningful and productive educational part-
Co-op opportunities are available to students on all campuses in all Colleges. They are always major-related, paid, and multiple semesters with progressively responsible duties. They are either part-time around class schedules or full-time alternating semesters, structured for learning with reflection and evaluation, designated on transcripts, and available for credit when it will count in a student’s academic program.

Internships provide similar benefits to co-op experiences. They are usually one-semester, paid or unpaid, for credit, and occur toward the end of a student’s program of study. They are available through the Experiential Learning department or through departments in Colleges. Contact information for department internship coordinators is on the Experiential Learning website.

Service-Learning is a means of incorporating experiential learning into academic courses so that students learn course content through a service experience. Through this process, students gain an appreciation for civic engagement while using course content in a real-world environment. Courses using this approach are designated with SL in course listings so that students can select to participate in this type of learning experience.

Current co-op and internship opportunities through Experiential Learning are listed on our website under Experiential Learning. To apply for these opportunities students must complete an application online any time during the year, preferably one semester before they apply for these opportunities students may complete an application.

Division of Continuing Education
Assistant Vice President/Director: J. Patrick Wagner; University Tech Center, 12565 Research Parkway, Suite 390, Orlando, FL 32826; 407-882-0260; Fax: 407-882-0244; Website: www.ce.ucf.edu

The Division of Continuing Education (DCE) serves as the unit within Academic Affairs for the centralized administration of continuing education at UCF. In partnership with the academic, business, and professional communities, DCE provides local, state, national and international clients with high quality, affordable, credit/noncredit educational programs and services. DCE clients include degree students, area professionals, K-12 students, domestic and international corporations, and local/state/federal government.

Center for Multilingual Multicultural Studies
Director: Myrna Creasman; Bldg #81, P.O. Box 163177, Orlando, FL 32816-3177; 407-823-5515; Fax: 407-823-5465
Using contemporary teaching methodology and computer-assisted instruction, the Center for Multilingual Multicultural Studies provides quality English language instruction for international students. Four levels of instruction are offered which range from beginning to advanced, and special attention is given to preparing students for academic programs in their specialized fields of study. Full-time students enrolled at the advanced level may elect to take courses as non-degree-seeking students while enrolled in the Intensive English program. Students are required to take an entry placement test to determine their level of proficiency. Student (F-1) visas are extended to qualified applicants. The Center also offers English for Special Purposes for international business personnel.

The Center for Multilingual Multicultural Studies at University of Central Florida is accredited by the Commission on English Language Program Accreditation (CEA) and agrees to uphold the CEA standards for English Language Programs. For further information about this accreditation, please contact the Commission of English Language Program, Accreditation, 700 S. Washington Street, Suite 200, Alexandria, VA 22314, (703) 518-2480.

Off-Campus College Credit Programs
Director: Stephen Miller; Division of Continuing Education, Bldg #81, P.O. Box 160950, Orlando, FL 32816-0950; 407-882-0260; Fax: 407-882-0244

The Center for Applied Human Factors in Aviation (CAHFA) has as its mission the enhancement of safety in the nation’s airspace system through applied human factors research, systems design, and training strategies. Chartered in 1990, CAHFA is a research consortium established between UCF and Charter partner Embry-Riddle Aeronautical University, Daytona Beach, Florida. CAHFA’s professional staff maintains offices on both campuses. The complimentary strengths of the two universities are combined to create a research resource that is without peer for solving aeronautical human factors problems. CAHFA’s research initiatives are targeted to significantly reduce human factors related accidents and incidents by determining the efficacy of and by developing strategies for achieving improvements in human performance.

Center for Economic Education
Director: Robert L. Pennington; BA2 303E; 407-823-2640

The Center for Economic Education strives to increase public knowledge of economic principles and their applications in daily life. Researchers at the Center develop, collect, and distribute economic educational materials. They also consult with and provide instruction to area schools (K-12), community colleges, and community organizations. Instruction focuses on the principles of economics and their use in making rational economic decisions. Affiliated with the National Council on Economic Education, the Center also conducts research in economic education.

Dick Pope, Sr. Institute for Tourism Studies
Director: Abraham Pizam; 407-823-6202

The mission of the Dick Pope Sr. Institute for Tourism Studies is to improve the quality of the tourism product and increase the benefits of tourism for the industry, the state, and the local community. To this end the Institute is involved in a variety of research projects and educational programs.

The Institute’s research includes the collection, development, and dissemination of information relevant to the tourism and hospitality industry. Projects include the areas of marketing, consumer behavior and visitor satisfaction, feasibility, economic, motivation, and forecasting. Some of the Institute’s patrons include tourism promotion agencies at the state and local levels; tourism development commissions; professional associations; and private enterprises such as attractions, hotels, motels, food-service establishments, ground and air transportation companies, travel agencies and tour operators, and other related businesses. The Institute devotes significant efforts to educating the public about the tourism industry in Florida and internationally, and about its contribution to the social and economic welfare of the community at large.

Executive Development Center
Director: Dr. Jai Ganesh; 407-823-2446

The University of Central Florida College of Business Administration is proud to serve as a partner in executive education to the local, state, national, and international business communities. The Executive Development Center was established to provide leading executive education programs to both individuals and organizations. The Center helps professionals from all industries become more dynamic leaders, more effective managers, and more valuable team members. Corporations benefit from participating in executive education programs by developing more productive and resourceful workforces that can meet the challenges of today’s changing marketplace...
and tomorrow’s opportunities. The Center serves as a valuable resource in executive training and development by offering programs that address critical issues for managers and business leaders. These programs are offered in a variety of formats suitable for any individual or corporation through:

- Executive MBA Program;
- Professional MBA Program;
- Customized corporate programs;
- Conference services;
- Public enrollment programs;
- International seminars and exchange programs;

The UCF Executive Development Center has a strong commitment to the business community. Both small and large organizations find our programs to be contemporary, challenging, and effective.

**Florida Canada Linkage Institute**
**Director:** Dr. Jean C. Kijek; 407-823-3647; Fax: 407-823-3649; E-mail: fci@mail.ucf.edu

The Florida Canada Linkage Institute was created by the Florida Legislature to assist in the development of stronger economic and social ties between Florida and Canada. Linkage is developed through promotion of expanded public/private dialogue on cooperative research and technical assistance, cultural exchange, enhancement of language training, and student/faculty exchange programs. The Institute serves the entire State University System. The Institute administers the Florida Out of State Tuition Fee Exemption Program for Canadian students to study in Florida’s universities and community colleges for the same tuition fees as Florida residents. The awards are competitive and limited to $25 FTE per year.

**Florida Eastern Europe Linkage Institute**
**Director:** Dr. Jean C. Kijek; 407-823-3647; Fax: 407-823-3649; E-mail: eeli@mail.ucf.edu

The Florida Eastern European Linkage Institute is statewide and is designed to create and foster educational, commercial, cultural and social exchanges between the countries in central and eastern Europe and the State of Florida. The Institute, funded and administered through the Office of Academic Affairs and located in the College of Health and Public Affairs on the main campus, promotes the development of linkage through expanded public/private dialogue on cooperative research and technical assistance, cultural exchanges, the enhancement of language training, and student/faculty exchange programs. The Institute administers the Out of State Tuition Fee Exemptions Program that is available for students from central and east European countries to study in Florida state universities and community colleges for the same tuition fees as Florida residents. The awards are limited to $25 FTE and are competitive.

**The John Scott Dailey Florida Institute of Government at the University of Central Florida**
**Director:** Marilyn Crothy; 407-317-7745, Fax 407-317-7750

The Institute of Government, an affiliate of the John Scott Dailey Florida Institute of Government, is part of the College of Health and Public Affairs and provides training and technical assistance to state and local government, governmental associations, and non-profit organizations. Training workshops, certification programs, conferences, seminars, applied research projects, citizen surveys, strategic planning, and organizational development programs are among the services offered by the Institute.

**Florida Solar Energy Center (FSEC)**
**Director:** James Fenton; 1679 Clearlake Road, Cocoa FL 32922-5703; 321-638-1007; Fax: 321-638-1010

The Florida Solar Energy Center is the largest and most active state-supported alternative energy research institute in the United States. Its facilities are located on the Cocoa campus of UCF at Brevard Community College. FSEC has gained national and international respect for its programs on photovoltaics, hydrogen from renewables, pollutant detoxification, photocatalytic processes, energy-efficient buildings, advanced cooling technologies, and solar thermal systems. It operates the only certified solar equipment testing program in the country. The yearly value of FSEC’s external contracts exceeds its state support by a factor of two. The Center conducts seminars and workshops for professionals statewide, and its technical library boasts one of the nation’s most extensive holdings on solar and alternative energy. FSEC’s international Renewable Energy Training and Education Center is providing educational programs for government and industry leaders around the world.

**Florida Space Institute (FSI)**
**Director:** Dr. Ron Phillips, Mail Stop: FSI, Kennedy Space Center, FL 32899; 321-452-9834; Fax: 321-452-4842; E-mail: fsiccas@mail.ucf.edu; Website: http://fsi.ucf.edu

The mission of the Florida Space Institute is to support and develop Florida's space industry through applied and basic university research and university education in space-related fields using practice-based teaching. FSI conducts research, develops and transfers technology, teaches courses, and provides services to the scientific community. In cooperation with the Florida Space Authority, NASA / Kennedy Space Center, the Air Force, and statewide industry infrastructure, FSI works to facilitate engineering and science interactions within the state.

FSI, a state of Florida Type I Institute within UCF, has 10 member schools and provides space related education and research to undergraduate and graduate students at the Space Center. Research involves students in real-world space issues within the existing space industry environment of the Space Center. This environment permits students and faculty to interact with Space Center engineers and researchers and to use the extensive facilities of the Space Center.

FSI labs and classrooms are located at the Space Center. Additionally, we operate a magnetic launch assist facility and launch sub-orbital sounding rockets from our dedicated educational launch pad at the Cape Canaveral Air Force Station. This combination of facilities at the Space Center provides students with an unequalled opportunity to obtain an education and experience, through practice-based teaching, in the areas of space science and engineering.

**Institute for Simulation and Training (IST)**
**Director:** Randall Shumaker; 3280 Progress Drive, Orlando, FL 32826-0544; 407-882-1300; Fax: 407-658-5059; E-mail: shumaker@ist.ucf.edu; Website: http://www.ist.ucf.edu

The Institute for Simulation and Training (IST) was established to conduct research and develop technology that advances the state of the art in affordable and effective simulation capabilities and training systems. Driven by a proven record of research achievement, IST has developed unique qualifications and is positioned to provide the enabling technologies and technical talent necessary for future simulation development. In April 1985 a State of Florida resolution recognized the institute as part of the Center of Excellence for Simulation and Training.

IST is located in the Central Florida Research Park, adjacent the UCF campus. The park also is home to the Army Program Executive Office for Simulation, Training and Instrumentation (PEO STRI), Naval Air Training Systems Division (NAVAIR TSD), and Air Force Agency for Modeling and Simulation (AFAMS). The institute is one of an estimated 150 public and private entities specializing in simulation and training and located along the high tech corridor traversing the state from Tampa to Daytona Beach, the largest concentration of this expertise in the world.

IST’s research staff of scientists, engineers, and students conducts basic and applied research for a broad range of training devices and programs. Departments focus on applied research and technology, human systems integration, and information systems technologies. Research areas include:

- Multi-resolution simulation
- Virtual environments
- Computer generated forces
- Mathematical foundations
- Application development
- Information technology
- Human factors/Team training
- Training and education
- Media convergence
- Embedded simulation
- Parallel computing

Labs, work space, and administrative offices occupy nearly 38,000 square feet of floor space in IST’s research park building. Another 26,000 square feet of office and laboratory space is shared with the US Army. Simulation-based emergency management training is conducted at the institute’s training building near Orange and
Seminole County’s joint fire rescue facility on the campus’ north boundary.

IST actively assists UCF in the development of simulation-related curricula. First in the nation with a master’s degree in simulation systems, the University in collaboration with IST now offers a truly multidisciplinary PhD in modeling and simulation. Both master’s and doctoral programs accept applications from graduate students in computer science, digital media, psychology, engineering, mathematics, and related disciplines. The institute annually employs more than 80 graduate and undergraduate students in a variety of research and support positions. For many outstanding graduates, IST is a launch pad to a career in the simulation industry.

The institute includes in its efforts the development of research projects with potential commercial applications and adaptation of military technology to civilian markets. IST communicates the results of its research through seminars, conferences, publications, and workshops. In cooperation with UCF and the University of South Florida, and with considerable participation from area corporations, IST researchers are helping to promote economic growth in the modeling and simulation industry along central Florida’s high tech corridor.

Institute of Statistics and Data Mining
Director: Dr. Nizam Uddin; 407-823-2289.

The Institute of Statistics and Data Mining provides statistical consulting support to graduate students, staff, and faculty members in all stages of their research projects. The Institute’s services include, but are not limited to, design of experiments and surveys, determination of sample sizes, formulation of hypotheses, selection of appropriate analysis using a variety of software packages, interpretation and evaluation of statistical results, preparation of statistical reports, and writing statistical methods and data analyses sections of research grant proposals as well as data management through the data mining lab. The Institute's faculty members are available to work as co-investigators or statistical consultants on clients’ grant proposals. The Institute also provides statistical support to various government agencies and private organizations. For a brief description of consulting activities of the Institute and research expertise of faculty members, please visit (http://www.cas.ucf.edu/statistics/consultinginstitute.htm). The Institute offers one free consulting session to Ph.D. graduate students. The consulting service is available to faculty members working on funded projects for a modest fee.

Associate Professor Nizam Uddin (nuddin@mail.ucf.edu) is the Director of the Institute. However, other faculty members from the Department of Statistics and Actuarial Science are available for assisting clients.

Institute for Technical Documentation
Director: Karla Saari Kitalong; CNH 307E; 407-823-6257.

The Institute for Technical Documentation is a research and teaching center within the English Department. Its activities include technical communication consultation, usability evaluation and testing, and the development of communication training programs for clients. The Institute's experienced faculty and established facilities afford a strong rapport with local businesses and the capacity to assist in a wide variety of technical documentation projects and services.

Oak Ridge Associated Universities (ORAU)
President and ORAU Councilor for University of Central Florida: John C. Hitt
ORAU Corporate Secretary: Monnie E. Champion; 865-579-3306
http://www.orau.org

Since 1989, students and faculty of University of Central Florida have benefited from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 91 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Throughout the Oak Ridge Institute for Science and Education (ORISE), the DOE facility ORAU operates, undergraduates, graduates, postgraduates, as well as faculty enjoy access to a multitude of opportunities for study and research. Students can participate in a number of programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean science, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are specially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering related disciplines, and details on locations benefits can be found at http://www.orau.gov/orise/educ.htm.

ORAU’s Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU’s members, private industry, and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scholars Program, consortium research funding initiatives, faculty research and support programs as well as services to chief research officers.

Small Business Development Center (SBDC)
Director: Aloysse T. Polfer, National Entrepreneur Center, 315 E. Robinson St., Suite 100, Orlando FL 32801; 407-420-4850; al.polfer@bus.ucf.edu; www.bus.ucf.edu/sbdc.

The Small Business Development Center (SBDC) is part of a statewide organization designed to promote economic development and responding to the needs of the small business community. The SBDC, as part of the College of Business Administration at the University of Central Florida, is responsible for a geographic area including Orange, Osceola, Lake, Volusia, Flagler, and Sumter counties. Regional centers located at Daytona Beach Community College, Brevard Community College, and Seminole Community College assist small business in those areas. Assistance is provided through workshops and individual counseling in the following areas:

- Personnel
- Bookkeeping
- Business Tax
- Franchising
- Marketing
- Product Innovation
- Business Plan Development

Additional programs provide assistance to clients in the areas of government contracting, and international trade.

Small Business Institute
Director: Lloyd W. Fernald, Jr.; 407-823-5725

Business schools have for many years been interested in getting students out of the classroom and involved with real business problems rather than "textbook" situations. By sponsoring the Small Business Institute program, the University of Central Florida does not only satisfy this need, but at the same time provides free professional help to small businesses in need of managerial guidance.

The SBI program uses a team of senior-level undergraduate or graduate-level students who, under faculty supervision, provide management counseling and technical assistance to small business clients. Examples of these services are: general management audits, development of business plans, establishment of accounting systems, design of inventory systems, cost analysis, pricing strategies, and evaluation of alternative markets.

The major objective of the College of Business Administration at the University of Central Florida is to educate men and women for positions of productive responsibility in business and the professions. UCF’s Small Business Institute program stresses analytic ability and the student’s learning skills in recognizing and coping with change. The Small Business Institute program at the same time provides on-the-job experience and sound academic training for the student.
ACADEMIC DEGREES, MAJORS AND MINORS

Associate of Arts Degree
University of Central Florida students who satisfactorily complete 60 semester hours of acceptable college work may apply for an Associate of Arts degree. University requirements include achievement of a minimum UCF GPA of 2.0, fulfillment of the General Education Program requirements, and completion of the last 20 semester hours in residence at UCF. In addition, any student who desires to receive an A.A. degree must have satisfied the Gordon Rule requirement and passed the College Level Academic Skills Test.

The Associate of Arts degree is awarded only upon application. The application form may be obtained in Academic Services, MH 210 and completed by the end of the first week in the term in which the Associate of Arts degree is to be awarded. A student may not be enrolled as a transient student in another institution during the term in which the Associate of Arts degree is to be awarded. An Associate of Arts degree will not be awarded in the same term that the baccalaureate degree is to be awarded or in any term following the completion of the baccalaureate degree.

Baccalaureate Degrees
The University offers the degrees of Bachelor of Arts, Bachelor of Engineering Technology, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Science in Business Administration, Bachelor of Science in Education, Bachelor of Science in Engineering, Bachelor of Science in Nursing, and Bachelor of Science in Social Sciences. These degrees are available in the following Colleges with majors or areas of specialization as indicated:

Burnett College of Biomedical Sciences
Bachelor of Science (B.S.)
Majors: Molecular Biology and Microbiology, Medical Laboratory Sciences

College of Arts and Humanities
Bachelor of Arts (B.A.)
Majors: Art, Digital Media, English, Film, Modern Languages Combination, French, History, Humanities, Music, Philosophy, Religious Studies, Spanish, Theatre

Bachelor of Fine Arts (B.F.A.)
Majors: Art, Film, Theatre

Bachelor of Music Performance (B.M.)
Bachelor of Music Education (B.M.E.)
Bachelor of Science (B.S.)
Majors: Digital Media, Photography

College of Business Administration
Bachelor of Science in Business Administration (B.S.B.A.)
Majors: Accounting, Economics, Finance, General Business Administration, Management, Management Information Systems, Marketing

Bachelor of Arts
Major: B.A.B.A.

College of Education
Bachelor of Science (B.S.)

College of Engineering and Computer Science
Bachelor of Science

College of Health and Public Affairs
Bachelor of Arts (B.A.)
Majors: Communication Sciences and Disorders, Criminal Justice, Legal Studies, Public Administration

Bachelor of Science (B.S.)
Majors: Cardiopulmonary Sciences, Communication Sciences and Disorders, Criminal Justice, Health Information Management, Health Sciences-Athletic Training, Health Sciences-Pre-Clinical Allied Health Track, Health Services Administration, Legal Studies, Public Administration, Radiologic Sciences

Bachelor of Science in Nursing (B.S.N.)
Major: Nursing

Bachelor of Social Work (B.S.W.)
Major: Social Work

College of Sciences
Bachelor of Arts (B.A.)
Majors: Advertising/Public Relations, Anthropology, Interpersonal/Organizational Communication, Journalism, Political Science, Psychology, Radio-Television, Sociology

Bachelor of Science (B.S.)
Majors: Actuarial Science, Biology, Chemistry, Forensic Science, Mathematics, Physics, Psychology Statistics

Rosen College of Hospitality Management
Bachelor of Science (B.S.)
Majors: Hospitality Management, Restaurant and Foodservice Management

Office of Undergraduate Studies
Bachelor of Arts (B.A.)
Major: Liberal Studies

Bachelor of Science (B.S.)
Major: Liberal Studies, Social Sciences
### Academic Minors by College

<table>
<thead>
<tr>
<th>College Awarding Minor*</th>
<th>Name of Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Burnett College of</td>
<td>Molecular Biology &amp; Microbiology</td>
</tr>
<tr>
<td>Biomedical Sciences</td>
<td></td>
</tr>
<tr>
<td>College of Arts and</td>
<td>African American Studies, American Studies,</td>
</tr>
<tr>
<td>Humanities</td>
<td>Cognitive Sciences, Digital Media,</td>
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<tr>
<td></td>
<td>Judaic Studies, Latin American Studies, Middle</td>
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<tr>
<td></td>
<td>Eastern Studies, Music, Women’s Studies</td>
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<tr>
<td>College of Business</td>
<td>Accounting, Business Administration (for non-</td>
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<tr>
<td>Administration</td>
<td>Business Administration majors), Economics (for</td>
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<tr>
<td></td>
<td>non-Business and Business majors), International</td>
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<tr>
<td></td>
<td>Business, Management Information Systems,</td>
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<tr>
<td></td>
<td>Marketing (for Business and non-Business majors),</td>
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<td></td>
<td>Real Estate (for Business and non-Business</td>
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<tr>
<td></td>
<td>Majors), Sport Business Management (for Business</td>
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<td></td>
<td>Majors Only)</td>
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<tr>
<td>College of Education</td>
<td>Coaching, Early Childhood Education, Exceptional</td>
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<td></td>
<td>Education, Fitness Training, Technical Education</td>
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<td></td>
<td>and Industry Training</td>
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<tr>
<td>College of Engineering</td>
<td>Aerospace Studies, Engineering Leadership &amp;</td>
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<tr>
<td>and Computer Science</td>
<td>Management, Military Science, Secure Computing</td>
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<td></td>
<td>and Networks, Space Studies, Intelligent Robotic</td>
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<td></td>
<td>Systems, Technology and Society Information</td>
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<td></td>
<td>Technology, Computer Science</td>
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<tr>
<td>College of Health and</td>
<td>Aging Studies, American Humanities, American</td>
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<tr>
<td>Public Affairs</td>
<td>Sign Language, Communication Sciences and</td>
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<tr>
<td></td>
<td>Disorders, Criminal Justice, Deaf Studies,</td>
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<td></td>
<td>Emergency Management and Homeland Security, Health</td>
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<tr>
<td></td>
<td>Sciences, Health Services Administration, Health</td>
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<tr>
<td></td>
<td>Information Management, Legal Studies, Public</td>
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<tr>
<td></td>
<td>Administration, Urban and Regional Planning</td>
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<tr>
<td>College of Sciences</td>
<td>Anthropology, Anthropology in Multicultural Studies,</td>
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<tr>
<td></td>
<td>Astronomy, Biology, Chemistry, European Studies,</td>
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<tr>
<td></td>
<td>Interpersonal Communication, Magazine Journalism,</td>
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<tr>
<td></td>
<td>Mass Communication, Magazine Journalism</td>
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<tr>
<td></td>
<td>Sociology, Statistics, Environmental Studies,</td>
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<tr>
<td></td>
<td>Social Sciences-Interdisciplinary</td>
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<tr>
<td>Rosen College of</td>
<td>Hospitality Management</td>
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<tr>
<td>Hospitality Management</td>
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<tr>
<td></td>
<td>Event Management</td>
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</tbody>
</table>

### Academic Minors by Department

<table>
<thead>
<tr>
<th>School/Department</th>
<th>Name of Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Multidisciplinary</td>
<td>Space Studies</td>
</tr>
<tr>
<td>Department of Aerospace</td>
<td>Aerospace Studies (Air Force ROTC)</td>
</tr>
<tr>
<td>Department of Anthropology</td>
<td>Anthropology, Anthropology in Multicultural Studies,</td>
</tr>
<tr>
<td>Department of Art</td>
<td>Art History, P.A.V.E., Art-Studio Biology</td>
</tr>
<tr>
<td>Department of Biology</td>
<td>Biochemistry</td>
</tr>
<tr>
<td>Department of Chemistry</td>
<td>Chemistry</td>
</tr>
<tr>
<td>Nicholson School of</td>
<td>Interpersonal Communication, Organizational</td>
</tr>
<tr>
<td>Communication</td>
<td>Communication, Mass Communication, Magazine</td>
</tr>
<tr>
<td>Department of English</td>
<td>Technical Writing and Editing, Creative Writing,</td>
</tr>
<tr>
<td>Department of History</td>
<td>Literature, Linguistics, Writing</td>
</tr>
<tr>
<td>Department of Mathematics</td>
<td>Mathematics</td>
</tr>
<tr>
<td>Department of Military</td>
<td>Military Science (Army ROTC)</td>
</tr>
<tr>
<td>School</td>
<td>Music</td>
</tr>
<tr>
<td>Department of Music</td>
<td>French, German, Italian, Spanish</td>
</tr>
<tr>
<td>Department of Modern</td>
<td>Languages and Literatures</td>
</tr>
<tr>
<td>Languages</td>
<td></td>
</tr>
<tr>
<td>Department of Philosophy</td>
<td>Humanities, Philosophy, Religious Studies</td>
</tr>
<tr>
<td>Department of Physics</td>
<td>Astronomy, Physics</td>
</tr>
<tr>
<td>Department of Political</td>
<td>Asian Studies, European</td>
</tr>
<tr>
<td>Science</td>
<td>Studies, Political Science, Political Science/Pre-Law,</td>
</tr>
<tr>
<td>Department of Psychology</td>
<td>Clinical, Human Factors, Industrial/Organizational</td>
</tr>
<tr>
<td>Department of Sociology</td>
<td>Sociology</td>
</tr>
<tr>
<td>Department of Statistics</td>
<td>Statistics</td>
</tr>
<tr>
<td>Department of Theatre</td>
<td>Theatre</td>
</tr>
</tbody>
</table>

*Contact the college/school/department for the requirements for each minor.*

### Office of Undergraduate Studies

- Environmental Studies Minor
- Social Sciences Interdisciplinary Minor
- World Comparative Studies Minor

Minors are authorized only for certification with baccalaureate degrees. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second baccalaureate degree is earned, certification will not be made at a later time even if additional courses have been completed.

A student may declare a minor up to but no later than the submission of the “Intent to Graduate Form.” Students are strongly urged to declare a minor as early as possible. Contact the student support office of the college offering the minor.

### Graduate Programs

See description at the beginning of each college section. For further information on a particular program or graduate fellowships, contact the departmental office in the respective college or see the Graduate Catalog: [http://wwwgraduate.ucf.edu/catalog/](http://wwwgraduate.ucf.edu/catalog/).
The Burnett College of Biomedical Sciences

The Burnett College of Biomedical Sciences became the 9th college in UCF on August 10, 2004 with the goal of building a nationally and internationally recognized biomedical research and education enterprise. The college initially has over 1,400 undergraduates and 75 graduate students who, along with faculty, conduct research to find novel treatments for cancer, cardiovascular diseases, neurodegenerative diseases and infectious diseases.

Programs and Degrees

Program
Molecular Biology and Microbiology
Medical Laboratory Sciences
Biomolecular Science

Degree
B.S., M.S., Minor
B.S.
Ph.D.

Department of Molecular Biology and Microbiology

Chair: P.E. Kolattukudy; BMS 136; 407-823-1312
Assistant Chair: Roseann White; HPA II 335J; 407-823-2914
Undergraduate Coordinator: Dorilyn Hitchcock; HPA II 335A; 407-823-5932
Graduate Coordinator: Karl Chai; BMS 323; 407-823-6122

Faculty: K. Chai; D. Chakrabarti; R. Chakrabarti; S. Chan; J. Cheng; A. Cole; H. Daniell; S. Ebert; C. Fernandez-Valle; R. Gennaro; D.
The Department of Molecular Biology and Microbiology offers a Bachelor of Science degree, a Master of Science degree and a Minor in Molecular Biology and Microbiology. The department also offers a Bachelor of Science degree in Medical Laboratory Sciences. The Molecular Biology and Microbiology programs prepare students for entry into any professional schools in health sciences, such as medicine, veterinary, pharmacy, podiatry, physician assistant, physical therapy, optometry, chiropractic and dentistry. The programs also prepare students entering the technical workforce in biotechnology, pharmaceutical and/or any other medical technology industry. The department is a major partner in the interdisciplinary PhD program in Biomolecular Science.

Program in Molecular Biology and Microbiology

The Core Curriculum in the baccalaureate program, with its broad and thorough background in the physical, computational, and life sciences, provides a solid foundation in concepts and applications of modern biology to contemporary and future problems. The Restricted Electives component of the baccalaureate program allows each student to enhance his/her academic preparation in areas of morphological, clinical, analytical or investigative applications. Students are also encouraged to gain research experience and exposure to specialized topics not taught in formal courses through the mechanism of directed research and independent study contracts with selected faculty. This thorough, but flexible, program provides an excellent preparation for industry, graduate education, and for the four-year health science professions (medicine, veterinary, pharmacy, podiatry, physician assistant, physical therapy, optometry, chiropractic and dentistry).

Molecular Biology and Microbiology UCF/USF Accelerated Medical School Program (BS)

Students must apply for this program through the Burnett Honors College prior to attending UCF. Eligibility requirements include FL residency, unweighted high school GPA of 3.7 and SAT score of 1300 or ACT score of 29. More information about the admission process can be found at and in the catalog under: Burnett Honors College: UCF/USF Accelerated Medical School Program.

Students desiring admission to USF College of Medicine [USFCOM] through the accelerated program will meet all USFCOM admission requirements and obtain a BS in Molecular Biology and Microbiology after completion of first year of the medical school curriculum.

Program in Medical Laboratory Sciences

Director: Dorilyn Hitchcock; HPA II 335A; 407-823-5932

Medical technologists may be involved in medical diagnosis, patient treatment, health screening, laboratory management, research, and laboratory education. They use highly sophisticated analytical equipment for the examination of body tissues and fluids.

The curriculum is designed to give students a thorough background in the physical and biological sciences; to develop the necessary laboratory skills and skills essential to assume leadership roles in management and education; to develop a high level of proficiency in correlating clinical data.

The last two years of sequential courses constitute the upper division portion of the Program. The size of the class to be selected in the Medical Laboratory Science Program is determined by the availability of space and equipment, and available spaces in the clinical facilities. This is a limited access program that requires a separate application to the program. Preference will be given to those who apply by March 1st but applications will be accepted until the class is filled.

Program in Medical Laboratory Sciences

Director: Dorilyn Hitchcock; HPA II 335A; 407-823-5932

Medical technologists may be involved in medical diagnosis, patient treatment, health screening, laboratory management, research, and laboratory education. They use highly sophisticated analytical equipment for the examination of body tissues and fluids.

The curriculum is designed to give students a thorough background in the physical and biological sciences; to develop the necessary laboratory skills and skills essential to assume leadership roles in management and education; to develop a high level of proficiency in correlating clinical data.

The last two years of sequential courses constitute the upper division portion of the Program. The size of the class to be selected in the Medical Laboratory Science Program is determined by the availability of space and equipment, and available spaces in the clinical facilities. This is a limited access program that requires a separate application to the program. Preference will be given to those who apply by March 1st but applications will be accepted until the class is filled.

The Medical Laboratory Sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAA-CLS-8410 Bryn Mawr Ave., Ste 670, Chicago, IL 60631) and is approved as a training program by the state of Florida Board of Clinical Laboratory Personnel.

Degrees: Medical Laboratory Sciences (BS)

Tracks: None

Minors: None

Office of Student Services and Advisement (OSSA)

Academic Advisor: Cynthia Maria Contreras; HPA II 335H; 407-823-5787

Academic Advisor: Ana Maria Schwindt; HPA II 335G; 407-823-1259

E-mail: bcbسينور@mail.ucf.edu

The Office of Student Services and Advisement (OSSA) is the primary office for undergraduate academic advisement in the Burnett College of Biomedical Sciences. OSSA assists Molecular Biology & Microbiology and Medical Laboratory Sciences students in orientation, registration, University policies and procedures, major requirements, course substitutions, and graduation certification. Students interested in pursuing Medical Laboratory Sciences limited access program, should meet with an advisor or the Program Director for more information.

Biomolecular Science Center

Director: P.E. Kolattukudy; BMS 136; 407-823-1312

The mission of this university-wide interdisciplinary academic Center is to establish vibrant research and training programs under the general theme, "Molecular and Genomic Bases of Diseases and Therapeutics." Center research is focused in four areas: cancer, cardiovascular disease, infectious disease, and neurodegenerative disease.

The Biomolecular Science Center currently works with the Office of Research and the broader UCF research community to establish state-of-the-art research infrastructure and core facilities to support research in modern life sciences.

Within the next five years, the Center plans to establish at least 20 new faculty research teams in biomolecular science within its theme area. Additional faculty will be hired in partnership with other academic units including the College of Optics and Photonics and the Nanoscience and Technology Center. Together with the existing faculty, this growth in life sciences is expected to create a critical mass of people conducting interdisciplinary research at the cutting edge in biomolecular science that can have a significant impact on the biomedical technology industry of the region and the state.

The Biomolecular Science PhD is a major vehicle for training. In addition, the center intends to help establish new degree programs in cooperation with other academic units to generate a skilled workforce that can serve the region and state’s growing biomedical biotechnology industry.

Degrees: Biomolecular Science (Ph.D.)

Tracks: None

Minors: None

Pre-health Professions Advisement Office

Director: Gennaro Lopez; HPA I 124; 407-823-2670

The Pre-Health Professions Advisement Office serves students university-wide in preparing for and seeking admission to professional health science schools, such as medicine, veterinary, pharmacy, podiatry, physician assistant, physical therapy, optometry, chiropractic and dentistry.

For more information regarding this office, please refer back to the "Academic Advising" section of this Undergraduate Catalog.
The Burnett Honors College
Dean: Alvin Wang, The Burnett Honors College; 407-823-2076, Fax 407-823-6583
Director of Research and Civic Engagement: Kelly Astro
Director of Student Services: Madi Dogariu
Director of Computer Operations: Andrew Holloway
Director of Student Affairs: Jill Norburn
Director of Administrative Services: Donna Plaisted
Director of Student Development: Lisa Sklar
Director of Advising: Peter Wallace
http://www.honors.ucf.edu

Committed to diversity in both the composition of its student body and the programs that it supports, The Burnett Honors College (TBHC) at UCF provides a challenging and exciting educational experience to academically talented students.

TBHC combines the atmosphere of a small college with the intellectual stimulation of a large metropolitan research university. Honors students receive an education that prepares them to enter the best graduate and professional schools as well as pursuing distinguished careers.

Honors classes are small, and course work crosses traditional disciplinary boundaries to encourage critical thinking. Beyond the classroom, special guest lecturers, field trips, study abroad, research opportunities, and university-related service activities expand the horizons of Honors students.

Students in TBHC are actively involved in social activities and course programming. They also have priority registration privileges and access to the Honors Reading Room, computer lab, and Honors housing.

Students may pursue Honors through two distinct programs, University Honors and Honors in the Major.
The Burnett Honors College

University Honors
Admission to University Honors is granted by TBHC to qualified incoming freshmen. Students who seek admission to University Honors must apply directly to TBHC. It is the student's responsibility to obtain the appropriate Honors College admissions information from the TBHC Office of Student Services and follow the procedures necessary to enter the program. Prospective Honors students and their parents are encouraged to contact Honors staff if they have questions.

Students must maintain a minimum 3.2 UCF GPA and a minimum 3.0 GPA in Honors courses to remain in University Honors. In addition to meeting the GPA requirements, to graduate with University Honors the student must: 1) complete 12 hours of Honors lower-division course work, 2) complete with a “Satisfactory” (S) grade Honors Symposium; and 3) meet upper-division Honors course requirements determined by college or major.

Qualified students who transfer to UCF with an AA Degree with Honors from a Florida community college that has signed an Honors Articulation Agreement with TBHC will be admitted into University Honors with junior standing. Further information is available from the Honors Office of Student Services.

Students may receive a waiver of credit for one upper-division Honors Seminar upon completion of six or more hours of upper-division credit for the following programs: 1) University Study Abroad Program; 2) The Washington Center; and 3) Research Experiences for Undergraduates (REU) program. Students may receive a waiver of credit for one upper-division Honors Seminar upon satisfactory completion of a graduate level course while taken as an undergraduate student. Students may only receive a waiver of credit once for each category listed.

By the end of the second week of the term in which a student plans to graduate with University Honors, the student must file a complete "Intent to Graduate with University Honors" form with TBHC and complete an exit interview. A student who completes all of the requirements for University Honors will have the designation of "University Honors" entered on the diploma and transcript.

Summary Table of University Honors Requirements

### Symposium
- 1 hour

### Lower-division
- 12 hours

### Upper-division Major
- See requirements by College

1. When a student has an exceptionally high number of dual enrollment, Advanced Placement, CLEP, or other work that is credited toward GEP hours, he or she should consult an Honors advisor about fulfilling Honors lower-division course work requirements.

2. Honors Symposium is a one credit hour course offered in the Fall semester of each year. This course includes guest lectures, video and film presentations, and live performances by guest artists. Only one absence is permitted. A field trip is included as part of the Honors Symposium. Attendance at this series will be mandatory for all students seeking University Honors. The course is graded on a Satisfactory/Unsatisfactory basis.

3. These upper-division requirements for the completion of University Honors are under review and revision by the professional colleges.

The current requirements are as follows:

- **University Honors Upper-Division Program Requirements:**
  - College of Arts and Humanities, College of Education, College of Sciences, Rosen College of Hospitality Management, and Medical Laboratories Sciences, Engineering Technology, and Information Technology majors
    1. Complete one Honors Interdisciplinary Seminar (3 hrs)
    2. Complete two Honors upper-division courses, Seminars, or Interdisciplinary Seminars (6 hrs)

- **University Honors Upper-Division Program Requirements:**
  - College of Business Administration
    1. Complete one Honors Interdisciplinary Seminar (3 hrs)
    2. Complete two Honors upper-division Business courses (6 hrs)

- **University Honors Upper-Division Program Requirements:**
  - College of Health and Public Affairs (COHPA) excluding Nursing majors
    1. Complete one Honors Interdisciplinary Seminar (3 hrs)
    2. Complete with a grade of "B" or better ZOO 3733H Honors Human anatomy (3 hrs)
    3. Complete with a grade of "B" or better PCB 3703H Honors Human Physiology (3 hrs)

An Honors Seminar normally is an upper-division offering intended for all majors. Most seminars are strongly interdisciplinary, may be team-taught, and present cutting-edge topics by faculty who must present course proposals for consideration by the University Honors Committee. Enrollments are limited to 20 students. At least one of these seminars will form part of the revised University Honors upper-division curriculum currently under adoption by each college or major.

**UFC/USF Accelerated Medical School Program for Students of The Burnett Honors College**

http://www.honors.ucf.edu/usf_medschool.html

Eligible UCF freshmen who have been admitted to The Burnett Honors College and are interested in attending medical school have an opportunity to receive guaranteed admission to University of South Florida’s College of Medicine and complete a medical degree in seven years (3+4). Students must apply for the program prior to their first semester at UCF. The first three years of study will be completed at UFC and the fourth year will be done in residence at USF as part of the first year of medical school, provided that students continue to meet all the program requirements. UFC will confer a Bachelor’s Degree following successful completion of the fourth year of study. USF will confer the Doctor of Medicine Degree at the successful completion of the program.

Students may elect to complete a fourth year at UFC, following the more traditional pattern of four years of undergraduate coursework prior to receiving the Baccalaureate Degree, and then enter the USF College of Medicine. Students selecting this option (4+4) must complete the same requirements as the accelerated (3+4) program, but also have the opportunity to take more advanced coursework and continue to meet all of the program requirements.

Note: Please refer to the “UCF Courses and Descriptions” section of this Undergraduate Catalog for information on direct prerequisites for the above courses. Consult an Honors advisor to find out when these courses are being offered.

- **University Honors Upper-Division Program Requirements:**
  - College of Engineering and Computer Science Excluding Computer Science, Information Technology and Engineering Technology
    1. Complete one Honors Interdisciplinary Seminar (3 hrs)
    2. Complete two Honors upper-division Engineering courses (6 hrs)
    3. Complete two Honors upper-division Computer Science courses (6 hrs)
    4. Complete two Honors upper-division Engineering courses (6 hrs)
    5. Complete two Honors upper-division Engineering courses (6 hrs)
    6. Complete two Honors upper-division Engineering courses (6 hrs)

- **University Honors Upper-Division Program Requirements:**
  - College of Health and Public Affairs (COHPA) excluding Nursing majors
    1. Complete with a grade of "B" or better BSC 3404H Honors Quantitative Biological Methods (4 hrs)
    2. Complete with a grade of "B" or better PCB 4524H Honors Molecular Biology II (3 hrs)

- **University Honors Upper-Division Program Requirements:**
  - College of Business Administration
    1. Complete one Honors Interdisciplinary Seminar (3 hrs)
    2. Complete two Honors upper-division Business courses (6 hrs)

- **University Honors Upper-Division Program Requirements:**
  - College of Health and Public Affairs (COHPA) excluding Nursing majors
    1. Complete one Honors Interdisciplinary Seminar (3 hrs)
    2. Complete with a grade of "B" or better PCB 3703H Honors Human Anatomy (3 hrs)
    3. Complete with a grade of "B" or better PCB 3703H Honors Human Physiology (3 hrs)
become involved in additional research activities. Students may elect to decelerate at any point prior to October 31 of the third year.

Transfer students are not eligible for this program.

Students applying for this accelerated program must select a major in one of the following fields in order to receive a Baccalaureate Degree from UCF:

- Molecular Biology and Microbiology
- Other majors are available using the 4 + 4 option

The Burnett Honors College will provide oversight of the student’s progress in meeting Honors requirements and will coordinate overall completion of the first three years of the program. Students will receive advisement and schedule planning assistance each semester from a department advisor and the Pre-professional advisor.

Students attending the USF Medical School during their fourth year of matriculation (3 + 4 track) may transfer a maximum of 30 hours of course work taken at USF toward their UCF undergraduate degree. Such students fulfilling the accelerated 3 + 4 track will receive their BS degree from the University of Central Florida after successfully completing all UCF requirements and the requirements of the first year of medical education at USF.

The USF College of Medicine will provide oversight of the 4-year medical school curricular component of the program.

**Eligibility Requirements**

- Florida resident
- SAT score of 1300 or ACT of 29
- Unweighted high school GPA of 3.7
- Class rank (if available) top 10%
- Admission to The Burnett Honors College
- Completion of the Accelerated USF Medical School Application Form with one letter of recommendation following admission to The Burnett Honors College
- Submittal of two letters of recommendation from UCF faculty and successful USF College of Medicine interview in May at the completion of the first year
- Detailed program requirements can be found at [http://www.honors.ucf.edu/usf_medschool_requirements.html](http://www.honors.ucf.edu/usf_medschool_requirements.html)

**Honors in the Major**

Application for admission to the Honors in the Major program will be made to TBHC following consultation by the student with the Department Chair or Honors in the Major Coordinator in the student’s major department. This program is designed to encourage original and independent work by the student. Two copies of the thesis, project, or creative work will be placed in the University Library with another copy remaining in The Burnett Honors College Reading Room. An Honors in the Major Handbook outlining the procedures for completing this program is available in BHC 102 or online at [http://honors.ucf.edu/docs/HIM/himhandbook.pdf](http://honors.ucf.edu/docs/HIM/himhandbook.pdf)

Requirements for admission to Honors in the Major are: completion of at least 60 semester hours of college credit including at least 12 graded upper-division hours at the University of Central Florida; at least a 3.5 GPA within the major and at least a 3.2 GPA in all upper-division courses regardless of institution. Students must also seek approvals by the department from which Honors in the Major is sought and from the Director of Research and Civic Engagement of TBHC.

Honors in the Major is awarded upon completion of an advanced Honors Thesis, and the completion of at least three but not more than six hours of Directed Readings course work as determined by the academic department; and at least three but not more than six hours of Honors Thesis or Project work taken in the college or department of major. Engineering majors must take EGN 4831H in lieu of Directed Readings and will write a thesis proposal as part of their coursework. HIM students in the College of Health and Public Affairs may take three credit hours of Honors Directed Readings or one COHPA Honors Interdisciplinary Course. For Molecular & Microbiology students only, BSC 3404H may substitute for Honors Directed Readings. Students who enroll in the Interdisciplinary Course or in BSC 3404H will write a Thesis Proposal as part of their coursework. Departments or colleges may set additional requirements for Honors in the Major to be completed.

The Honors Thesis is to be completed under the direction of a committee of three faculty members, one of whom is the project or thesis Chair. It is the student’s responsibility to obtain an Honors in the Major Committee Chair who will undertake the responsibility of directing the Honors Directed Readings and Thesis and, in consultation with the student, form the Honors in the Major faculty committee. The Thesis Committee Chair and at least two committee members must be tenured or tenure-earning faculty. The student is responsible for filing an application with TBHC to begin Honors in the Major, which must be signed by the Thesis Committee Chair, the Honors Coordinator of the major department, and the Director of Research and Civic Engagement of TBHC. The student must receive a grade of at least “B” in all Honors in the Major course work to be awarded Honors in the Major.

The student must file an “Intent to Graduate with Honors in the Major” form with the TBHC Office of Research and Civic Engagement by the last day of classes of the semester preceding their anticipated graduation date. A student who completes all of the requirements for Honors in the Major, including maintaining at least a 3.5 GPA within the major and at least a 3.2 GPA in all upper-division courses, will have the designation of “Honors in (subject area)” noted on the diploma and the University transcript. If you have any questions about these requirements, please contact TBHC at 407-823-6402 or honorsresearch@mail.ucf.edu

**Student-Mentor Academic Research Teams (SMART)**

TBHC oversees the Student-Mentor Academic Research Teams (SMART) Program which is designed to assist sophomores and juniors identify and work with faculty mentors in a research area of shared interest. SMART is open to all UCF students with a minimum overall GPA of 3.2. A limited number of SMART grants are competitively awarded to students and faculty for fall, spring, or summer semester research. Students seeking more information about SMART should visit [http://www.honors.ucf.edu/SNART_main.html](http://www.honors.ucf.edu/SNART_main.html)

If you have any questions about SMART or the grants program, please contact the Office of Research and Civic Engagement in BHC 102 or by phone at 407-823-6402.

**Office of Student Scholarship and Fellowship Advisement**

The Office of Student Scholarship and Fellowship Advisement (OSSFA) serves all UCF students who are eligible to apply for prestigious scholarships such as the Rhodes, Truman, Gates, and Marshall. Because TBHC is UCF’s campus representative for all prestigious scholarships, applicants for scholarships that require institutional nomination must contact OSSFA prior to the application process. Students seeking detailed information about prestigious scholarships and the application process should visit [http://www.honors.ucf.edu/scholar_main.html](http://www.honors.ucf.edu/scholar_main.html). All students who are applying for a prestigious scholarship or fellowship are encouraged to contact the OSSFA office for assistance with their applications, even if the scholarship does not require institutional endorsement. Students seeking more information should contact OSSFA in BHC 103 or by phone at 407-823-0325 prior to the application process.
College of Arts and Humanities

Dean: Jose Fernandez; CAS 190; 407-823-2251
Associate Dean: Lyman Brodie; CAS 190; 407-823-2251
Assistant Dean: Consuelo Stebbins; CAS 190; 407-823-2251

The College of Arts and Humanities includes the following departments: Art, English, Modern Languages & Literatures, History, Music, Philosophy, and Theatre. The College also houses programs in Judaic Studies, Latin American, Caribbean and Latino Studies, Women’s Studies, Middle Eastern Studies and the School of Film and Digital Media.

In keeping with the aims of the University of Central Florida, the College is responsible for all programs in the areas of humanities and arts. The departments collectively offer more than 60 baccalaureate and graduate programs. For additional information concerning graduate programs, please refer to the Graduate Catalog.

In addition to providing academically strong degree programs in the areas noted above, the College of Arts and Humanities offers a selection of courses that are designed to complement the programs of the other colleges of the University. These offerings include a number of courses necessary to satisfy the University’s General Education program.

A student enrolled in the College as an undergraduate must fulfill all University degree requirements including those for general education as well as the particular requirements set forth within each area of specialization. Computer proficiency is determined within the student’s department of major. Depending on the program evaluation may be via a written test, relevant projects, or specific exercises.
within a course or an entire course dealing with computers. To be certified for graduation, a student must achieve at least a “C” GPA (2.0) in the courses of his or her major and/or minor. Some departments also require a minimum grade in each major course. Students are advised to consult their departmental advisor for specific policies. For programs with a foreign language graduation requirement, American Sign Language is not considered a foreign language and will not fulfill the requirement.

A student whose written or oral communication in any course is deemed unsatisfactory may be referred to the Dean by the instructor. Additional coursework or an individual study program, consistent with the needs of the student, may be assigned and must be completed before the degree is granted.

Preprofessional Programs

Prelaw Program

Prelaw Advisor: Jennifer Mundale; CNH 411L; 407-823-5076

There is no preferred major for pre-law. Law schools accept superior students with a good liberal arts background, regardless of major field. A Bachelor of Arts or Bachelor of Science degree with approximately three-fourths of the course work representing theory content is typically suggested. Majors such as English, History, Legal Studies, Philosophy, Sociology, and Political Science meet this criterion. The quality of undergraduate education for the legal profession, according to the Association of American Law Schools, is grounded in three basic skills and insights: comprehension and expression in words, critical understanding of the human institutions and values with which the law deals, and the creative power of thinking. Law schools require that the Law School Admission Test (LSAT) be taken prior to consideration for admission. General information pertaining to programs of study, the LSAT, careers, and law schools can be obtained from the Pre-law Advisor.

Advisement of pre-law students will be provided in the area where a major is chosen. For example, a pre-law student who desires to emphasize the historical foundations should seek advisement in the Department of History; for emphasis in political science advisement should be sought in the Department of Political Science; emphasis in economics should be gained through advisement in Economics programs in either the College of Arts and Humanities or the College of Business Administration; emphasis in Legal Studies can be pursued in the Department of Criminal Justice and Legal Studies in the College of Health and Public Affairs.

Prehealth Professions

The College of Arts and Humanities offers courses that fulfill admission requirements for professional schools in the Health Sciences. Refer to the Biology Preprofessional section for additional information.

Advisement Office of Academic Support and Information Services (OASIS)

http://www.cas.ucf.edu/oasis

Director: Lee Anne Kirkpatrick; CNH 202; 407-823-2492; e-mail: oasis@ucf.edu

The Office of Academic Support and Information Services (OASIS) is the primary office for undergraduate academic assistance in the College of Arts and Humanities and the College of Sciences. OASIS assists students in the Colleges with degree requirements, policies and procedures. The Office oversees General Education course evaluation and substitutions as well as evaluation and application of TSD credits.

Questions concerning University and College academic policies affecting the College of Arts and Humanities and the College of Sciences majors should be directed to the OASIS staff in CNH 202 or by calling 407-823-2492. Questions concerning requirements within a major should be directed to the Department offering the degree. The student should contact the department early in his/her academic career.

Program Planning

Although suggested curricula are available in most areas, students will plan their program in consultation with a faculty advisor appointed by either the major department or the College.

Area Studies Programs

Area Studies programs are multidisciplinary programs that focus on specific regions or cultural groups. UCF has four area studies programs with an international focus: Asian; Judaic; Latin American, Caribbean, and Latino Studies; and Middle Eastern.

Although the academic home of these programs is the College of Arts and Humanities, faculty and students from across the entire university may participate in them. These programs may be elected as minors by students majoring in any discipline within the university. For more information about the programs and contact numbers of the program directors see the list below. Contact the Office of International Studies for assistance or referral for all international inquiries regarding academic programs

Asian Studies - Contact: Consuelo Stebbings; 407-823-2251
Judaic Studies - Contact: Moshe Pelli; 407-823-5039
Latin American, Caribbean and Latino Studies - Contact: Luis Martinez-Fernandez; 407-823-1173
Middle Eastern Studies - Contact: Husain Kassim; 407-823-2803

International Study Centers

Undergraduate Inter-institutional Transient Program

The State University System operates study centers in London, England and Florence, Italy during the Fall and Spring semesters. Students with 27 or more semester hours of credit and a minimum GPA of 2.5 or above in all state universities are eligible to apply for one or both semesters as inter-institutional transient students. Faculty at the centers are drawn from the nine state universities. While credits are earned through Florida State University, which administers the program on behalf of the State University System, credits are fully transferable within the System. Students at the Centers are considered to be resident in their home institutions for attendance and degree purposes.

Classes at the Florence Center emphasize art history, Italian, social sciences, and the humanities; at the London Center, theatre, business, English, history and the social sciences are emphasized. Field trips and museum visits are common to both. For further information, consult the Office of International Studies at 407-862-2300.

Programs, Tracks, and Degrees

Title Degree

Title Degree

American Studies Minor

Animation Minor

Art BFA, Minor, MFA

Asian Studies Minor

Cinema Studies (Film) Minor

Community Arts - PAVE Minor

Digital Media BA, BS, Certificate, Minor

English BA, MA, Minor, MFA, Ph.D., Certificate
The College of Arts and Humanities

Departments and Programs

African-American Studies: Program

http://www.cas.ucf.edu/africanamericanstudies

Program Director: Dr. JoAnne Stephenson; CNH 210G; 407-823-0026

The College of Arts and Humanities offers a minor in African-American Studies, which gives students the opportunity to explore the African American experience from a multi-disciplinary perspective. The program is designed to enhance and complement the student’s major area of study. The minor incorporates courses from many different disciplines including Music, Fine Arts, History, English, Foreign Languages, Political Science, Psychology, Sociology, Anthropology, Film, and Theater. The program’s interdisciplinary approach emphasizes the artistic and intellectual traditions of African Americans, and is dedicated to developing expertise and knowledge of the black experience in the African Diaspora.

Degrees: None

Tracks: None

Minors: African-American Studies

American Studies: Program

Contact: Consuelo Stebbins; CAS 190; 407-823-2251 Email: stebbins@mail.ucf.edu

The College of Arts and Humanities offers a minor in American Studies. This program requires students to select relevant electives from literature, humanities, social sciences and history.

Degrees: None

Tracks: None

Minors: American Studies

Asian Studies: Program

Contact: Consuelo Stebbins, CAS 190, 407-823-2251

An interdisciplinary minor designed to enhance multicultural education by offering students both an overview of Asian civilization and a detailed study of its most significant features. The focus of the program is on India, China, and Japan. Course work will include upper-level classes from the curricula of participating programs (anthropology, art history, economics, foreign languages, history, humanities, philosophy, political science).

Degrees: None

Tracks: None

Minors: Asian Studies

Department of Art

http://reach.ucf.edu/~art

E-mail: art@ucf.edu

Chair: Mark Price; VAB 117; 407-823-2676

Faculty: Abbas, Abraham, Burkhart, Burrell, Chavda, Cooper, Cutler, Francis, Gaudnek, Gonzalez, Hall, Haran, Haxton, Kilmer, Kim, Martin, Poindexter, Reedy, Rivers, Spencer, M. Wyatt

The faculty in the Department of Art teach studio arts, graphic design, and art history. The curriculum in Art provides professional preparation in art history, and in the studio concentrations of animation, ceramics, drawing, fibers and fabrics, graphic design, painting, photography, printmaking, and sculpture. A Bachelor of Arts is offered in art history and both the Bachelor of Arts and the Bachelor of Fine Arts degrees are offered in the studio specializations. Competitive scholarships and awards are available to currently enrolled full-time UCF art majors through portfolio reviews by faculty. These awards are sponsored by UCF and the Alturas Club of Winter Park.

Degrees: Art (BA, BFA)

Tracks: Animation, Art History, Studio Art

Minors: Art History, Studio Art

Community Arts—PAVE: Program

Program Director: Kevin Haran; VAB 117; 407-823-2676

A minor in Community Arts—Partners in Art in Visual Education (PAVE) is offered for the student who is majoring in Art, Music, Theatre, or English.

Degrees: None

Tracks: None

Minors: Community Arts

English: Department

http://www.english.ucf.edu

E-mail: english@ucf.edu

Chair: Thomas Krise; CHE 405; 407-823-1159


Professors Emeriti: Adickis, Omans, Schiffhorst

The Department of English is responsible for the effective teaching of language and literature in English, including World Literature, and creative, expository, and technical writing. Students may concentrate in creative writing, technical writing, or literature. The Department serves the broad needs of the University with course offerings in writing and literature for students from other departments. The department has a Technical Documentation Writing Lab and also publishes The Florida Review, The Cypress Dome, and The Faulkner Journal. An Honors in English program provides an enriched course of study for exceptional students, leading to graduation with honors. Program description follows concentration degree plans.

Degrees: English (BA, MA, MFA, Ph.D)

Tracks: Literature, Creative Writing, Technical Writing

Minors: Creative Writing, Literature, Linguistics, Technical Writing and Editing, Writing

School of Film and Digital Media

Interim Director: Terry Frederick

Administrative Assistant: Sue Ann Mann; 407-823-0362

Digital Media: Program

E-mail: dmdirector@mac.com

Division Head: Clint Bowers; OTC5 500; 407-823-1733

Faculty: Blue, Bowers, Cannon-Bowers, Carbone, Croft, Curasi, Deaery, Frederick, Gourlay, Hadrika, Hall, Hughes, Kenny, Moshell, McDaniel, Peters, Salisbury, Stapleton, Sung, Underberg, Weaver, Wirth.

Digital Media is a four year curriculum with areas of specialization in Visual Language and Interactive Media. Basic concepts in digital technology, story and performance are fundamental to the curriculum. There are strong interests in digital production and entertainment, serious games, internet issues and the development of digital media presentations via various electronic capabilities. Digital media partners with several companies in the area with internships, research activities and graduate work in game development.

Degrees: Digital Media (BA)

Tracks: Digital Interactive Systems and Visual Language

Minors: Minor, Certificate
Film: Program
http://www.film.ucf.edu
E-mail: film@ucf.edu
Division Head: Steve Schlow; COM 121; 407-823-0694
Faculty: Blum, Congdon, Cook, Fluegel, Gerstein, Harpole, Harris, Ingle, Johnson, Jones, Rohdie, Sandler, Schlow, Stockl, Yearwood

Offering a four-year undergraduate curriculum, the Film Department focuses on developing a student’s creative voice, and stresses entrepreneurial filmmaking and the use of new technology in the production and distribution of their work. Encompassing all aspects of filmmaking from conceptualization to distribution, the department prepares students to become effective independent filmmakers. Graduating seniors are required to complete a capstone film, script, or digital media project. Concentrations include: filmmaking, screenwriting, digital cinema, and cinema studies. Community partners include: Universal Studios Florida, Disney-MGM Studios, and the Florida Film Festival.

Students are selected for the “limited access” program by submitting an application form and creative portfolio by December 31. Complete information on faculty, curriculum, and admission requirements is available on the department website. Because this is a limited access program, students should pay close attention to the program admission requirements.

Degrees: Film (BFA) Cinema Studies (BA)
Minors: Film-Cinema Studies (BA)

Department of History
http://pegasus.cc.ucf.edu/history
E-mail: history@ucf.edu
Chair: Edmund Kallina; CNH 505A; 407-823-5450
Faculty: Adams, Beiler, Cassanello, Clark, Crepeau, Downing, Farless, Fernandez, Foster, Gordon, Greenhaw, Herlihy, Kallina, Lester, Lyons, Martinez-Fernandez, Solonari, Stockdale, Walker, White, Zhang

History is the study of the past. Its objective is to understand the past, and through the past, to understand the present. The discipline of history is more than 2,500 years old and remains a vital body of knowledge in the 21st century.

Students who are interested in becoming a lawyer should seriously consider major in history as a foundation for law school. Law is a historical phenomenon and part of the political, social, and economic processes that have contributed to the success of the United States. An understanding of history lends great insight to the function of, and motives behind the legal system. In addition, a careful study of history will enable the student to become effective in oral and written communication, while developing intellectual skills in critical thought and analysis, both of which are invaluable to the study of law.

The Department participates in the programs in Women’s Studies, American Studies, African-American Studies, Asian Studies, and Latin American, Caribbean and Latino Studies.

Degrees: History (BA, MA, Accelerated MA)
Tracks: None
Minors: History

Judaic Studies: Program
http://www.cas.ucf.edu/judaic_studies
E-mail: judaic@ucf.edu
Program Director: Professor Moshe Pelli; CNH 201, 407-823-5039 or 823-5129
Faculty: Hanson

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The program offers instruction, conducts research, and disseminates knowledge in the civilization of the Jewish people from Biblical times to the present day in the major dimensions of its creativity: literature, language, religion, philosophy, law, and social, political and economic organization. Because the roots of western culture and civilization and major world religions lie in ancient Jewish thought and practice as manifested in the Hebrew Bible and subsequent writings, Judaic Studies form an essential component of the university’s curricula.

The program enables students to acquire a foundation of knowledge of Jewish history, the Hebrew language, Jewish philosophy, culture, religious beliefs, and political aspirations; and to understand the contribution of Judaism to western civilization. The courses highlight major aspects of Jewish civilization, focusing on its interaction with other cultures and on the bodies of human knowledge upon which it draws. The program is designed to serve students pursuing careers in general or Jewish education, in international and Middle-Eastern affairs, in languages or liberal arts, in the ministry or rabbinate, and in the community at large.

Degrees: None
Tracks: None
Minors: Judaic Studies, Certificate

Latin American Program
E-mail: martfern@mail.ucf.edu
Program Director: Luis Martinez-Fernandez; VAB 203; 407-823-1173

The Latin American Area Studies Minor provides students with an interdisciplinary knowledge of, and the necessary tools to understand Latin America, the Caribbean and Latinos in the United States. Students completing the minor will be prepared to apply their knowledge on the areas covered by the minor in a variety of careers including, but not limited to education, government, journalism, foreign service, social and community service, international trade, and public relations.

Degrees: None
Tracks: None
Minors: Latin American Area Studies

Middle Eastern Studies Program
E-mail: kassim@mail.ucf.edu
Program Director: Husain Kassim, CNH 411J, 407-823-2803
Advisory Board Co-Chairs: John C. Bersia, Janan Smither
An interdisciplinary minor designed to offer students both an overview of Middle Eastern civilization and a detailed study of its most important features. The focus of the program is on the religious, political, historical and social forces shaping the region.

Course work will include classes from the curricula of participating programs (modern languages, history, humanities, Judaic studies, philosophy and political science).

Degrees: None
Tracks: None
Minors: Middle Eastern Studies

Department of Modern Languages and Literatures
http://www.cas.ucf.edu/forlang/
E-mail: forlang@ucf.edu
Chair: Paul Giordano; CNH 523; 407-823-2472
Faculty: Barberet, Barsch, Becker, Decker, Fabery, Fernandez, Ferri, Folse, Garcia, Gervasi, Korosi, Leticee, Lopez, Montalvo, Nalbone, Negy, Pollgreen, Prucha, Purmenski, Redmon, Rivera, Sipin, Spina,
The College of Arts and Humanities

Stebbins, Taylor, Trinquet-Balak, Villanueva, Vitanova, Micarelli (Professor Emeritus)

The Department provides instruction in Arabic, Chinese, French, German, Italian, Japanese, Latin, Portuguese, Russian, and Spanish, with majors in French, Spanish, and a Combination Major (two languages). The language combinations may consist of French, German, or Spanish as a first language, and any of these three, plus Italian, as a second language. These programs are designed to meet the needs of students who desire competency in a language and expanded understanding of a foreign culture and literature. Students desiring to major in a foreign language must meet all the requirements for graduation as set forth by the University, the College of Arts and Humanities, and by the Department of Modern Languages and Literatures.

Degrees: French (BA), Spanish (BA, MA), Modern Language Combination (BA), TESOL (MA)

Tracks: None

Minors: French, German, Italian, Spanish

Department of Music
http://www.cah.ucf.edu/music/
E-mail: music@ucf.edu

Chair: Johnny Pherigo; CNH 205; 407-823-2869, Fax 407-823-3378

Part-Time Faculty: Bagley, Fox, Hawkins, Hill, Hsu, Randall, Robertson, Titus, Schultz, Wei

The Department of Music offers a Bachelor of Music degree with options in performance and composition; a Bachelor of Arts Degree in music; and a Bachelor of Music Education Degree with specializations in instrumental, choral and elementary school music. The Music Education programs are approved by the Florida State Department of Education. Students who desire to be certified to teach in elementary and secondary schools should major in Music Education. Courses leading to teacher certification are offered cooperatively with the College of Education. Master of Arts and a Master of Education degrees in Music Education are offered by the College of Education. The Music Department is fully accredited by the National Association of Schools of Music. Music organizations on campus include Pi Kappa Lambda, Phi Mu Alpha, Sigma Alpha Iota, Tau Beta Sigma, Kappa Kappa Psi, Student Chapters of MENC and ACDA, and Music Student Advisory Council.

Degrees: Music (BA), Music Education (BME), Music Performance (BM)

Tracks: Music Performance, Composition

Minors: Music

Department of Philosophy
http://www.cas.ucf.edu/philosophy
E-mail: philosophy@ucf.edu

Chair: Shaun Gallagher; CNH 411; 407-823-2273
Faculty: Cash, Compson, Congden, Coverston, DiBernardo, Evans, Hawkins, Jaeger, Jones, Jones, Kassim, Mundale, Park, Schipper, Stanlick, Strawser, VanHook

The Department of Philosophy offers a Philosophy major and a Humanities major, with tracks in multicultural Humanities and in Religious Studies, as well as minors in Philosophy, Humanities, Religious Studies, and Cognitive Sciences. The Department requires Philosophy and Humanities majors to receive advisement prior to registering each semester. Majors should schedule appointments with their departmental advisor when picking up their registration form and schedule booklet. For any course used to satisfy a requirement (including electives) of either the Philosophy major or the Humanities major, a grade of “C” or better must have been received.

Degrees: Philosophy (BA), Humanities (BA), Humanities Religious Studies (BA)

Tracks: Regular and Honors

Minors: Philosophy, Humanities, Religious Studies, Cognitive Sciences

Department of Theatre
http://theatre.ucf.edu
E-mail: theatre@ucf.edu

Chair: Roberta Sloan; UTC 111; 407-823-2862.
Faculty: Alrutz, Bell, Boyd, Brotherton, Brown, Chicurel, Colombos, Flannery, Harris, Helsing, Huaixiang, Ingram, Larntonox, Lee, Listengarten, Melita, Niess, Ruscella, Rusnock, Schellhardt, Scott, Sey, Shafer, Siegfried, Smith (Professor Emeritus), St. Claire, Stribing, Tollefson, Vernon, Weaver, Woods, Wooten, Wuehrman

The Department of Theatre seeks to develop theatre artists of the highest quality by providing a select number of students with the training, education, and experiences necessary for the successful pursuit of professional careers in theatre arts and the entertainment industries. In support of this mission and the liberal arts goals of the College of Arts and Humanities, the department seeks to provide its students with the knowledge and skills necessary to live full, rewarding and productive lives. Offering both undergraduate Bachelor of Arts and the Bachelor of Fine Arts degrees; as well as graduate Masters of Arts and Master of Fine Arts degrees, the Department of Theatre undertakes to develop and graduate theatre artists who are sensitive, aware human beings. Through its public performance programs, the department endeavors to serve as a cultural resource for the University, the community and the central Florida region. Striving to provide its students with a competitive edge, the department employs a faculty and staff of artists/teachers who work intensely with students in the classroom and in production. To supplement this education and training, professional guest artists are brought to the campus to work in production and in the classroom. Before graduation, BFA students are required to complete a professional theatre internship and MFA students are required to complete a professional residency, thus providing them with a unique and invaluable introduction to the real world of professional theatre. Internships are optional for BA students. In all its endeavors, the Department of Theatre strives to create and maintain a professional environment necessary for the continued growth and development of its students, faculty, and staff.

Degrees: Theatre (BA, BFA, MA, MFA)

Tracks: Acting, Design and Technology, Design, Stage Management, Musical Theatre, Theatre for Young Audiences, Theatre Studies

Minors: Dance, Theatre

Women’s Studies: Program
http://www.cas.ucf.edu/womensstudies
E-mail: womenst@ucf.edu

Program Director: L. M. Logan ; CNH 201H; 407-823-6502
Faculty: Preston, Oliver

The Women’s Studies program offers an interdisciplinary minor and a certificate in Women’s Studies, in cooperation with several departments. The program examines women’s situation and contributions in past and present societies, women’s issues, and theories concerning women and gender.

Degrees: BA (Liberal Studies)

Tracks: Women’s Studies Track in Liberal Studies

Minors: Women’s Studies, Certificate
College of Business Administration

Dean: Thomas L. Keon, BA 230; 407-823-2181
Associate Dean: Bradley M. Braun, BA 230L; 407-823-5094
Associate Dean: E. Taylor Ellis, BA2 101-W; 407-823-2187

The College Mission Statement can be condensed into one sentence: The College of Business Administration advances the University’s mission and goals in providing intellectual leadership through teaching, research, and service. The vision is to create within the College an environment that nurtures learning and exploration, provides opportunities for faculty to disseminate information, provides educational opportunities for students, businesses and the general public, and provides a platform for many and various forms of partnerships.

Nurturing Learning and Exploration: The College is a catalyst for students, faculty, and the general public to gain a better understanding of the various fields of business. Educational experiences inspire learning and encourage exploration.

Dissemination of Information: Students are encouraged through the learning process to gather information to be used by them in future business vocations. Both students and faculty are encouraged to pursue outlets to share “new” information within their fields and to business practitioners.

Provide Educational Opportunities: Degree seeking individuals are provided with curricula leading to baccalaureate, masters, and doctoral programs. The College is also committed to providing more opportunities with structured learning experiences that “certify” non-degree seeking individuals as having accomplished a minimum requirement for a selected career.

Provide a Platform for Partnerships: The College is engaged in specific areas of excellence that provide opportunities for learning, exploration, and sharing. These specific areas of excellence take the form of Centers and Institutes, and selected niche areas of College units.

All undergraduate and graduate programs are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Admission to the University of Central Florida does not imply admission to the College of Business Administration. Students will only be
allowed to enroll in the 3000/4000 level courses taught by the College of Business Administration after they have been admitted to the College. Admission to the College will be granted when the following are complete:

- Completion of the University General Education program, or an AA degree from a Florida Public Community College, and a 2.0 GPA.
- Common Program Prerequisites with a 2.0 GPA and "C" or better in each class.

Students who otherwise meet the University admission requirements, such as entering freshmen and transfer students, will be placed in a major pending category until they meet the requirements set forth above. Only grades of "C" (2.0) or higher will transfer into the program. Each student should attend orientation for academic advising and should meet with an academic advisor in the College to outline a program of study.

BE2010
UCF Business...the Best Undergraduate Business Education in Florida. In 1993 the UCF Business faculty established a goal to deliver the best undergraduate business education in Florida. The product of the alumni, faculty, business leaders, and students, the Business Education 2000 (BE2000) curriculum focused on four competencies that are integrated throughout all coursework: Teamwork, Communication, Creativity, and Adapting to Change. These four competencies were expanded in 2002 to include Ethics and Diversity and constitute the BE 2010 curriculum. Faculties, working with representatives from the business community, help you develop these competencies as you work through the following required courses in the Common Body of Knowledge:

- GEB 3031 Cornerstone
- GEB3356 Introduction to International Business
- BUL 3130 Legal and Ethical Environments of Business
- ECO 3411 Quantitative Business Tools II
- FIN 3403 Business Finance
- MAN 3025 Management of Organizations
- ISM 3011 Essentials of Management Information Systems
- MAR 3023 Marketing
- MAN 4720 Strategic Management

Grade Point Average Requirements
For graduation the student must have maintained a minimum 2.0 GPA in course work taken in the College of Business Administration and a minimum 2.0 GPA in the course work required in the major, and a UCF minimum GPA of 2.0. In addition, all majors within the College of Business Administration also require a grade of "C" (2.0) or better in each course within the major.

Student Load
A student who is enrolled in 15 semester hours of course work is considered to be carrying a normal academic load. Students in the College of Business Administration desiring to take more than 17 semester hours in the Fall and Spring terms, and 14 semester hours in the Summer term must obtain permission from the College.

Community/Junior College Transfer Notes
1. Admission requirements can and do vary among the business and accounting programs at the ten universities comprising the State University System. To ensure that they have met all prerequisite course eligibility requirements, transfer students from Florida’s community and junior colleges should complete the following courses as part of their Associate of Arts degree: ACG 2021 (or ACG 2001 and ACG 2011), ACG 2071, ECO 2013, ECO 2023, MAC 2233, STA 2023,(or QMB 2100) and CGS2100. At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401 Business Quantitative Tools I. Students who have completed either MAC 2233 or STA 2023, but not both, must take ECO 3401. Completion of these courses will satisfy all prerequisite course requirements for all business and accounting degree programs and will ensure that a student will receive further consideration for admission.

2. Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in UCF’s Business program. Only grades of "C" (2.0) or higher transfer into the program.

3. Florida Public Community College students are advised to complete the Associate of Arts Degree including:
   a. The general education requirements
   b. The one year Accounting and Economics sequence
   c. College Algebra
d. CGS 2100

4. Professional courses should not be taken at a community/junior college in the areas of Accounting, Economics, Management Information Systems, Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year course areas in the College of Business Administration and cannot be satisfied with community/junior college courses.

5. A minimum of 12 semester hours must be completed at UCF within each individual major and 30 hours within the UCF College of Business.

Advisement
Undergraduate Student Services
Director: Helen Y. Hill; BA2 101; 407-823-2184
The Office of Undergraduate Student Services (USS) is the primary office for undergraduate assistance in the College of Business. Degree requirements, registration, and any questions concerning University and College academic policies affecting Business majors should be directed to the Office of Undergraduate Student Services staff in BAII 101 or by calling 407-823-2184. Visit USS’s home page at: http://www.bus.ucf.edu/uss/

Programs and Degrees
Title Degree
Accounting BSBA, MSA, MST
Business Administration MBA, Ph.D.
Economics BSBA, MAEE, Ph.D.
Finance BSBA
General Business BSBA
Management Information Systems BSBA, MS
Management BSBA, MS HR
Marketing BSBA
Business (Regional campuses only) BABA

Departments and Programs
Kenneth G. Dixon School of Accounting
Director: R. Roberts, Director; BA 437; 407-823-2871
Assistant to Director: M. Hampton; BA 438; 407-823-5678
Faculty: Bandy, Bobek, Dwyer, Evans, Goldwater, Johnson, Judd, Kellih, Klintworth, Lacy, Mahon, Roberts, Roush, Savage, Smith, Vaughan, Velt, J. Welch,

Mission Statement
The mission of the Kenneth G. Dixon School of Accounting is to provide high quality undergraduate, graduate, and professional educational programs responsive to the needs of students, community, and the profession. Teaching, research, and service are the means of accomplishing this mission. The School offers rigorous programs emphasizing communication skills, critical thinking, ethical practices, interpersonal skills, and technical competence preparing graduates for entrance into the accounting profession.

The School encourages intellectual contributions by faculty through instructional development, applied scholarship, and basic scholarship. The School provides service by participating in university governance, professional organizations, and professional educational programs. (Adopted by the faculty on March 4, 1993, and revised by the faculty on January 10, 1997.)

To prepare for any business career, a strong foundation in accounting and taxation will provide the variety of skills necessary to succeed in today’s complex financial world. An accounting degree prepares students for entry into the fields of industrial, managerial or governmental accounting, with a strong potential for career advancement.

The objective of the baccalaureate program with a concentration in accounting is to provide basic conceptual accounting and business knowledge as a foundation for accounting career development. The undergraduate degree also is the first step toward becoming a Certified Public Accountant, Certified Management Accountant and Certified Internal Auditor. The Kenneth G. Dixon School of Accounting also offers master’s degrees in accounting and taxation. These programs complete the education required to become a CPA. A rigorous and comprehensive accounting curriculum at UCF focuses on the real-world challenges of accounting, emphasizing problem
The College of Business Administration

Degrees

The BSBA Economics Program is to provide students with a professional business background that prepares them for careers in private business and government. The purpose of the economics BA Program is to provide a broad-based liberal arts background that can serve as a strong foundation for further graduate studies in law, social sciences, and other fields or as training for careers in politics, teaching, research, social service, and other areas. Both programs enable students to better understand and seek solutions to these issues. Undergraduate education in economics equips individuals to both understand and seek solutions to these issues.

The Department of Economics participates in two undergraduate degree programs: a BSBA degree and a BA degree. The purpose of the BSBA Economics Program is to provide students with a professional business background that prepares them for careers in private business and government. The purpose of the economics BA Program is to provide a broad-based liberal arts background that can serve as a strong foundation for further graduate studies in law, social sciences, and other fields or as training for careers in politics, teaching, research, social service, and other areas. Both programs enable students to better understand and seek solutions to these issues. Undergraduate education in economics equips individuals to both understand and seek solutions to these issues.

Distinctive Benefits

- Strong industry ties allowing for unique opportunities for placement and advancement.
- A competitive internship program that places graduate students in positions with major employers in the community.
- The opportunity to enroll in outstanding graduate programs in accounting and taxation.
- A very strong faculty known for their teaching excellence.
- Over a dozen scholarships available to advanced students.
- Active student organizations including the Student Accounting Society and Beta Alpha Psi.
- A faculty committed to the continuous improvement of the accounting and taxation programs.
- Outstanding pass rates on the CPA exam.

Degrees: Accounting (BSBA, MSA, MST)

Minors: Accounting

Department of Economics

Chair: W. Milon; BAZ 305-D; 407-823-3266, economics@bus.ucf.edu

Faculty: Anton, Braun, Buhagiar, Caputo, Dickie, Elston, Euzent, Finnoff, Gerking, Gibbs, Hamilton, Harrison, Hoffer, Hosni, Im, Martin, McHone, Mikhail, Milton, Moore, Pennington, Potter, Rungeling, Rutstrom, Scrogin, Soksin, Tramel, Underwood, White

Faculty Advisor: R. Pennington; BAZ 303-B; 407-823-2640

Economic issues dominate today's news and public debates more than ever before. Inflation, unemployment, health care, economic growth, pollution, poverty, and international economic relations are a few of these issues. The primary strength of economics is that it provides a logical, ordered way of looking at most problems and issues. Undergraduate education in economics equips individuals to both better understand and seek solutions to these issues.

The Department of Economics participates in two undergraduate degree programs: a BSBA degree and a BA degree. The purpose of the BSBA Economics Program is to provide students with a professional business background that prepares them for careers in private business and government. The purpose of the economics BA Program is to provide a broad-based liberal arts background that can serve as a strong foundation for further graduate studies in law, social sciences, and other fields or as training for careers in politics, teaching, research, social service, and other areas. Both programs enable students to better understand and seek solutions to these issues. Undergraduate education in economics equips individuals to both better understand and seek solutions to these issues.

Distinctive Benefits

- Flexible Curriculum: Students tailor the program to their individual interests through a large selection of economics electives.
- International Perspective: Exposure to the global economy through the International economics electives (10), including Area Studies (Europe, Japan, China, Pacific Rim, and Mexico).
- Interdisciplinary Linkages: Economics links with many other disciplines allowing for double majoring in Finance, General Business, and Political Science.
- Teaching quality: Many of the Economics faculty have received Excellence in Teaching Awards.
- Opportunity for strong quantitative and analytical training.
- Student Organizations: The Economics Club is an active student organization linking students to Alumni.
- Excellent preparation for law school admission.

Degrees: Business Economics (BSBA, MAAE, Ph.D.)

Minors: Economics

Department of Finance

Chair: A. Byrd; BA 409; 407-823-3575

Faculty: Ajayi, Atkinson, Block, Borde, Byrd, Chen, Cheney, Choi, Daimyle, Frye, Gilkeson, Gregg, McQuillen, Modani, Park, Ragozzino, Ramanian, Scott, Schnitzlein, Singer, Smith, Weaver, Whyte

The program in finance is designed to provide the student with broad knowledge in finance, including business finance, investments, financial institutions, international finance, risk management and insurance, and real estate. The program provides the student with the theoretical background and tools of analysis required for making effective financial decisions. The study of finance prepares the student for careers in business financial management.

Distinctive Benefits

- Students prepare for career opportunities in business and corporate financial management, commercial banking, real estate, investment management and counseling, investment banking, mortgage banking, multinational business, insurance and government.
- Students who major in finance are sought by both financial and non-financial firms.
- The rapidly changing domestic and international economies need individuals who have the skills to make sound financial decisions.

Degrees: Finance (BSBA), Real Estate (BSBA)

Minors: International Business, Real Estate, Finance

Certificates: Banking, Commercial Real Estate, Investments Real Estate, Residential Real Estate, Corporate Finance, Investments

General Business

Faculty Advisor: B. Moore; BA 466; 407-823-5256

This option allows students to develop a general program of study which will satisfy career objectives not provided for by the specialized areas of concentration. To pursue this option, students should seek advisement in the Department of Economics. An academic advisor will be assigned to assist each student in developing a meaningful program of study.

Degrees: General Business (BSBA, MBA, Ph.D)

Minors: For non-Business majors

Department of Management

Chair: F. Jones; BA 335; 407-823-2679

Faculty: Ambrose, Arnaud, Barringer, Becker, Bogumil, Butcher, Callahad, Connell, Fernald, C. Ford, R. Ford, Holland, Huseman, Keon, Migenes, McDonald, Putchinski, Quin, Schminke, Stone, Sussan, Uhl-Bien, Viggiano

Tomorrow's managers must be prepared to meet the challenges of a highly dynamic and rapidly changing business environment. The objective of the Management program is to prepare students for the excitement and opportunities that this presents. To learn about management, students study the processes and techniques of leadership, planning, controlling and staffing of both small and large organizations.

The curriculum is designed so that students can choose to concentrate in specialized areas of Entrepreneurship and Human Resource Management, or students can choose to major in General Management which allows them to take a broader variety of course work and prepares them for general management responsibilities.

The General Management major prepares students for a career that involves decision making responsibilities regardless of organization or assignment. The department goal is to emphasize the expertise, knowledge, and skills necessary to be not only a team player, but ideally a team leader. Whether the student is studying leadership, motivation, staffing, or international management, the curriculum will sharpen students' skills in problem identification, analysis, and solution. The major can lead to a variety of rewarding careers in management positions throughout the organization. The department offers more specialized training - using the same approach - via our Human Resource Management major. Career paths include positions in training and development, personnel and employee relations, equal opportunity and labor relations, human resource consulting, and more. For students interested in starting their own business or working for smaller fast growing organizations, the department offers specialized training via the Entrepreneurship Track.

Distinctive Benefits

- Excellent faculty, known for their creativity and enthusiasm in the classroom, and their commitment to students in and out of the classroom.
- A broad-based training that will open up opportunities in high-growth career areas.
The MIS major is ideal for students who excel at solving problems and who can take responsibility for implementing their solutions in working organizational systems. Students in the program are trained to be comfortable shifting between the big picture and the detailed view of a problem and its solution. They also have their communication skills refined so that they are better able to communicate effectively as they discover the nature of the organizational problem (or opportunity), as they present their solutions, and as they manage the system implementation.

Successful MIS graduates have a variety of career options open to them, which lead to competitive salaries and travel opportunities. While many graduates join internal MIS staffs or consulting firms, there is a wide array of choices available to them. Graduates can choose between large and small companies, emerging or stable industries, and from among a multitude of career paths.

Distinctive Benefits
- Challenging field of study that rewards inquisitive students who are willing to work toward a goal.
- Student internship opportunities throughout the Central Florida region.
- An active student organization (MISA).
- Excellent job opportunities and starting salary prospects.
- Ability for graduates to apply and integrate all of the functional areas of business early in their professional careers.

Degrees: Management Information Systems (BSBA)
- Master of Science, Management Information Systems (MS/MIS)

Minors: Management Information Systems

Department of Marketing
Chair: R. Michaels; BA 307; 407-823-2108;
http://www.bus.ucf.edu/marketing/index.htm
Faculty: Allen, Borrioci, Crowson, Das, Davis, Desiraju, Echambadi, Ganesh, Gundy, Gupta, Harris, Howatt, Jordan, Kim, Maryott, Mayfield-Garcia, Michaels, Rubin, Sooder, Stock, Whang, Yoon

The Marketing major at UCF is called Impact Marketing 2010, or simply IM2010. It provides a superior education in the foundations of marketing such as research, customer behavior, professional selling, management, and strategy. A wide assortment of electives is designed to let each student round out his/her education according to specific career interests, whether that might be retailing, advertising, e-business, research, sales, sports marketing, healthcare, entertainment marketing or services. Internships are also readily available, and count as a marketing elective. Skills emphasized and developed throughout the curriculum are teamwork, communication, creativity, quantitative analysis, computing, problem solving, decision-making, thinking globally, and driving change.

A great benefit for Marketing majors is the opportunity to earn a certificate in any of seven areas of career interest: Selling and Sales Management, Retailing Management, E-Marketing, Sports Marketing Management, Healthcare Marketing, Entertainment Marketing and Services Marketing. Students can design a personalized certificate program combining elective courses with an internship that will enhance their value to potential employers.

The department offers an 18-hour minor in Marketing. This course of study provides a strong basic education in Marketing for business students with majors other than Marketing or students with majors from other colleges. Earning a minor in Marketing can add significant value and career flexibility for any student with any major.

Marketing is vitally important to all organizations and individuals, from global corporations to small businesses, from CEOs to the proprietors of small retail stores, from global manufacturing operations to a new dot com startup. Nearly one-third of the civilian work force in the United States is employed in jobs related to marketing. Marketing offers a variety of interesting and challenging career opportunities, such as professional selling, retailing, advertising, marketing research, sports marketing, distribution and logistics, purchasing, and e-business. In addition, students with marketing degrees may find excellent job prospects in international markets. Marketing career opportunities also exist in a variety of non-business organizations, including hospitals, museums, universities, and government and social service agencies. Marketing also provides a strong career foundation for movement into top management positions.

Distinctive Benefits
- IM2010 program for Marketing majors recognized as one of the most innovative in the country.
- Seven certificate programs are available for Marketing majors.
- An 18-hour Marketing minor is available for students with other majors.
- Twenty-two dynamic faculty members are among the strongest teachers in the college.
- Comprehensive course offering each semester and summer - you can finish!
- Full-time faculty teach approximately 90% of undergraduate classes offered by the Department.
- Strong emphasis on preparing students for marketing management careers.
- Approximately 15 scholarships awarded annually on a competitive basis.
- Opportunities to participate in honors in the major, internships, independent projects, and directed studies.
- Opportunities to participate in national award-winning student chapters of the American Marketing Association and The Society for Marketing Professional Services (SMPS).

Degrees: Marketing (BSBA)
Tracks: Generalist, Sales
Minor: Marketing

For more information, visit http://www.bus.ucf.edu/marketing/index.htm, or call 407-823-2108. Department office is located in BA 353.
The role of the College of Education at the undergraduate level is to provide a high-quality education for students in preparation for careers in early childhood, elementary, secondary, exceptional, physical, technical education, and sports and fitness professionals. The College of Education is dedicated to preparing professional educators/reflective practitioners who meet the needs of our schools and society.

**College of Education**

*Dean:* Sandra L. Robinson; 407-823-5529  
*Executive Associate Dean:* Jennifer C. Platt; 407-823-2046  
*Associate Dean:* B. Grant Hayes; 407-823-5391  
*Associate Dean:* Rex Culp  
*Deans’ Office:* ED 308  
*http://education.ucf.edu/*
The College of Education

Art Education
Early Childhood Education
Elementary Education
English Language Arts Education
Exceptional Student Education
Foreign Language Education
Mathematics Education
Physical Education
Science Education
Social Science Education
Sports and Fitness
Technical Education and Industry Training

Success to Significance
- America’s 100 Best Colleges of Education 2005
- Invited to join the Carnegie Corporation of New York — Teachers for a New Era
- State and National Accreditation
- Proven and promising practices
- Partnerships within the eleven county school districts
- High quality teacher education programs
- Leadership in reform efforts
- Strength of faculty and students
- Broad influence in higher education community
- Access to cutting edge educational technologies
- Opportunities to become involved in professional education organizations
- State-of-the-art facilities
- UCF Academy for Teaching, Learning and Leadership
- Toni Jennings Exceptional Education Institute
- Florida’s Literacy and Reading Excellence Center (FLARE)
- Lockheed Martin Academy for Mathematics and Science
- Consortium for Social Responsibility and Character in Education
- Early and continuous field experiences
- Internships with highly qualified teachers
- Infusion of multicultural education, ESOL and technology throughout classes
- Majors in Early Childhood, Elementary, Exceptional and English Language Arts Education graduate with an ESOL Endorsement
- Graduates are eligible for professional teacher certification

Admission to the College of Education

Admission to the College will be granted when students meet the following requirements:
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete common program prerequisite courses

Transfer Notes:
Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Common Program Prerequisites sections because the revision of State Board of Education Rule 6A-5.066 has made programs highly prescriptive, which may result in additional coursework to satisfy degree requirements. Students are responsible for all ESOL Assignments for all UCF ESOL-infused courses that may be transferred from other institutions.

New student will:
1. Meet college advising representatives in a group setting during Orientation to:
   a. Discuss College of Education admission requirements needed for enrollment in 3000/4000 level classes
   b. Review degree program requirements
   c. Understand expectations and responsibilities associated with a career in education;
2. Be advised by the College of Education Office of Student Services (ED 110) if their major is Education Pending. An appointment is recommended (407) 823-3723; and,
3. Be assigned to a faculty advisor in the area of their major upon completion of College of Education admission requirements. The faculty advisor’s name and telephone number appear on the SASS Degree Audit and in Polaris to assist students in making an advising appointment.
4. Purchase LiveText software at the beginning of the first semester of enrollment in the College of Education and utilize, based on program requirements.

Continuing students will:
1. Set up an appointment with their faculty advisor if accepted in a major or the Office of Student Services, if a “Pending” major, to review academic progress and to develop an academic plan. Review this plan each term with an advisor prior to registration;
2. View a SASS Degree Audit through Polaris;
3. Register at scheduled appointment time in Polaris. Students with extenuating circumstances may register in person in the College of Education Office of Student Services. Students must complete any changes to their schedules by the end of the published Add/Drop period; and,
4. Utilize LiveText software based upon program requirements.
5. File an “Intent to Graduate Form” in the College of Education by the end of the term prior to the term in which graduation is intended.

Office of Student Affairs

Executive Director: Tina Smilie, ED 110, 407-823-3723
Located in the Education Complex in Suite 110, the Office of Student Affairs is dedicated to facilitating the success of students seeking advisement, assistance, and support in the College of Education. The Office of Student Affairs is organized into the Offices of Clinical Experiences, Minority Programs in Education, and Student Services.

Mission Statement

The mission of the College of Education Office of Student Affairs is to provide seamless services and resources to current and prospective students including recruitment, pre-advising, orientation, program advising, financial assistance, internships, graduation certification, and graduate education. To promote student success, we collaborate with and support College of Education faculty, administrators, and community partners.

Office of Clinical Experiences

Director: Carolyn Walker Hopp; ED 110, 407-823-2436
http://reach.ucf.edu/~edintern

Clinical experiences provide students with a broad range of instructional experiences in various school settings developed through cooperative planning with local school district administrators and teachers. Clinical experiences are an integral part of every degree program and consist of early field experiences as well as Internship I and Internship II. Placement of students is the responsibility of the College of Education.

Students must be aware: if they have been arrested for certain crimes, they may not be able to be placed in internships and/or hired as a teacher. All school districts require fingerprinting prior to Internship I. All applications for internships are made through the Office of Clinical Experiences.

Application deadlines for all Internships are as follows:
March 1 for Fall semester
September 15 for Spring semester

Admission to Internship I

Admission to Internship I will be granted to students who have been admitted to the College of Education and who meet the following additional requirements:
- Have on file in the University admissions office passing scores on all 4 parts of the Florida Teacher Certification Examination General Knowledge Test and/or College Level Academic Skills Test (CLAST) (no alternatives or waivers are accepted).
- Possess minimum overall GPA of 2.5
- Possess minimum specialization GPA of 2.5
- Possess minimum professional preparation GPA of 2.5
- Achieve a “C-” (1.75) or better in all prerequisite methods/specialization courses
- Complete a formal application for Internship I online by deadlines listed above
- Meet any special departmental requirements
Be recommended by the faculty of the department of the student’s major

Internship I is a three semester hour experience. Students are assigned to work with certified supervising teachers under the direction of a university coordinator. Students are enrolled in a limited number of related professional courses during the experience. Additional courses may be taken only with the consent of the academic program coordinator and department chair.

Admission to Internship II

Internship II is a 9-12 semester hour experience (depending on the program) normally completed during the student’s last semester. Internship II is considered a full-time experience, and students are permitted to enroll in other classes only with the consent of their academic program coordinator and department chair. Admission to Internship II will be granted when students have met the following requirements:

- Successfully complete Internship I
- Have on file passing scores on all 4 parts of the Florida Teacher Certification Examination General Knowledge Test and/or College Level Academic Skills Test (CLAST) (no alternatives or waivers are accepted)
- Possess a minimum overall GPA of 2.5
- Possess minimum professional preparation GPA of 2.5
- Achieve a “C-” (1.75) or better in all prerequisite methods/specialization courses, and a minimum GPA of 2.5 is required in the professional preparation and specialization areas.
- Complete a formal application for Internship II by deadline
- Be recommended by the faculty of the department of the student’s major
- Meet any special departmental requirements

Students must also have completed all methods courses and most of their specialization courses. Some programs (such as Elementary Education) require all specialization courses to be completed prior to Internship II. Students must also be approved for admission by the faculty in the department of the student’s major. Internship II experience is completed locally.

Office of Minority Programs in Education

Director: TBA; ED 110, 407-823-0184
http://pegasus.cc.ucf.edu/~mpie/

The Office of Minority Programs in Education (MPIE) is designed to recruit and retain diverse students as they prepare for a career in education. MPIE provides future educators with financial assistance, academic support, and professional development. Each student admitted into the program is paired with a faculty mentor in the College.

Program Objectives

- Recruit and retain diverse students interested in careers in teaching
- Promote academic excellence and foster professional development
- Assist in job placement
- Encourage community involvement and commitment

Scholarship Requirements

Students must meet the following criteria:

- Eligible groups: African-American/Black, Asian-American/Pacific Islander, Hispanic, or American Indian/Alaskan Native
- Be a Florida Resident
- Be admitted into the UCF-College of Education as a degree-seeking undergraduate student
- Minimum semester and overall grade point average of 2.5
- Submit Scholarship Application

Successful interview with the Scholarship Application Review Committee
- Submit two letters of recommendation and current resume
- Complete 40 hours of community service for each year the scholarship is received

Application deadlines:
- July 1 for Fall semester
- November 15 for Spring semester

Office of Student Services

Director: Andrea Withington, ED110, 407-823-3723
http://pegasus.cc.ucf.edu/~stuservw/

The College of Education Office of Student Services assists students with orientation, registration information, general academic advisement, college and University academic requirements and graduation certification. Education Pending majors are advised in the Office of Student Services. Students are assigned a faculty advisor upon meeting College of Education admission requirements. Students are encouraged to make an early appointment with an academic advisor. Information regarding majors offered by the College of Education can be obtained in the Office of Student Services or at http://www.edcollege.ucf.edu/ (click on Student Services).
Admission to the University of Central Florida does not imply admission to the College of Education. Students will be allowed to enroll in the 3000/4000 level courses taught by the College of Education after they have been admitted to the College.

Graduation Requirements
To qualify for graduation, a student must successfully complete all coursework to include a minimum overall GPA of 2.5, a minimum 2.5 GPA in all specialization courses, and a minimum 2.5 GPA in professional preparatory courses. In addition, students must pass all applicable sections of the Florida Teacher Certification Exam (FTCE) and complete a portfolio according to program guidelines to meet graduation requirements.

Alternative Certification for Non-Degree Students
All students who have earned a Baccalaureate degree from an accredited institution and who desire to be certified in Elementary Education must complete an undergraduate or masters degree program in Elementary Education. For other certification areas for which the College has programs, students may elect to complete 1) an undergraduate degree 2) a graduate degree or 3) an alternative program as a post-baccalaureate student. Students must meet regular admission requirements for the College of Education and Teacher Education.

Department of Educational Studies
Chair: Karen L. Biraimah; ED 209B; 407-823-2426
Assistant to the Chair: Ximenia Mejia; ED 206-E; 407-823-6579
Faculty: Ackley, Allen, Alvarez, Becker, Boote, Brown, Condry, Gill, Sluti-Eriksson, Goodman, Hewitt, Holt, Hutchinson, Johnson, Kaplan, Koger, Luckett, Lue, Meyer, Miller, Munroe, Offer, Short, Stewart
The Department of Educational Studies serves all students in the College of Education. The Department provides instruction in the core professional courses that address the competencies and skills needed by all undergraduate majors. These courses emphasize learning theory, teaching strategies, diversity, and the social, philosophical and historical foundations. The Department provides courses for all masters and doctoral programs in education, and coordinates the core courses for the Curriculum and Instructional Doctoral Program and the Graduate Certificate in Initial Teacher Preparation. The Department houses the Masters of Education in Curriculum and Instruction Program, with M.Ed., M.A. and Graduate Certificate options in Gifted Education, Urban Education, and Multicultural and Global Education. Educational Studies graduate courses provide opportunities for students to advance their knowledge and skills related to multicultural, social, and psychological factors, curriculum and instructional theories, and the historical and philosophical factors that influence education.

Department of Child, Family, and Community Sciences
Chair: TBA; ED 209-H; 407-823-2595
Assistant to the Chair: Roanne G. Brice; ED 206-D; 407-823-0664
Faculty: Albers, Balado, Blanes, Casado, Cross, Daire, Dieker, Edwards, Englehart, Ezzell, Fuller, Hartle, Hayes, Hines, Hughes, Jennings, Jones, Klein-Ezzell, Lambie, Little, Manning, Martin, Miller, Mumford, Oliva, Platt, Ray, Robinson, Szentze, Taub, Thomas-Richmond, Wienke, Young
Undergraduate academic major programs leading to bachelor's degrees and certification are offered in Child, Family and Community Sciences. Students who major in Early Childhood Education are qualified to teach Pre-Kindergarten through grade 3 upon graduation and receipt of a Pre-Kindergarten through Primary Florida Teaching Certificate. (Pre-Kindergarten Exceptional Student Education is embedded in this certification). Students majoring in special education are certified K-12 in exceptional student education. Students are responsible for completion of program requirements and are encouraged to review their programs with an assigned advisor.
Several graduate level programs are available in the department:
The Master of Education in Exceptional Education: Exceptional Student Education is available for teachers already certified in an area of exceptional education, whereas the Master of Arts in Exceptional Student Education is designed for non-education majors or previously certified teachers in another field. Each program may lead to teacher certification.

Certification and Master’s level programs are available in Early Childhood Education and Counselor Education, with an emphasis on school counseling or mental health counseling. A Specialist Program is available in School Psychology. A graduate level certificate program is available in Sports Leadership. The Ph.D. in Education is available with tracks in Counselor Education and Exceptional Education.

Department of Teaching and Learning Principles
Chair: Robert Williams; ED 209-D; 407-823-4836
Assistant to the Chair: Dr. Lawrence Mione, ED 206-C, 407-823-0588

Elementary/Middle Education
The Elementary Education program is designed for prospective teachers interested in the education of children, five through twelve years of age. Students who major in elementary education are qualified to teach grades kindergarten through six upon graduation and receipt of a Florida teaching certificate.

Secondary/Post Secondary Education and Training
Programs in this area are designed for prospective teachers/trainers interested in working with students in a specific academic or vocational area in middle/junior high school, high school, selected post-secondary educational settings, and selected technical training settings in business and industry. Specialization is available in Biology, Chemistry, English, Mathematics, Physics, and Social Science Education, Sports and Fitness, and Technical Education and Industry Training. Graduate level programs are available in Art Education, Elementary Education, English Language Arts Education, Educational Media, K-8 Mathematics and Science Education, Mathematics Education, Music Education, Physical Education, Science Education, Social Science Education, Reading Education and Vocational Education. The Ph.D. in Education is available with tracks in Mathematics Education and Elementary Education.

K-12 Education
Programs in this area are designed for prospective teachers in content areas that may be applied in any school setting from Kindergarten through grade twelve. Specialization is available in Art, Foreign Language (French or Spanish), and Physical Education.

Department of Educational Research, Technology and Leadership
Chair: Conrad Katzenmeyer; ED 209D; 407-823-4835
Assistant to the Chair: Christine Karper; ED 206B; 407-823-0623
The Department of Educational Research, Technology and Leadership provides graduate programs in the following areas: Educational Leadership, Research, Evaluation and Assessment, Technology, Higher Education and Policy Studies.
College of Engineering and Computer Science
Dean: Neal C. Gallagher; ENG2 202; 407-823-2156
Interim Executive Associate Dean for Research: Debra Reinhart; ENG2 202; 407-823-2156
Associate Dean for Academic Affairs: J. F. Nayfeh; ENGR 107; 407-823-2455
Assistant Dean for Distributed Learning: Samuel Richie; ENGR 289; 407-823-5765
Director, Academic Support Services: Melissa Dagley-Falls; ENGR 107; 407-823-2455
Director, of College Honors Programs: Mohamed Abdel-Aty, ENGR2 301H 308; 407-823-21795657
Website: http://www.cecs.ucf.edu
Assistant Dean for Distributed Learning: Samuel Richie; ENGR 289; 407-823-5765
Director, Minority Engineering & Computer Science Programs: Jacqueline Smith; ENGR 281; 407-823-3466
The College of Engineering and Computer Science

Undergraduate Majors and Degrees

Aerospace Engineering
Civil Engineering
Civil Engineering - Construction Engineering Concentration
Computer Engineering
Computer Engineering - Software Engineering Concentration
Computer Science
Electrical Engineering
Electrical Engineering - Wireless Communication Concentration
Electrical Engineering - Photonics Concentration
Electrical Engineering - Operations Concentration
Engineering Technology - Space Systems Concentration
Environmental Engineering
Industrial Engineering
Information Systems Technology
Information Technology
Mechanical Engineering - Energy Systems Concentration
Mechanical Engineering - Mechanical Systems Concentration
Mechanical Engineering - Materials Concentration

Accelerated BS/MS Degree Program

All of the Engineering and Computer Science departments except for the Departments of Civil and Environmental Engineering. Engineering Technology, and the Information Technology Program are offering an Accelerated BS/MS degree program which will allow students of high academic standing to complete an MS degree at an accelerated pace. The generic rule for students in this program is that they will be allowed to use up to twelve hours of selected courses with a grade of “B” or higher toward fulfillment of both the BS and MS degree requirements. Interested individuals should see the program descriptions in the graduate and undergraduate catalogs. They may also contact the department Assistant Chair and/or Graduate Coordinator if they have any further questions.

College Vision

The College of Engineering and Computer Science (CECS) at the University of Central Florida will be recognized nationally and globally for undergraduate and graduate education, research and partnership. CECS will strive to become a top 50-ranked college within the university for undergraduate and graduate education, research and partnerships. The College of Engineering and Computer Science will achieve high standards in all aspects of education, research and technology application. These accomplishments will take place in a College dedicated to diversity, quality, resource expansion and partnerships throughout all of its operations and programs.

College Mission Statement

The CECS primary mission is to further the knowledge and practice of the engineering and computer science professions nationally and internationally by:

- Providing the highest quality and innovative learning/teaching environment in undergraduate and graduate curricula, to prepare a diverse student body to be effective, contributing members of a technological society and lifelong learners.
- Expanding the knowledge base of engineering and computer science through dynamic research and applying new discoveries for problem solving.
- Providing collaborative leadership with external partners in advancing technological breakthroughs for the economic and social well being of humankind.
- Extending educational opportunities to technology practitioners locally, nationally and globally to enhance human performance, and economic and technical development.

College Core Values

- Honestly: Tell the truth and be aboveboard and candid.
- Integrity: Foster trust and be accountable for one’s actions.
- Professionalism: Adhere to a professional code of ethics, continuing to learn while striving for excellence.
- Family: Pursue life outside of the professional environment, giving family a priority.
- Altruism: Work as a team; help each other; and sacrifice for the common good. Understand that each individual’s work is part of a larger purpose and plan.

College Goals

- A national caliber, diverse College that is recognized with leadership in research and teaching.
- Distinguished, innovative undergraduate programs to provide graduate-like education for undergraduates.
- High quality graduate education to meet the needs of Florida and the U.S. and to achieve national and international prominence.
- A model for university outreach, globalization and partnerships
- A college with national and international visibility.
- An inclusive, open and supportive environment.

Students who seek a challenging technical career in research and development, design, technical sales, manufacturing, management, teaching, or other professions requiring a methodical, creative solution to problems should seriously consider pursuing an education in engineering, engineering technology, or computer science. The internationally-recognized faculty of the College of Engineering and Computer Science, together with its strong curricula of undergraduate and graduate programs, provide an opportunity for ambitious, responsible men and women to become the leaders of our increasingly technological world. Because of the significance of science and technology to our everyday lives, today’s engineer, engineering technology, and computer scientist must be aware of the impact of his or her creations on society. In addition to the public health and welfare, aesthetics, economics, and energy-use implications, our graduates also consider environmental, sociological, and other humanistic costs. A degree from the College of Engineering and Computer Science is also recognized as a valuable asset to those entering other professional pursuits such as the medical or law professions, architecture, education, the military professions, or even politics.

College Organization

The College of Engineering and Computer Science is organized into three major divisions: the Engineering and Computer Science Division, the Engineering Technology Division, and the Reserve Officer Training Corps (ROTC) Division. The Engineering and Computer Science Division is comprised of the School of Electrical Engineering and Computer Science (SEECS) and three engineering departments: the Civil and Environmental Engineering (CEE) Department, the Industrial Engineering and Management Systems (IEMS) Department, and the Mechanical, Materials and Aerospace Engineering (MMAE) Department. The School of Electrical Engineering and Computer Science is comprised of the Computer Science Department, and Information Technology, and Electrical and Computer Engineering. The Engineering Technology Division is comprised of the Engineering Technology (ENT) Department, and the ROTC Division is made up of the Aerospace Studies Department (Air Force ROTC) and the Military Science Department (Army ROTC).

All components of the Engineering and Computer Science Division, except Information Technology, also offer advanced studies leading to the Master of Science degree in Engineering, or the Master of Science degree with a dual major in Engineering. Students who seek a challenging technical career in research and development, design, technical sales, manufacturing, management, teaching, or other professions requiring a methodical, creative solution to problems should seriously consider pursuing an education in engineering, engineering technology, or computer science. The internationally-recognized faculty of the College of Engineering and Computer Science, together with its strong curricula of undergraduate and graduate programs, provide an opportunity for ambitious, responsible men and women to become the leaders of our increasingly technological world. Because of the significance of science and technology to our everyday lives, today’s engineer, engineering technology, and computer scientist must be aware of the impact of his or her creations on society. In addition to the public health and welfare, aesthetics, economics, and energy-use implications, our graduates also consider environmental, sociological, and other humanistic costs. A degree from the College of Engineering and Computer Science is also recognized as a valuable asset to those entering other professional pursuits such as the medical or law professions, architecture, education, the military professions, or even politics.
The College of Engineering and Computer Science

Engineering and Technology (ABET), 111 Market Place, #1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700, FAX: (410) 625-2238. The Engineering Technology Department also offers a Bachelor of Science degree in Information Systems Technology (BS). This degree is designed for students who have completed 33 credit hours of lower level technical courses at a community college in the areas of networking, programming, information technology, computer science, computer engineering and technology or closely related disciplines.

The College houses the ROTC Division for those students desiring to pursue military training while earning their degree. The AFROTC program offers a minor in Aerospace Studies, and the AROTC program offers a minor in Military Science.

The Honors Program in the College of Engineering and Computer Science

The engineering and computer science leaders of tomorrow must not only have impeccable technical credentials, but must also be able to provide strong leadership within the general community in which they live. With this in mind, the Honors Program in the College of Engineering and Computer Science offers outstanding undergraduate engineering, engineering technology, and computer science majors an enriched educational, technical, professional and cultural experience that significantly augments the basic curricula. Honors students comprise academically superior students who commit, upon acceptance into the program, to do broad as well as advanced work in a chosen area.

The objective of the Honors Program is to provide exceptional students with an opportunity to express their creativity and problem-solving abilities through challenging coursework and participation in research projects. In addition, the program exposes students to a wide variety of issues dealing with the role of engineers and computer scientists and the impact of the profession on society. Honors students also participate in several programmed activities, such as lectures by distinguished scholars, engineers, and public figures, visits to local and regional industries and to governmental and military research facilities.

There are two programs available to eligible CECS students: 1) the University Honors Program (see the section on the University Honors Program found in The Burnett Honors College section of this catalog) and 2) the Honors in the Major Program (HIM).

The Honors in the Major Program

The College of Engineering and Computer Science Honors in the Major program is designed for two types of students: 1) Highly qualified students who did not participate in the University Honors Program and would like to have the experience of an Honors curriculum, and 2) University Honors program students who desire to continue the Honors curriculum beyond what the University Honors Program offers. The centerpiece of the Honors in the Major program is the opportunity to undertake independent research as an undergraduate under the guidance of a faculty member in his/her major. The Honors in the Major represents a total of six semester hours of work. These credit hours are acceptable as technical electives by all programs except for Electrical and Computer Engineering. Electrical and Computer Engineering students in the HIM program use the HIM credit in lieu of Senior Design I and II. These six credit hours consist of an Honors in the Major Seminar titled Research Methods in Engineering (EGN 4931H) (three semester hours), plus three semester hours of Undergraduate Honors Thesis (EGN 4970H).

The latter will result in an undergraduate thesis which will describe the research done by the student. The student will defend his/her thesis before a committee of faculty in the field as part of an oral examination covering the honors work. A sponsoring faculty member is required to supervise the undergraduate thesis.

In order to be admitted to the Honors in the Major program, the student must:
1. Have at least 60 semester hours, including at least 12 graded, upper division semester hours at UCF.
2. A minimum UCF GPA of at least 3.20 in all upper division courses.
3. A minimum GPA of 3.50 or more in the Engineering option courses.
4. A recommendation by a sponsoring faculty member. Exceptions to the eligibility criteria may be made by the College Honors Committee in individual cases, upon recommendation by a sponsoring faculty member.

To successfully complete the HIM program and receive said designation, the student must successfully defend the thesis and graduate with a minimum of 3.5 GPA in the option courses, and minimum 3.2 GPA at UCF. No exceptions to this policy will be made for graduation. Successful candidates will be awarded an Honors in Engineering/Engineering Technology/Computer Science mention on the diploma and transcript, representing satisfactory completion of the program. Moreover, each department will award a limited number of graduate scholarships (with tuition waivers) to those who apply for graduate school and have successfully completed this program.

Application for admission to the Honors in the Major Program must be made to the College of Engineering and Computer Science Honors Director, Niels Lobo (Computer Science). Harris Corp. Engineering Center, Room 252, or Mohamed Abdel-Aty, (Engineering) Engineering Building 2, room 301H. For more information about The Burnett Honors College programs, please visit their homepage at http://www.honors.ucf.edu.

The LEAD Scholars Program in the College of Engineering and Computer Science

Engineering, engineering technology, and computer science students may also participate in the LEAD (Leadership Enrichment and Academic Development) Scholars Program (see the section on the LEAD Scholar Program found elsewhere in this catalog).

Additional Information on UCF Baccalaureate Engineering, Engineering Technology, and Computer Science Programs

Information on each UCF engineering, engineering technology, computer science, and information technology program follows, and more current information can be found on the College home page at http://www.cecs.ucf.edu/ and on the home pages of each department. For the home page associated with a particular program, see the listing for that department on the following pages of this catalog.

Department of Civil and Environmental Engineering

Interim Chair: A. Gonzalez; ENG2 211; 407-823-2841, Fax: 407-823-3315

Faculty: Abdel-Aty, Al-Deek, Catbas, Chang, Chopra, Cooper, Dietz, Hagen, Kuo, Nnadi, Oloufa, Radwan, Randall, Reinhart, Taylor, Wanielista, Wayson, Yeh, Zhao

The Civil and Environmental Engineering Department (CEE) offers baccalaureate degrees in both Civil Engineering (BSCE) and Environmental Engineering (BSEnvE).

The Civil Engineering Program

The Civil Engineering major is concerned primarily with fundamental civil engineering design and analysis in such areas as structures, geotechnical engineering, sanitary engineering, water resources, transportation engineering, and construction engineering. Civil Engineering students are required to take a minimum of two Project Design Courses, which synthesize various pre-requisite course offerings into a design project. Students in the Civil Engineering with Construction option are required to take two Project Design Courses (Construction Design Project and Geotechnical Engineering Design). These projects are usually “open-ended” and duplicate real world engineering problems. The students typically work in small design team groups. The pre-requisites needed for the various project courses vary.

Mission

The Civil Engineering Program Faculty strives to create a high quality learning experience for our students. The principal goals include:
1. Provide a broad engineering education to our graduates that will prepare them for both current and future professional challenges.
2. Promote a commitment to continued scholarship and service among our graduates.
3. Foster a spirit of innovation so that our graduates are positioned to take advantage of new technology in our profession.
4. Promote an environment that is inclusive and diverse.
5. To attain prominence in key areas of Civil Engineering graduate education and research.
The College of Engineering and Computer Science

Program Objectives
Within the first several years following graduation, graduates should:
- Be successfully employed or employable in civil engineering practice in areas such as structural, geotechnical, transportation, construction, water resources, or related fields and/or be continuing their studies at the graduate level.
- Show a commitment to ethical practice and professional development by extending their knowledge through continuing education and self-directed life-long learning, professional licensure, and service to the profession and society.

Educational Objectives
1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Civil Engineering such as structures, geo-technical, water resources, transportation, construction, surveying, and environmental.
2. Provide a professional engineering education that challenges our graduates to think critically and that will prepare them for a successful professional career.
3. Ensure that all our undergraduate students gain experience in applied engineering design within a broad curriculum.
4. Form and maintain partnerships with industry, government agencies, and professional organizations.
5. Develop awareness of the changing needs of society and local, state, national, and global environment and infrastructure.
6. Provide our graduates with a strong knowledge base to enhance their professional skills and develop their abilities to perform credible research.

The Environmental Engineering Program
The Environmental Engineering major is concerned primarily with the interactions with humans and their environment and the planning, design, and control of systems for environmental quality management for water, land, and air environments.

Environmental Engineering students are required to take a minimum of two Project Design Courses (out of four offered) which synthesize various pre-requisite course offerings into a design project. These projects are usually “open-ended” and duplicate real world engineering problems. The students typically work in small design team groups. The pre-requisites needed for the various project courses vary.

Mission
The Environmental Engineering Program Faculty strives to create a high quality learning experience for our students. The principal goals include:
1. Provide a broad engineering education to our graduates that will prepare them for both current and future professional challenges.
2. Promote a commitment to continued scholarship and service among our graduates.
3. Foster a spirit of innovation so that our graduates are positioned to take advantage of new technology in our profession.
4. Promote an environment that is inclusive and diverse.
5. To attain prominence in key areas of Environmental Engineering graduate education and research.

Program Objectives
Within the first several years following graduation, graduates should:
- Be successfully employed or employable in environmental engineering practice in areas such as solid waste, air pollution, water and wastewater treatment, water resources, or related fields and/or be continuing their studies at the graduate level.
- Show a commitment to ethical practice and professional development by extending their knowledge through continuing education and self-directed life-long learning, professional licensure, and service to the profession and society.

Educational Objectives
1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Environmental Engineering such as solid waste, air pollution, water and wastewater treatment, water resources, or related fields.
2. Provide a professional engineering education that challenges our graduates to think critically and that will prepare them for a successful professional career.
3. Ensure that all our undergraduate students gain experience in applied engineering design within a broad curriculum.
4. Form and maintain partnerships with industry, government agencies, and professional organizations.
5. Develop awareness of the changing needs of society and local, state, national, and global environment and infrastructure.
6. Provide our graduates with a strong knowledge base to enhance their professional skills and develop their abilities to perform credible research.

The mission statement and objectives for the Civil Engineering and Environmental Engineering programs are electronically posted and continuously updated. More information on the Civil and Environmental Engineering programs can be found on the CEE Department home page at http://www.cee.ucf.edu.

Department Policy for Double Major in Civil and Environmental Engineering
The faculty of the Civil and Environmental Engineering Department believe that a double major from our department should reflect a significant achievement of students, and therefore a significant increase in knowledge and formal coursework above the requirements for a single degree. Any undergraduate in Civil or Environmental Engineering desiring to obtain a double major disciplines shall meet the following requirements:
- the student shall meet all individual requirements for each degree
- the coursework must include two different capstone design courses, one from each program
- the student shall notify the Chair of his/her intent to pursue a double major by the start of the final academic year (3 semesters) of coursework, and shall have a “program of study” prepared and approved by the Chair
- completion of requirements for both majors must be in the same semester.
- the same catalog year must be used for both majors

Additional notes:
- All students, by meeting the requirements for each degree, will be able to represent themselves as either a Civil Engineer or an Environmental Engineer or both.
- The double major program for a student must be approved by the Chair in the final year. This eliminates last-minute confusion by the student and allows the Chair time to review the technical elective, and the specific design courses being taken by each student.
- The 24 hours represents two additional semesters of full time enrollment, and represents the minimum requirements for a second degree.
- The 24 hours of courses would include all the required courses of the other discipline (15 hours) plus two additional capstone design courses plus one technical elective (as approved by the Chair).
- The double major will be so indicated on one diploma. If a student desires two separate diplomas, a B.S.C.E. and a B.S.Env.E, this is permitted for students who have a minimum of 150 credit hours.

School of Electrical Engineering and Computer Science
Director: Dr. Issa Batarseh; Harris Corp Engineering Center; 437D; 407-823-2787

The Computer Science Program
The Computer Science program offers courses and programs leading to Bachelor of Science, Master of Science (see Graduate Catalog), and Doctor of Philosophy (see Graduate Catalog) degrees in Computer Science. In addition, the program offers minors in Computer Science, Applied Computer Science, and Computer Information Technology.
The College of Engineering and Computer Science

The program strives to meet the requirements for professional careers and research in software development and computing systems technology by producing graduates with a broad base of formal course work. Students may use required elective credit to concentrate their degree in one or more major research areas, including computational biotechnology, computational complexity, computational geometry, computer architecture, computer graphics, computer networks, computer simulation, computer vision, databases systems, design and analysis of algorithms, distributed computing, digital media, evolutionary computing, graph theory, machine learning, natural language processing and knowledge-based systems, neural networks, operating systems, parallel processing, software engineering and VLSI design tools and hardware algorithms.

Research facilities are organized around laboratories directed by faculty members. Facilities in these laboratories change rapidly and are generally funded through external research grants, supplemented by grant matching and startup funds from SCS. To learn about the current status of research facilities and projects, visit faculty web pages. These may be found by following links from the computer science home page at http://www.cs.ucf.edu/.

Mission

The mission of the Computer Science program is to educate majors in the principles and practices of computer science, preparing them for graduate school, for careers in software development and computing technology, and for a lifetime of learning.

Objectives

1. CS majors should be practiced in the design and analysis of algorithms using mathematical and statistical methods and techniques.
2. CS majors should be proficient in the use of modern and widely-used programming languages.
3. CS majors should be practiced in abstract reasoning and modeling of complex real-world systems.
4. CS majors should be practiced in oral and written communication skills, particularly as these skills apply to the dissemination of technical information on subjects dealing with computing technology and applications.
5. CS majors should be practiced in the use of state-of-art software development methodologies, tools and language.
6. CS majors should be highly competitive in securing entry-level positions in software and computer system development industries.
7. The top fifteen percent (15%) of all graduating CS majors shall be qualified and prepared for pursuing graduate studies in the top tier graduate schools in Computer Science.

The Information Technology Program

The Information Technology program offers courses leading to the Bachelor of Science degree in Information Technology. Information Technology encompasses computer hardware, software, peripheral devices and their use in communication networks and information systems. IT-related disciplines include database engineering, network engineering, performance planning, system security, digital media design, and web server design. The program provides students a strong conceptual core, which will prepare them to be lifelong learners, along with significant hands-on experience. The inclusion of advanced courses in technical writing, a course in ethics, and for careers in information technology as well as in a wide variety of disciplines that integrate information technology into their respective fields of activity.

Objectives

1. Graduates will learn the principles and practices of information technology, along with the mathematical and engineering foundations of this discipline.
2. Graduates will obtain the skills to solve complex problems via the development of models, and the design, implementation, and analysis of computer realizations of these models.
3. Graduates will be prepared for successful careers in information technology. This preparation will include the abilities to work in teams, to communicate effectively, and to experience a lifetime of learning.

Electrical and Computer Engineering Programs

The Electrical and Computer Engineering programs offer baccalaureate degrees in both Electrical Engineering (BSEE) and Computer Engineering (BSCpE). Graduates degrees leading to the Master of Science in Engineering (M.S.E.) and Doctor of Philosophy (Ph.D.) are also offered.

The curriculum provides an integrated experience including humanities and social sciences, mathematics and basic sciences, engineering core, computing, and design experience. The laboratory experiences appropriately combine theory and practice in the Electrical and Computer Engineering programs through a logical progression of courses. Design experiences start with the first circuits course, EEL 3004, and progress to the senior design capstone courses. This senior design experience is a two-semester sequence totaling six credit hours. Aspects of engineering economics, administration, oral presentation, professional issues such as ethics, safety and environmental impact are also covered in the design courses. The design projects required in the design course sequence address real-life problems, and the students work in a team setting. Also, several projects are developed jointly with our industrial partners.

The Computer Engineering Program

The Computer Engineering program contains a minimum of 24 credit hours of design experience, which includes courses listed as Computer Systems Design I and II (EEL 4776C and EEL 4778C), Engineering Applications of Computer Methods (EEL 4832), Computer Systems Design I and II (EEL 4767C and EEL 4768C), Engineering Data Structures (EEL 4851C), and Introduction to Digital Circuits and Systems (EEL 3342C). Technical electives can give additional design experiences in specialty areas such as computer architecture, intelligent systems, networking, software engineering, and simulation systems.

Mission

The mission of the Bachelor of Science in Computer Engineering Degree Program is to educate students to become highly skilled in the principles and practices of computer engineering and develop computer engineers that meet market needs.

Objectives

1. Graduates will acquire sufficient academic competence in fundamental math, science, and engineering principles for employment in computer engineering.
2. Graduates will acquire sufficient academic competence for advanced graduate studies.
3. Graduates will demonstrate overall competence in the computer engineering discipline, including the ability to design systems and processes, conduct and analyze experiments, and learn and utilize computer skills.
4. Graduates will demonstrate overall competence in communication skills, computer skills, and problem solving skills, and the ability to work in interdisciplinary teams.
5. Students are recognized by their employers for their knowledge and skills in solving real world problems, and for their professionalism.

The Electrical Engineering Program

The Electrical Engineering program contains a minimum of 18 credit hours of design experience. This is achieved through such courses as Linear Control Systems (EEL 3657), Electronics I and II (EEL 3307C and EEL 4309C), Digital Signal Processing (EEL 4750), Signal Analysis and Communication (EEL 3552C), Computer Systems Design I (EEL 4767C), Networks and Systems (EEL
3123C) and Digital Circuits and Systems (EEL 3342C). Technical electives can give additional design experience leading to work in communications, controls, image and signal processing, microelectronics and solid state devices, microwaves and electromagnetics, optical engineering, and power/power electronics.

**Mission**
The mission of the Bachelor of Science in Electrical Engineering Degree Program is to educate students to become highly skilled in the principles and practices of electrical engineering and develop electrical engineers that meet market needs.

**Objectives**
1. Graduates will acquire sufficient academic competence in fundamental math, science, and engineering principles for employment in electrical engineering.
2. Graduates will acquire sufficient academic competence for advanced graduate studies.
3. Graduates will demonstrate overall competence in the electrical engineering discipline, including the ability to design systems and process, conduct, and analyze experiments, and learn and utilize computer skills.
4. Graduates will demonstrate overall competence in communication skills, computer skills, and problem solving skills, and the ability to work in interdisciplinary teams.
5. Students are recognized by their employers for their knowledge and skills in solving real world problems, and for their professionalism.

The School’s web site (http://www.eecs.ucf.edu/) is a central point from which visitors may view current policies and procedures of our programs. In particular, links from this page provide up-to-date answers to frequently asked questions (FAQ’s) concerning academic advisement, student professional societies, undergraduate research opportunities, and means to effectively communicate concerns (comments, suggestions, complaints). We ask that you visit this site and follow its guidelines before you send e-mail and letters, or make phone calls to faculty members and administrators.

**Department of Industrial Engineering and Management Systems**
Chair: Lesia Crumpton-Young; ENG2 312; 407-823-2204, Fax 407-823-3413

Industrial Engineers work to continuously improve the design of systems, processes, or products. They design systems that translate a specific product design into a physical reality in the most productive manner in which to deliver high-quality service to the customer. In government organizations the industrial engineer is active in assuring that tax payers receive maximum service to the customer. In doing so, the industrial engineer deals with decisions regarding the utilization of people, materials, machines, and automation (including robotics). Industrial engineers are also skilled in Engineering Economic Analysis and Information Management since they are generally considered to be the natural interface between the technical specialist and management.

Industrial Engineers are generally sought in industry, service, and government organizations. In the industrial sector, the industrial engineer is concerned with improving productivity and quality of the manufacturing, distribution, and management system of organizations. In the service sector, the industrial engineer is concerned with determining the most productive manner in which to deliver high-quality service to the customer. In government organizations the industrial engineer is active in assuring that tax payers receive maximum service for their tax dollars.

The Industrial Engineering approach is characterized by a systematic evaluation of alternatives using quantitative analysis, and computer simulations. As such, quantification and measurement play a key role in the day to day activities of the industrial engineer.

Engineering design experiences are incorporated into many of the required industrial engineering core courses. For instance, students learn how to apply the principles of engineering design to production systems and cost estimation in EIN 3354, to work methods and process flows in EIN 3314, and to facilities design and plant layout in EIN 4364. The design experience concludes with a real-world systems design in the two-semester capstone design sequence, EIN 4116 and EIN 4891.

**Mission**
To produce industrial engineering professionals and leaders who, working alongside their coworkers, can design and improve operations in industry, business, and government, making them more productive, more responsive, and producing goods and services of higher value to the customer for the global economy of the 21st century.

**Objectives**
1. BSIE graduates will demonstrate knowledge of math, science, and engineering fundamentals. Specifically, the student will have the ability to:
   - Demonstrate general design principles.
   - Use fundamental engineering techniques, skills, and tools for engineering practice.
   - Analyze and interpret data to produce meaningful conclusions and recommendations.
2. BSIE graduates will demonstrate competence in the professional practice of industrial engineering, effectively using both technical and qualitative skills. Specifically, the student will have the ability to:
   - Design systems, components, and processes to meet desired needs.
   - Identify, formulate, and solve industrial engineering problems.
   - Use industrial engineering techniques, skills, and tools for engineering practice.
   - Be a productive member of multi-disciplinary teams.
   - Communicate effectively in both written and spoken presentations.
   - Incorporate contemporary issues into the practice of industrial engineering, including global communication.
   - Have the knowledge to become a Professional Engineer (PE) in the IE discipline.
3. BSIE graduates will understand the leadership responsibilities of a practicing engineer. Specifically, the graduate will understand the need to:
   - Make decisions in light of professional and ethical responsibilities.
   - Understand the impact of engineering solutions in a global and societal context.
   - Understand contemporary issues in the practice of industrial engineering.
   - Engage in lifelong learning.
4. BSIE graduates seeking professional employment or admission to graduate education programs will be successful in doing so within six months of graduation.
5. IEMS students will receive relevant curriculum content in a learning environment that facilitates learning and retention.


**Department of Mechanical, Materials, and Aerospace Engineering**
Chair: Ranganathan Kumar; ENGR 307; 407-823-2416, Fax 407-823-0208

The Department of Mechanical, Materials, and Aerospace Engineering offers undergraduate degree programs in Mechanical Engineering and Aerospace Engineering. The Aerospace Engineering program is designed to provide a broadly-based foundation in aeronautics and astronautics, including topics such as aerody-
The College of Engineering and Computer Science

The Mechanical Engineering program is designed to provide a broadly-based foundation in thermo-fluids, mechanical systems and materials, including topics such as solid mechanics, machine design, vibrations, CAD/CAM/FEM, feedback control and mechatronics, fluid mechanics, heat transfer, and structures and properties of materials. Both programs seek to convey an understanding of the fundamental principles of science and engineering, to stimulate curiosity and creativity, to provide hands-on experience in laboratories, and to prepare students to design systems which solve current and relevant societal problems. The design experience begins in the freshman year and grows throughout the curricula with increased emphasis on student creativity, open-ended problems, materials selection, design methodology, feasibility considerations, alternative solutions, and concurrent design, and culminates in the senior capstone design courses. The use of computers and written and oral communication are part of the design experiences throughout the programs.

Mission: Aerospace Engineering
In support of the University and College missions, the Aerospace Engineering program at UCF is committed to provide the highest quality aerospace engineering professionals and leaders. Through cooperative efforts with regional aerospace industry and the Florida Space Institute, our graduates will be well prepared for their role as aerospace engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be life-long learners, pursuing their personal and professional development. Through these characteristics our graduates will be able to rise to positions of prominence in the technical society of tomorrow.

Aerospace Engineering Program Educational Objectives and Outcomes
Career Preparation: The program prepares graduates for employment as engineers in aerospace or allied disciplines, and for graduate study in engineering, business, or allied areas. Students will emphasize aeronautical systems or space systems, and will have a command of corresponding engineering principles. Among the obvious career opportunities are the design and development of aircraft, missiles, and spacecraft systems. Aerospace technologies are also important and applicable to power applications such as turbomachinery. Also, many environmental problems associated with wind effects on buildings, structures, etc., are appropriate to the methods and technology of aerospace engineering.

Skills: To prepare graduates with skills enabling them to be productive in their chosen career. These tools include understanding contemporary topics in aerospace technology, command of modern engineering tools, design experience, and professional experience appropriate to their post-graduation goal.

Professionalism: To produce graduates who communicate effectively, who understand and undertake professional responsibilities, and who function effectively as members and leaders of multidisciplinary teams.

Life-long Learning: To produce graduates who believe that their undergraduate aerospace engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

Mission: Mechanical Engineering
In support of the University and College missions, the Mechanical Engineering program at UCF is committed to provide the highest quality engineering professionals and leaders. Through cooperative efforts with regional industry, our graduates will be well prepared for their role as mechanical engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be life-long learners, pursuing their personal and professional development. Through these characteristics our graduates will be able to rise to positions of prominence in the technical society of tomorrow.

Engineering Program Educational Outcomes and Objectives
Career Preparation: The program prepares graduates for employment as engineers in mechanical or allied disciplines, and for graduate study in engineering, business, or allied areas. Students will emphasize mechanical systems, energy systems, or materials, and will have a command of corresponding engineering principles. Among the career opportunities are power generation, mobility engineering, manufacturing, nuclear applications, from zipper to space shuttle.

Skills: To prepare graduates with skills enabling them to be productive in their chosen career. These tools include understanding contemporary topics in mechanical technologies, command of modern engineering tools, design experience, and professional experience appropriate to their post-graduation goal.

Professionalism: To produce graduates who communicate effectively, who understand and undertake professional responsibilities, and who function effectively as members and leaders of multidisciplinary teams.

Life-long Learning: To produce graduates who believe that their undergraduate mechanical engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

Department of Engineering Technology
Chair: R. Eaglin; ENGR 207; 407-823-5937, Fax 407-823-4746
Program Coordinator: BSET Programs: L. Morse; ENGR 207; 407-823-4742
Program Coordinator: BSEE Program: A. Rahrooh; ENGR 207; 407-823-4749
Program Coordinator: Information Systems Technology: B. Motlagh; ENGR 207; 407-823-4748
Faculty: Burroughs, Coowar, Craiger, Divo, Ducharme, Mehrabian, Miscioni, Morse, Motlagh, Osborne, Rahrooh, Shepard

Mission
The mission of the Engineering Technology program is to educate students to become professional technologists who meet the current needs of industry.

Objectives
1. Provide excellent curriculum content (e.g. math, science, and engineering technology principles, discipline-related topics and skills, and competencies in communication, problem solving, teamwork) to prepare students for professional practice in engineering technology.
2. Provide an educational program so graduates are successful in attaining professional employment.
3. Provide an excellent learning environment so the graduates are competitive with other BS Engineering Technology graduates from other U.S. institutions.
4. Provide educational content so graduates understand and value professional ethics, integrity, and diversity.

The mission statement and objectives for Engineering Technology are electronically posted and continuously updated. More information on the Engineering Technology programs can be found on the ENT Department home page at http://www.ent.ucf.edu.

Bachelor of Science in Electrical Engineering Technology (BSEE)
This program in electrical engineering technology, leading to the BSEE degree, provides a structured curriculum with instruction in fundamentals and engineering principles applicable toward working with both present and future technologies in a variety of work environments. Graduates may find employment opportunities in such diverse fields as aerospace, instrumentation, computers, communications, consumer products, banking and education. They may become involved in applied design, product development, manufacturing, quality assurance, production and operations as well as activities such as field engineering, sales, system analysis, technical writing and software design, preparation and programming.

The EET program provides three paths of concentration, there-by providing the student a choice between either a hardware or a software emphasis. The concentration in Electrical systems provides a broad based curriculum in electrical/electronic engineering principles, and their application. Instruction and problem solving experiences are provided in both circuit and system aspects including computers, communications, controls and electrical power. The concentration in Computer Systems, while providing a firm foundation in electrical/electronics technology, also includes extensive instruction in programming, system design and analysis, and systems programming. Projects in solving real-world problems are required of all students in this concentration. The concentration in Photonics provides

The College of Engineering and Computer Science
The College of Engineering and Computer Science

a background in optics, lasers, electrical systems, and the use and theory of light. It is designed to provide the necessary education for a career in the photonics industry.

Bachelor of Science in Engineering Technology (BSET)
The BSET curriculum consists of a carefully integrated program that includes professional studies, general education, and applied mathematics and sciences. Through the selection of the upper level technical concentration students can build and tailor their program, based on previous knowledge to assist them to launch a career that best meets their needs and aspirations. The Design concentration provides advanced course work in preparation for employment at the baccalaureate level in the fields of manufacturing, testing and fabrication of mechanical parts, and the building and construction industries. Graduates may become involved in applied design, product development, manufacturing or production, to name but a few. The Operations concentration provides an orientation for professional careers in technical management and operations in the manufacturing, sales, services, and construction industries. Graduates may become involved in many diverse areas including product development, manufacturing, quality assurance and logistics, sales, field engineering, technical writing and safety. The Space Science Technology concentration prepares students for a career in launch and space operations, payload management, and other requirements to work in the space industry. Projects in solving real-world problems, are required of all students in the BSET program. In addition to the engineering technology core, all concentrations in the BSET program have a common lower division core as well as a common upper division core.

Bachelor of Science in Information Systems Technology (BS)
The Engineering Technology Department also offers the Bachelor of Science degree in Information Systems Technology (BS), designed to accept Associate of Science (AS) degree graduates from community college programs in Computer Programming Technology, Digital Communications, and Networking. The IST curriculum provides the AS graduate with additional course work in networking and computer systems. It also provides skills and knowledge related to project management in Information Technology. A characteristic of this curriculum is that it contains less mathematics and natural science than do the BSET and BSEET curricula.

Reserve Officer Training Corps

Air Force ROTC (Aerospace Studies)
Chair: Col. William G. Palmby; Trailer 501, Room 103; 407-823-1247, Fax 407-823-2265
Faculty/Staff: Captain Williams, Captain Ellingson, Captain Little, TSgt Fields, SSgt Crawford, and Mrs. Fioramante, Office Manager

The Department of Aerospace Studies provides pre-commissioning education for qualified students who desire to serve as commissioned officers in the active duty Air Force. The department offers four-year, three-year, and two-year Air Force ROTC programs. The four/three-year program provides on-campus study during the freshman through senior years. The two year program allows community college transfer students and other students with two academic years remaining in either undergraduate or graduate status to earn an Air Force commission while completing their studies. All programs offer scholarship opportunities to selected students. Students are invited to write or visit the Department of Aerospace Studies to obtain additional information. The Air Force retains sole discretion whether or not any applicant is qualified for pre-commissioning education through the Air Force ROTC. More information on the Aerospace Studies program can also be found on the UCF AFROTC home page at http://airforce.ucf.edu and the Air Force ROTC home page at http://www.afrotc.com/

Curriculum

Students enrolled in the Air Force ROTC program may major in any academic discipline and earn a minor in Aerospace Studies. A major is not offered by this department. AFROTC courses are listed under the prefix AFR. The curriculum is divided into two phases:

1. General Military Course (GMC)
The General Military Course is designed to give students their first exposure to the Reserve Officer Training Corps program during their freshman and sophomore years. The courses deal with the mission, organization, and structure of the US Air Force, and the development of air power into a prime element of American national security.

2. Professional Officer Course (POC)
The Professional Officer Course is designed to develop and hone managerial and officer skills during a student’s junior and senior years. All students who seek a commission through the Air Force ROTC must complete the POC curriculum. The curriculum involves the study of concepts of leadership and management in the Air Force and an analysis of the formulation and implementation of American defense policy.

Leadership Laboratory
Leadership Laboratory is a required lab that must be taken in conjunction with the academic class. Leadership Laboratory is only open to students who are members of the Reserve Officer Training Corps or are eligible to pursue a commission as determined by the Professor of Aerospace Studies.

Requirements for entry into the Professional Officer Course

- Be at least 17 years of age at the time of acceptance
- Be able to complete the Professional Officer Course and complete all degree requirements prior to reaching age 29 if entering Flight Training, or before age 30 (can be waived to age 35) if entering a non-flying Air Force specialty
- Pass the Air Force Officer Qualifying Test
- Pass an Air Force medical examination
- Pass the Air Force Physical Fitness Test each semester
- Selection by the Professor of Aerospace Studies
- Successful completion of a summer Field Training course (either four or six weeks)
- Enlistment in the Air Force Reserve certifying agreement to complete the POC and accept an Air Force Commission. This enlistment is terminated upon receipt of a commission

Monetary Allowance

All contracted students enrolled in the Professional Officer Course receive a tax-free monetary allowance of $350 or $400 per month based on their academic classification.

Air Force ROTC Scholarship Program

Scholarships are phased at four, three, and two year opportunities. This system provides opportunities to those students enrolled in certain academic majors. Depending on state residency and credit hours, these scholarships may provide for full tuition and fees, and an allowance for textbooks. For additional information on Air Force ROTC call 407-823-1247 or visit our web site at http://airforce.ucf.edu or e-mail us at AFROTC@mail.ucf.edu. This information is subject to change.

Summer Training

All students must attend a summer Field Training course conducted at Maxwell Air Force Base in Montgomery, AL, Tyndall Air Force Base in Panama City, FL or Ellsworth AFB in Rapid City, SD. This course includes junior officer training, officer career orientation, and physical conditioning. Students enrolled in the four-year AFROTC program will attend a four-week summer course, normally upon completion of the General Military Course. A six-week summer course, which includes a modified version of the General Military Course, is required for students entering the two-year AFROTC program. These students must complete their summer training prior to their formal enrollment in the Professional Officer Course curriculum. These students need to contact the department early in the Fall prior to the Summer Field Training.

Officer Commissioning

Students who complete the Professional Officer Course are appointed Second Lieutenants in the United States Air Force. After completing the training program and entering active duty, they will serve a minimum active duty tour which varies in length depending on their particular career area (typically four years). Such obligations are explained in detail during the one-on-one counseling sessions conducted with each candidate by detachment officers.

Army ROTC (Military Science)
Chair: LTC Allison R. Reinwald; Trailer 501, Room 110
Faculty/Staff: LTC Christensen, MAJ Fallon, CPT Brown, CPT
A. The Basic Military Science courses, open to both men and women, are taken during the junior and senior years. These courses specialize in small unit tactics, operations, staff procedures, decision making and leadership. Students who desire a commission as a Second Lieutenant are contracted and paid a tax-free subsistence of $350.00 per month up to 10 months during their Junior year and $400.00 per month during the Senior school year. Each student is required to take courses that meet the Army’s Professional Military Education Requirements. Students must meet pre-requisite requirements and must obtain permission from the department chair prior to participating in the Advanced course. Placement credit is offered to all students with prior service. Prior service experience waives the required Basic Courses. Prior service is extended to include Active duty, Reserve Forces and National Guard. Although prior service does waive the Basic Courses, if a prior service student desires, he/she may elect to enroll in the Basic Courses.

5. Placement Credit
Placement credit is offered to all students with prior service. Prior service experience waives the required Basic Courses. Prior service is extended to include Active duty, Reserve Forces and National Guard. Although prior service does waive the Basic Courses, if a prior service student desires, he/she may elect to enroll in the Basic Courses.

6. Daytona Beach Campus Students
These students should contact the Professor of Military Science at Embry-Riddle Aeronautical University, Daytona Beach, Florida, (904) 239-6469. Students will participate in a Field Training Exercise (FTX) and will commission, if qualified, with Embry-Riddle.

Summer Training Courses
1. Basic Course Summer Training (Leader Training Course)
A student can earn placement credit for the Basic Course classes and allowed entry into the Advanced Course by attending a six-week course at Fort Knox, Kentucky, thereby allowing completion of all requirements for commissioning within two years. Students attending the summer course receive approximately $700.00 pay. Additionally, all lodging, meals and transportation are furnished. Uniforms will be provided at no expense.

2. Specialized Summer Training Courses
Qualified students can be selected to attend specialized military training occurring the summer months. These areas of training include: a) Airborne Training; b) Air Assault Training; c) Northern Warfare Training; d) Cadet Troop Leadership Training; e) Master Fitness Training; and f) Mountain Training.

3. Leadership Development and Assessment Course (LDAC) All students must attend and successfully pass a five week camp conducted at Fort Lewis Washington prior to receiving a commission as an Army Officer. This camp evaluates a student’s leadership performance and potential. Students normally attend LDAC after their junior year and receive approximately $800 pay for the training.
The College of Health and Public Affairs houses six departments and schools: the School of Nursing, the School of Social Work, and the departments of Communication Sciences and Disorders, Criminal Justice and Legal Studies, Health Professions, and Public Administration.

The College fosters excellence in undergraduate and graduate education, research and community services in health, social and justice services. In addition to a PhD program in Public Affairs and in Nursing, the College houses both undergraduate and graduate interdisciplinary programs that contribute to a solid educational foundation in public affairs.

General Requirements for the Bachelor’s Degree

Some Schools, Departments or Programs in the College are upper division, limited access programs. Acceptance by or registration at the University does not constitute admission to the following: Schools of Nursing and Social Work, and the Programs in Athletic Training, Cardiopulmonary Sciences, Health Information Management, and Radiologic Sciences.

Application must be made to the appropriate program in health sciences. For Social Work and Nursing, contact the appropriate School. Additional information regarding prerequisites and minimum grade point averages may be obtained from the desired School, Program, Department, or College website.

The following Departments and Programs do not have restrictions on admissions: Communication Sciences and Disorders, Criminal Justice/Legal Studies, Public Administration, Health Sciences - Pre-Clinical Allied Health Track, and Health Services Administration.

Academic Advisement

Office of Undergraduate Student Services

Director: Judith A. Sindlinger; HPA2 115; 407-823-0010; E-mail: hpainfo@mail.ucf.edu

The College of Health and Public Affairs Office of Undergraduate Student Services assists undergraduate students in understanding matters relating to college and university requirements and procedures as well as coordinating orientation, registration and graduation certification. Students interested in pursuing limited access programs are encouraged to meet with advisors in the college to stay on track by taking the appropriate prerequisite requirements. Advisors are available through the Outreach Program for students on probation or for those who are having academic difficulty. Questions concerning university and college academic policies should be directed through this office. Faculty advisors are assigned to students upon admission to their degree program in their academic department.

Programs and Degrees

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<thead>
<tr>
<th>Major</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Cardiopulmonary Sciences</td>
<td>BS</td>
</tr>
<tr>
<td>Communication Sciences and Disorders</td>
<td>BA, BS, MA</td>
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<tr>
<td>Criminal Justice</td>
<td>BA, BS, MS</td>
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<tr>
<td>Health Information Management</td>
<td>BS</td>
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<tr>
<td>Health Sciences-Athletic Training</td>
<td>BS</td>
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<tr>
<td>Health Sciences - Pre-Clinical Allied Health Track</td>
<td>BS</td>
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<tr>
<td>Health Services Administration</td>
<td>BS, MS</td>
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<tr>
<td>Legal Studies</td>
<td>BA, BS</td>
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<tr>
<td>Nursing</td>
<td>BSN, MSN, PhD</td>
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<tr>
<td>Public Administration</td>
<td>BA, BS, MPA, MNM</td>
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<td>Public Affairs</td>
<td>PhD</td>
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<td>Physical Therapy</td>
<td>MS</td>
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<tr>
<td>Radiologic Sciences</td>
<td>BS</td>
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<tr>
<td>Social Work</td>
<td>BSW, MSW</td>
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The Department of Communication Sciences and Disorders offers a program for those planning to go on to graduate clinical professional program. The mission of the Department is to provide quality undergraduate and graduate academic, administrative, and clinical instruction with an emphasis on educating future leaders of the health care system. The Department seeks to strengthen existing programs, as well as to identify and develop new programs that fulfill a documented need for health care resources and technology. Another goal is to foster the development of knowledge through research, publications, and scientific presentations. Finally, the Department seeks to provide continuing education for the health care community and consumer health education.

The programs in Cardiopulmonary Sciences, Health Information Management, and Radiologic Sciences require a minimum overall GPA of 2.5 for consideration for admission and the Athletic Training program requires a minimum overall GPA of 2.75. In addition, for admission a minimum grade of “C” (2.0) is required for prerequisite courses and required courses within the program. These programs are all accredited by their national professional associations and graduates are prepared to take the appropriate examination for certification.

Program in Cardiopulmonary Sciences
Director: Jeff Ludy; HPA2 210; 407-823-2214

The major in Cardiopulmonary Sciences (also known as respiratory care) leads to the Bachelor of Science Degree. In the professional curriculum, students study respiratory therapy skills, pharmacology, life support techniques, disease and patient assessment, and patient management. Upon completion of the undergraduate program, the baccalaureate prepared individual will possess basic patient care and advanced practice patient care skills and should be prepared to assume a future leadership role within the profession. Graduates will also be prepared to take the entry-level and advanced practice national examinations. These examinations will first lead to licensing by the State of Florida (CRT examination), and then to the advanced practice credential, Registered Respiratory Therapist (RRT examination).

The Cardiopulmonary Sciences program is accredited by the Committee on Accreditation for Respiratory Care in conjunction with CAHHEP of the American Medical Association. The cardiopulmonary sciences program is a limited access program and requires a separate application to the program submitted by February 1st of the year in which admission to the program is sought.

Degrees: Cardiopulmonary Sciences (BS)
Tracks: None
Minors: None
management of health information systems which collect, process, store, retrieve, and release health information and statistics, 3) assistance to administration, other health professionals, and medical staff in developing quality assurance programs by abstraction of medical data, preparation of statistical reports, and analysis of information, and 4) assistance in collection and analysis of data for public health services planning.

The curriculum of the Health Information Management program is approved by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). This is a limited access program and requires a separate application to the program by March 1 of the year in which admission is sought. Graduates of the Health Information Management program are eligible to take the AHIMA Registered Health Information Administration Certification exam. By successfully passing the exam, the graduate will be recognized as a Registered Health Information Administrator (RHIA).

Degrees: Health Information Management (BS)
Tracks: None
Minors: Health Information Management

Program in Health Sciences-Athletic Training
Director: K. Schellhase; HPA2 124; 407-823-3463

The Program in Athletic Training at the University of Central Florida is a track in the Program in Health Sciences. The athletic training track is a six semester program where students complete 12-15 credits per semester while engaged in clinical affiliations. The core of athletic training coursework emphasizes the competencies and proficiencies necessary for successful clinical practice in a variety of settings in which certified athletic trainers are presently employed. A significant and important aspect of the educational process is the series of clinical experiences that occur in a variety of settings under the direction of an approved clinical instructor and certified athletic trainer. These local affiliation sites include high schools, colleges, universities, rehabilitation clinics, and professional athletic organizations. Upon successful completion of the course of study, the graduate with a Bachelor of Science degree in Health Sciences - Athletic Training Track is eligible to take the National Athletic Trainer's Association Board of Certification (BOC) Exam. By successfully passing the exam, the student will be recognized as a certified athletic trainer (ATC). The Program in Athletic Training is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). This is a competitive program that requires a separate application process following acceptance into the University. Consent from the program director is required.

Degrees: Health Sciences (BS)
Tracks: Athletic Training
Minors: None

Program in Health Sciences-Pre-Clinical Allied Health Track
Director: T. Falen; HPA2 210; 407-823-2369

This program is a preparatory program for Graduate Level Clinical Disciplines for the student who wishes to seek admission to graduate level clinical programs such as physical therapy, occupational therapy and physician assistant programs. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health, or Health Services Administration.

Degrees: Health Sciences (BS)
Tracks: Generalist
Minors: Health Sciences

Program in Health Services Administration
Director: T. Falen; HPA2 210; 407-823-2369

The department offers a baccalaureate degree in Health Services Administration. The baccalaureate degree is designed for students who desire to study the business side of health care. The primary goal of the program in Health Services Administration is to prepare managers to direct a variety of health care organizations such as hospitals, HMO's, clinics and any other organization involved in the delivery or management of health care services. The undergraduate curriculum is consistent with the curricular requirements of the Association of University Programs of Health Administration, stressing administration, policy and planning skills. A diverse health care community offers students a variety of internship experiences as well as providing placement opportunities upon graduation. Faculty are actively engaged in research relating to management, conflict resolution, occupational stress, outcome assessment and integrated delivery mechanisms.

People within the health care industry with associate of science degrees in areas such as nursing, respiratory therapy, radiologic technologies, medical laboratory technology, dental hygiene, and others may find this program providing a migration path from the clinical side of the health care industry to the leadership side. Students without a background in the health care industry can build a solid understanding of the complexity of managing health services organizations.

Degrees: Health Services Administration (BS, MS)
Tracks: None
Minors: Health Services Administration, Health Sciences

Program in Radiologic Sciences
Director: T. J. Edwards III; HPA2 210; 407-823-2747

The University of Central Florida offers the only public accredited Bachelor of Science in Radiologic Sciences degree program in Florida. The Radiologic Sciences Program offers entry-level students the opportunity to specialize in conventional radiography and the advanced imaging modalities. Radiographers are integral members of the health care team dedicated to providing high quality patient care. Graduates are prepared to function as clinically competent radiographers and, with experience, advance to leadership positions in the profession.

The University of Central Florida also sponsors an A.S. to B.S. transfer program designed for ARRT certified Radiographers interested in combining their professional development with earning a baccalaureate degree in Radiologic Sciences. Didactic courses for the entry-level and the A.S. to B.S. transfer programs are offered in the classroom and on the internet. Additional information regarding the transfer program is provided in the “Articulated A.S. to B.S. Degree Programs” section of the catalog.

The primary role of radiographers is to perform medical imaging procedures for the diagnosis of disease and injury. The radiographer enjoys an interesting and challenging variety of examinations/procedures which may include conventional radiography, fluoroscopy, mammography, vascular imaging, computed tomography and magnetic resonance imaging. Employment opportunities are available in hospitals, imaging centers, and private physician offices. Career advancement opportunities include positions in advanced imaging
The virtues of public sector employment are numerous. First, the range of employment opportunities is extraordinary and includes a variety of management and staff positions in city and county management, environmental protection, homeland security, human resources, nonprofit management, urban planning, economic development, policy and administration, and emergency management, among others. Second, the salaries are generally highly competitive with private industry, despite common misconceptions to the contrary. Third, public sector employment provides people with the opportunity to “make a difference” for society and help individuals one at a time. Fourth, it provides a superior stability and continuity of career. Those seeking to work in or already employed in the nonprofit sector will find it booming as the intergovernmental system increasingly delegates the delivery of services to nonprofits.

The College of Health and Public Affairs

The College of Health and Public Affairs

The College of Health and Public Affairs

The Virtues of Public Sector Employment are Numerous. First, the range of employment opportunities is extraordinary and includes a variety of management and staff positions in city and county management, environmental protection, homeland security, human resources, nonprofit management, urban planning, economic development, policy and administration, and emergency management, among others. Second, the salaries are generally highly competitive with private industry, despite common misconceptions to the contrary. Third, public sector employment provides people with the opportunity to “make a difference” for society and help individuals one at a time. Fourth, it provides a superior stability and continuity of career. Those seeking to work in or already employed in the nonprofit sector will find it booming as the intergovernmental system increasingly delegates the delivery of services to nonprofits.

The Nursing curriculum leads to the Bachelor of Science in Nursing degree, the basis of professional nursing practice. The BSN graduate is prepared to provide comprehensive care in a variety of acute, community, and rehabilitative settings. Program emphasis includes clinical nursing practice, health promotion and maintenance, and preparation for assuming leadership roles. The baccalaureate curriculum provides the foundation for graduate study in nursing. Registered nurses licensed in Florida are eligible for admission into the RN to BSN Program at UCF. Each applicant is reviewed individually and guided to prevent repetition of previous coursework. RNs may submit applications during any semester. Contact the School of Nursing for specific information on the RN-BSN program. Courses are offered in Orlando, Cocoa, Daytona Beach, and Leesburg campuses. The RN-BSN is also offered via the Internet.

The goal of the MSN program is to prepare advanced practice nurses to assume leadership positions in a variety of healthcare settings. Majors include Nurse Practitioner (Family, Adult, or Pediatric), Clinical Nurse Specialist, Clinical Nurse Leader, Nurse Educator, and Nursing Leadership and Management. Minimum hours for the degree are 36-45 hours of graduate work depending on the major. Either a thesis or research scholarly project is required. Student must be a licensed Registered Nurse.

A certificate in Nursing and Health Professional Education is available for students with a baccalaureate degree in nursing or a related health field.

The nurse practitioner (NP) program prepares nurses for advanced practice nursing positions in healthcare settings. Majors include Adult-Gerontological, Family, Psychiatric-Mental Health, Women’s Health, and Nurse Practitioner. Clinical practice in specialties is required. Contact the School of Nursing for specific information on the NP program.

The School of Social Work offers a professional degree program that is nationally accredited by the Council on Social Work Education. Its primary focus is the preparation of students for entry-level professional social work practice within diverse human service organizations such as hospitals, schools, correctional settings, public welfare departments, child placement organizations, community centers, and counseling agencies. The Social Work program is a limited access program that requires separate application to the School of Social Work.

The School of Social Work also offers the Certificates of Aging Studies (open to all majors), Children’s Services (open to SW majors only) and Addictions (open to SW majors only). The Aging Studies Certificate is an interdisciplinary program that helps prepare students to meet the needs of the elderly citizens of Central Florida. The program may be of particular interest to students who are majoring in health sciences, psychology, social work, nursing or sociology. Other students, such as those majoring in business, physical education, or art education may also find the certificate valuable. The Certificate in Children’s Services (open to Social Work majors only) prepares social work students to respond to the special needs of children and families. This certificate is of special interest to students planning to work in the field of child welfare or related areas. The Addictions Certificate (open to Social Work majors only) prepares students to work in the field of adult and adolescent substance abuse.

The Department of Public Administration offers a variety of degrees, minors, and a certificate to provide students with a broad understanding of the public management or nonprofit management. The public sector is vast and includes over 20 million employees, and the nonprofit sector has expanded to nearly half that number. The public sector employs people with the opportunity to “make a difference” for society and help individuals one at a time. Fourth, it provides a superior stability and continuity of career. Those seeking to work in or already employed in the nonprofit sector will find it booming as the intergovernmental system increasingly delegates the delivery of services to nonprofits.
College of Optics and Photonics: CREOL and FPCE
Director: Eric W. Van Stryland; 407-823-6800; E-mail: info@creol.ucf.edu; Website: http://www.creol.ucf.edu

The College of Optics and Photonics: CREOL and FPCE is a graduate school for research and education in optics, lasers, and photonics. It was established in 1986 to provide the highest quality education in optics and lasers, conduct scholarly fundamental and applied research, and aid in the development of Florida’s high technology-based industries.

CREOL (Center for Research and Education in Optics and Lasers) and FPCE (the Florida Photonics Center of Excellence) are the research arms of the College of Optics and Photonics. The School offers Masters (MS) and Doctoral (PH.D.) Degrees in Optics. The College of Optics and Photonics/CREOL has become an internationally recognized institute with 25 faculty members, 30 Ph.D. level research scientists, and 137 graduate students. The faculty are recognized as being among the best in the optics/laser/photonics field, with two thirds holding the rank of Fellow in major national and international professional societies. It is housed in a state-of-the-art 83,000-square-foot building dedicated to optics, photonics, and laser education and research on the main campus. This facility houses ninety research laboratories equipped with over $35 million in state-of-the-art equipment.

The research activities span the spectrum from basic science to prototype development. The faculty and research staff pursue joint research projects with industry, academia, and government laboratories, and are always seeking new opportunities to work with industry to expose students to the industrial environment and to help in technology transfer. Current research areas include: nanophotonics, biophotonics, imaging science, plasmonics, high-speed photonics networks and telecommunications, solid state laser development, nonlinear optics, laser induced damage, quantum-well optoelectronics, photonic information processing, infrared systems, 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, liquid crystal devices, laser materials processing, and light matter interaction. These programs are supported by over $17 million of research grants and contracts annually from numerous federal and state agencies and industry.

Graduate assistantships, with stipends ranging from $18,000 to $27,500, are available to outstanding students pursuing graduate education in optics and photonics. Research training opportunities are also available to undergraduate students through the Research Experience for Undergraduates (REU) program sponsored by the National Science Foundation, and other research grants and contracts.

The College has a very active Industrial Affiliates Program to facilitate strong cooperative relations with industry. The program provides industry with benefits of cutting-edge research and access to the expertise and facilities of the College. Faculty members also team with Florida-based small businesses to help them compete for federally sponsored Small Business Innovative Research (SBIR) programs. The program provides industry with effective ways to contribute to and sustain the research and teaching of optics and photonics.
College of Sciences

Interim Dean: Peter Panousis; CAS 190; 407-823-1997
Associate Dean: Michael Johnson; CAS 190; 407-823-3491
Associate Dean: Jack McGuire; CAS 190; 407-823-3684
Associate Dean: Haven Sweet; CAS 190; 407-823-2992

The College of Sciences, one of the largest academic units at the university, educates and conducts research in physical, life, social, and behavioral sciences. The College houses the departments of Anthropology, Biology, Chemistry, Mathematics, Physics, Political Science, Psychology, Sociology, and Statistics and Actuarial Science; the Nicholson School of Communication; and the National Center for Forensic Science.

The College is responsible for all programs in the sciences and the departments collectively offer 35 baccalaureate, graduate, and preprofessional programs. For additional information concerning graduate programs, please refer to the Graduate Catalog:
http://graduate.ucf.edu/currentGradCatalog/

Undergraduates enrolled in the College must fulfill all University degree requirements, including those for general education, as well as the requirements of the degree program. To be certified for graduation, a student must achieve a GPA of 2.0 in the courses of his or her major and/or minor. Some departments also require a minimum grade in specified courses. Consult the program requirements and a departmental advisor for specific policies. For programs with a foreign language graduation requirement, American Sign Language is not considered a foreign language and will not satisfy the requirement.

A student whose written or oral communication in any course is deemed unsatisfactory may be referred to the Office of the Dean by the instructor. Additional coursework or an individual study program, consistent with the needs of the student, may be assigned and must be completed before the degree is granted.

Preprofessional Programs

Prelaw Program

Prelaw Advisor: Roger Handberg; CNH 414; 407-823-2608

There is no preferred major for pre-law. Law schools accept superior students with a good liberal arts or science background, regardless of major field. The quality of undergraduate education for the legal profession, according to the Association of American Law Schools, is grounded in three basic skills and insights: comprehension and expression in written and oral languages, critical understanding of the human institutions and values with which the law deals, and the creative power of thinking. Law schools require that applicants take the Law School Admission Test (LSAT). General information pertaining to programs of study, the LSAT, careers, and law schools can be obtained from the Pre-Law Advisor. Advisement about the major is provided by the department offering the major.

Prehealth Professions

The College of Sciences offers many of the courses that fulfill admission requirements for professional schools in the Health Sciences. Refer to the Biology Preprofessional section for additional information.

Advisement

Office of Academic Support and Information Services (OASIS)
http://www.cas.ucf.edu/oasis
E-Mail: oasisis@mail.ucf.edu
Director: Lee Anne Kirkpatrick
CNH 202; 407-823-2492

The Office of Academic Support and Information Services (OASIS) is the primary office for undergraduate academic assistance for both the College of Arts and Humanities as well as the College of Sciences. OASIS assists students with degree requirements, policies, and procedures as well as coordinates orientation, registration, readmission for suspended students, and graduation. Questions concerning University and College academic policies and requirements should be directed to OASIS. Questions concerning the requirements within a major or minor should be directed to the department offering the program. The student should contact the department early in his/her academic career. For additional information about OASIS, please visit our website.

Programs and Degrees

Title
Actuarial Science
Advising/Public Relations
Anthropology
Astronomy
Biology
Biomolecular Sciences
Chemistry
Communication
Forensic Science
Interpersonal and Organizational Communication
Journalism
Magazine Journalism
Mathematics
Mass Communication
Physics
Political Science
Psychology
Radio/Television
Sociology
Statistics

Degree
BS
BA, MA, Minor
Minor
Minor
BS, MS, PhD, Minor
PhD
BA
BA, MA, Minor
BA, BS, MA, MS, PhD, Minor
BA
BS, MS, PhD, Minor
Minor
BS, MS, PhD, Minor
Minor
BS, MS, PhD, Minor
Minor
BS, MS, PhD, Minor

Departments and Programs

Anthropology: Department
http://www.cas.ucf.edu/soc_anthro/
E-mail: anthropology@ucf.edu
Interim Chair: A. Chase;
PH 403; 407-823-2227


The Department offers a Bachelor of Arts in Anthropology, and provides supporting courses for Forensic Science. Students should consult with their departmental advisor early in their academic careers.

Degrees: Anthropology (BA)

Tracks: None

Minors: Anthropology, Anthropology in Multicultural Studies

Biology: Department
http://www.cas.ucf.edu/biology/
E-mail: biology@ucf.edu

Chair: David Borst; BL 301;
407-823-2141

Faculty: Bayer, Borst, Calestani, Fauth, Fedorka, Harris, Hoffman, Jenkins, Logiudice, Morrison-Sheltar, Nadeau, Noss, Osborne, Parkinson, Quigley, Quintana-Ascencio, Roth, Shtlar, Soter-Esteva, Stout, Sweet, Thomas, Vajravelu, von Kalm, Walters, Waterman, Weishampel, Worth.

Professors Emeritus: Ehnhart, Ellis, Kuhn, Koevenig, Snelson, and Taylor.

The Department of Biology offers a Bachelor of Science in Biology, a Minor in Biology, the Master of Science in Biology, a graduate Certificate in Conservation Biology, and a Ph.D. in Conservative Biology, and participates in an interdisciplinary Ph.D. program in Molecular Sciences. The core undergraduate curriculum provides a background in the chemical, mathematical, and physical sciences, as well as broad preparation in the biological sciences. This diverse background opens career opportunities for graduates in areas outside of their particular degree program. Graduates are well prepared to further their education in professional or graduate schools. Selection of electives, in consultation with a faculty advisor, permits emphasis on a subspecialty. Careful selection of restricted and unrestricted electives allows students to satisfy requirements for admission to professional or graduate school while completing their B.S. degree in Biology. Research experience and exposure to specialized topics not taught through formal courses may be gained through independent study contracts.

Degrees: Biology (BS, MS, PhD)
The College of Sciences

Tracks: Biology Pre-professional (BS)
Minors: Biology

Chemistry: Department
http://www.cas.ucf.edu/chemistry
E-mail: chemsta@mail.ucf.edu
Chair: Kevin D. Belfield;
CH 117; 407-823-2246
Associate Chair and Undergraduate Coordinator: Cherie L. Geiger;
CH 325; 407-823-2135

The Department of Chemistry offers courses and programs leading to a Bachelor of Science in Chemistry, a Bachelor of Science in Forensic Science, a minor in Chemistry, a Master of Science in Industrial Chemistry, Master of Science in Forensic Science, and a Ph.D. in Chemistry. The department also participates in the Ph.D. in Biomolecular Science. The undergraduate degree program in chemistry is accredited by the American Chemical Society Committee on Professional Training. It prepares the graduate for career opportunities in the chemical or related industries, or in government laboratories. The program also prepares students for further study at the graduate level in chemistry or in a related area such as materials science, pharmacology, or toxicology. With an appropriate choice of electives it also constitutes excellent preparation for the professional schools of dentistry, medicine, pharmacy, and veterinary medicine.

Degrees: Chemistry (BS, MS, PhD), Forensic Science (BS, MS)
Tracks: Chemistry, Forensic Analysis, Forensic Biochemistry
Minors: Chemistry

Communication: Nicholson School
http://www.nicholson.ucf.edu
E-mail: communication@ucf.edu
Director: M.A. Shaver;
COM 238; 407-823-2681
Faculty Emeriti: Meeske, O’Keefe, Taylor, Wycoff

The Nicholson School of Communication provides students with a balance of practical skills and philosophical aspects of communication. The programs prepare students to understand mass media as social institutions and train them for professional careers. The School is composed of four Divisions each of which offer a Bachelor of Arts degrees. The degrees are:

1. Advertising/Public Relations. Provides theory and practice in both advertising and public relations.
2. Interpersonal & Organizational Communication. Provides knowledge, theory, and skills needed to understand and predict human communicative behavior.
3. Journalism. Provides theory and skills needed to gain employment in newspapers, magazines, and similar forms of mass communication.

A Master of Arts degree in Communication is offered.

Facilities
The Radio-Television Division has fully-equipped audio and video production facilities, a complete multi-camera television studio, an online radio station, and laboratories for interactive multimedia. The Journalism Division has computer labs and a digital darkroom. The Advertising/Public Relations Division has a computer writing lab. The Interpersonal/ Organizational Communication Division has a presen- tational speaking classroom equipped for audio/video record/playback and computerized visual presentation. The Division also has a small group laboratory equipped with audio/video record/playback.

Degrees: Advertising/Public Relations (BA), Interpersonal & Organizational Communication (BA), Journalism (BA), Radio-Television (BA)
Specializations: Broadcast Journalism, Production, Broadcast Generalist, News Writing, Visual Communications, Editing
Minors: Interpersonal Communication, Magazine Journalism, Mass Communication, Organizational Communication

Mathematics: Department
http://math.ucf.edu
E-mail: math@mail.ucf.edu
Chair: Zuhair Nashed;
MAP 209; 407-823-0445
Faculty: Andrews, Anthony, Cannon, Caron, Choudhury, Clarke, Dandisyan, Dunlop-Pyle, Dutton, Griffiths, Han, Higgins, Ismail, Kassab, Katsevich, Kaup, Li, Martin, Mikusinski, Mohapatra, Nicholson, Ou, Pensky, Phillips, Qi, Reid, Ren, Richardson, Rodriguez, Rollins, Schober, Shvamoggi, Song, Sun, Tamasan, Tovbis, Vajravelu, Vartanian, Yong, Young, Zhao

The Department of Mathematics offers courses and programs which lead to a Bachelor of Science in Mathematics, a minor in Mathematics, a Master of Science in Mathematical Science and a Ph.D. in Mathematics. (See the Graduate Studies catalog for a description of the M.S. in Mathematical Science and the Ph.D. in Mathematics.) The programs in mathematics are designed to serve:

1. students who desire to pursue careers in mathematics after having completed a baccalaureate degree;
2. students who desire to continue their education in graduate and professional schools; and
3. students who need to use advanced mathematics as a tool in their speciality areas.

In order to serve such a wide variety of students, the courses and programs in the Department of Mathematics have developed along several lines. There are the usual service courses in pre-calculus and calculus along with strong programs in the upper division in the traditional areas of algebra and analysis and applied mathematics. The department does not award credit by examination for courses which are regularly taught. Students who feel they know the material in a given course are encouraged to take a more advanced class to fulfill their mathematics requirement. A limited number of student assistantships are available for qualified graduate students.

Degrees: Mathematics (BS, MS, PhD)
Tracks: Applied Mathematics, Computational Mathematics, Engineering/Physics, Mathematics, Pure Mathematics
Minors: Mathematics

Physics: Department
http://www.physics.ucf.edu
E-mail: physics@ucf.edu
Interim Chair: Ralph Llewellyn;
MAP 310; 407-823-2325
Associate Chair: Lee Chow;
MAP 315; 407-823-2333
Faculty: Bhattacharya, Bindell, Bos, Braunstein, Britt, Brueckner, Campins, Chemyak, Chow, Del Barco, Ethimiou, Fernandez, Heinrich, Johnson, Khondaker, Kokouline, Leuenberger, Llewellyn, Luo, Martin, Montgomery, Mucciolo, Neighbor, Peale, Roldan-Cuenya, Saha, Schelling, Schulze, Tonner, Winningham.
Faculty Emeritus: Brennen.
Visiting Faculty: Cooney, Dubey, Filtiayin, Ngwa, Zhmudsky.

The Department of Physics offers a multi-track program of study leading to the B.S. degree, giving students the flexibility to choose a suitable set of courses to prepare for their career goals. A common core of courses in theoretical and experimental physics will lead to a broad understanding of the general principles of physics. The different tracks allow students to specialize, applying problem-solving techniques in a certain area of interest; this also enhances their qualifications for employment in that area after graduation.

After graduation our students are prepared to enter advanced study in physics, engineering, medicine, environmental sciences, astronomy, and other related disciplines. They are also prepared to begin careers in positions are varied as engineering physics, computational physics, and physics education. Undergraduate physics majors benefit from small class sizes, and are encouraged to be involved in
individually designed senior projects working with a faculty advisor.

The Department’s research programs include optics and lasers, condensed matter physics, complex systems, biophysics, atomic and molecular physics, nanostructures, and space science. The Department of Physics also offers a Master of Science degree and a Doctor of Philosophy degree.

**Degrees:** Physics (BS, MS, PhD)

**Tracks:** General Physics, Materials Physics, Optics & Lasers, Computational Physics, Astronomy

**Minors:** Astronomy, Physics

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**Political Science: Department**

http://www.cas.ucf.edu/politicalscience

E-mail: politics@ucf.edu

Chair: R. Handberg;

CNH 415; 407-823-2608


The Department of Political Science seeks to:
1. Provide students with a broad background for careers in foreign and domestic public service and in the private sector where a knowledge of government and politics is necessary;
2. Provide students with a broad background in pre-law to facilitate their admission to law school;
3. Prepare students for teaching, research, and graduate study in Political Science;
4. Provide a broad background for careers in politics; and
5. Educate citizens and promote their active interest in public affairs.

Students should plan their major or minor in consultation with their departmental advisor according to their interests and career objectives.

Political Science courses are divided into three areas of specialization: American Politics and Policy; International Relations and Comparative Politics; and Political Theory. It is strongly recommended that majors planning to continue their education at the graduate level or to pursue a career in international fields acquire a working knowledge of a foreign language. The Department of Political Science participates in the following programs:

- Asian Studies: Contact Houman Sadri.
- Environmental Studies: Contact Dwight Kiel or Peter Jacques.
- European Studies: Contact Kerstin Hamann
- Global and International Studies: Contact Waltraud Q. Morales
- Latin American and Iberian Studies: Contact Waltraud Q. Morales or Bruce Wilson or Annabelle Conroy.
- Space Studies: Contact Roger Handberg
- Women’s Studies: Contact Terri S. Fine or Annabelle Conroy.

**Degrees:** Political Science (BA, MA)

**Tracks:** American Politics, International Relations, Comparative Politics, International Studies, Prelaw

**Minors:** Political Science, Political Science/Prelaw

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**Psychology: Department**

http://www.cas.ucf.edu/psychology

E-mail: psychology@ucf.edu

Chair: Dipboye;

PH 302B; 407-823-2216

Associate Chair: W. Wooten, PH 305B; 407-823-2216


*Faculty Emeritus:* Abbott, Burroughs, Rollins

The Undergraduate Psychology Program has two primary missions; to prepare students for graduate training in psychology or related fields, and to provide the skills needed for students to apply the concepts and methods of psychology in their work, their communities, and their lives.

Students may pursue either a BA or a BS degree in Psychology. The BS option has more science and math-related requirements as well as additional courses in psychology research and statistical methods. As such, it is best for students planning to pursue a graduate degree.

**Degrees:** Psychology (BA, BS, MA, MS, PhD)

**Tracks:** None

**Minors:** Psychology, Behavioral Forensics Certificate

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**Sociology: Department**

http://www.cas.ucf.edu/soc.anthro

Chair: J. Corzine;

PH 403B; 407-823-2227

Associate Chair: D. Gay

Faculty: Bradatan, Campbell, Cook, Corzine, Dees, Dietz, Dupras, Ford, Gay, Goldstein, Huff-Corzenie, Jasinski, Lynxwiler, Marshall, Morris, Mustaine, Rivera, Sikorska-Simmons, Wright, Zom

The Department offers a Bachelor of Arts in Sociology. Students should consult with their departmental advisor early in their academic careers.

**Degrees:** Sociology (BA, MA)

**Tracks:** Domestic Violence (MA)

**Minors:** Sociology

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**Statistics and Actuarial Science: Department**

http://www.cas.ucf.edu/statistics

Interim Chair: D. Nickerson;

CCII 206; 407-823-5528

Faculty: Carta, Cutchins, Gau, Han, Johnson, Ni, Pensky, Pepe, Ren, Richardson, J. Schott, S. Schott, Su, Uddin, Wang, You

The Department of Statistics and Actuarial Science offers courses and programs leading to a Bachelor of Science in Statistics, a Bachelor of Science in Actuarial Science, a minor in Statistics, and a Master of Science in Statistical Computing with tracks in Data Mining and Actuarial Science. (See the Graduate Studies catalog for a description of the M.S. in Statistical Computing.)

The undergraduate programs in statistics and actuarial science are designed to serve 1) students who desire to pursue careers in statistics or actuarial science after having completed a baccalaureate degree; 2) students who desire to continue their education in graduate or professional schools; and 3) students who use statistics or actuarial science as tools in their specialty areas.

In order to serve such a wide variety of students, the courses and programs in the Department of Statistics and Actuarial Science have been developed along several lines. There are the usual service courses in elementary statistics along with strong programs in the upper division in statistical methods, statistical theory, statistical computing, and actuarial science. A limited number of assistantships are available for qualified graduate and undergraduate students.

**Degrees:** Statistics (BS, MS), Actuarial Science (BS, MS Track)

**Tracks:** None

**Minors:** Statistics
Rosen College of Hospitality Management

Dean: Abraham Pizam; 9907 Universal Boulevard, Suite 231-H
Orlando, Florida 32819; 407-903-8000

Associate Dean: Stephen LeBruto; 9907 Universal Boulevard, Suite 231-A; 407-903-8015

Faculty: Ashley, Breiter, Chen, Cross, Dickson, DiPietro, Fisher, Fjelstul, Hara, Iskat, Juge, Jung, Kaufman, Krebs, Logan, Marshall, Milman, Muller, Murphy, Naipaul, Okumus, Rompf, Severt, Tesone, Upchurch, Wang

Website: www.hospitality.ucf.edu

The hospitality industry represents the second largest employer in the United States and is the major part of the rapidly growing services sector of the economy. Because of its unique location in the premier tourist destination in the world, the Rosen College of Hospitality Management is ideally situated to prepare students for managerial careers in the hospitality industry. Whether the student is interested in entering lodging, food service, travel and tourism, financial management and technology, theme parks, vacation ownership resorts, golf management, or event management, the Orlando and Central Florida area offers extraordinary opportunities. It is the destination for over 45 million tourists each year, has over 400 hotels with 120,000 rooms, 5,000 restaurants, and 75 theme parks and attractions. The industry employs a half million people in the State of Florida and many are in the Central Florida area.

The educational mission of the College is to provide students with the knowledge, skills, and ability to identify opportunities and challenges in the hospitality industry, and to apply creative decision techniques in responding to those opportunities.

The curriculum is designed to prepare students for a broad range of managerial roles across the hospitality industry. It provides both academic preparation and practical experiences that students will need to enter and succeed in a hospitality management career. Students also have the opportunity to experience the work world in hospitality through an internship requirement and through extensive contact with leading hospitality managers in the Central Florida area.

The Center for Multi-Unit Restaurant Management and the Darden Eminent Scholar Chair in Restaurant Management provide a unique focus in the curriculum on corporate restaurant management. Students have access through the Center to leading restaurant industry executives. This academic unit is an integral part of the Rosen College of Hospitality Management.

Distinctive Benefits

- A state-of-the-art facility located in the heart of the tourism district in Orlando, Florida with on-campus housing.
- Access to the many hospitality organizations that serve one of the premier tourist destinations in the world.
- Extensive ties with the top leadership of the Orlando area hospitality industry.
- A large number of scholarships made available through the generous support of the industry.
- A faculty committed to continuously improving their knowledge of the hospitality industry as well as their ability to teach that knowledge to their students.
- A required work experience that provides students with practical experiences in the hospitality industry.
- Outstanding opportunities for internships.
- A modern food production laboratory and teaching restaurant completely equipped to provide students with experience in food preparation.

The College also houses the Linda Chapin Eminent Scholar Chair in Tourism Management and the Dick Pope Sr. Institute for Tourism Studies which was created and funded by the travel and tourism industry in Central Florida. The Institute conducts research and gathers information that helps the entire Orlando area hospitality industry better understand and serve its many guests from around the world.

Degrees: Event Management (BS), Hospitality Management (BS), Restaurant and Foodservice Management (BS)

Minor: Hospitality Management

Tracks: Event Management; Vacation Ownership Resort Management; Theme Park and Attraction Management; Tourism Management; Lodging Management; Hospitality Financial Management and Technology; Golf Management
The Office of Undergraduate Studies

The Office of Undergraduate Studies supports the colleges in their curricular planning, collaborates with faculty curricular oversight, works with faculty and administrators to assure the strength of university wide programs such as general education, and advocates for an undergraduate education that offers an outstanding learning experience to UCF students. Interdisciplinary academic programs such as the Bachelor of Applied Sciences and the Liberal Studies Program are part of this office as is the Office of Academic Services. Also reporting to the Dean of Undergraduate studies are the Division of Continuing Education, the Office of Experiential Learning, the Faculty Center for Teaching and Learning, the Office of McNair and RAMP Scholars Programs, the Office of Undergraduate Research, and the Coordinator of Special Undergraduate Programs. The Dean serves as the final appeal for all undergraduate academic appeals.

Liberal & Interdisciplinary Studies

Classroom Bldg I, Suite 302

E-mail: ls@mail.ucf.edu

Director: Elliot Vittes; 407-823-0114

Program Contact: The Liberal Studies Advising Team

Academic Advisors: Karen Cox, Lee Logan, Linda Skrotsky, Sandra Tabert;

The Liberal Studies Program offers students the opportunity to pursue interdisciplinary studies through individually planned programs of study that include twelve different areas plus minor degree programs. The degree includes seven different tracks: Liberal Studies, Liberal Arts, Computer Information Technology, Environmental Studies, Nanoscience & Nanotechnology, Articulated A.S. to B.S., and Women’s Studies.

Degrees: Liberal Studies (BA, BS, MA, MS), Social Sciences BS

Tracks: Liberal Studies, Liberal Arts, Environmental Studies, Women’s Studies, Computer Information Technology, Nanoscience & Nanotechnology, Articulated A.S. to B.S.

Minors: Environmental Studies, Social Sciences Interdisciplinary

Certificates: Cultural Tourism

Social Sciences: Program

Classroom Bldg I, Suite 302

Contact Program: Liberal Studies Advising, 407-823-0144

The Social Sciences program offers students an opportunity to become acquainted with the various fields of the Social Sciences and to better understand the relationships between those fields. Satisfactory completion of the program leads to the Bachelor of Science degree with a major in Social Sciences.

Degrees: Social Sciences (BS)

Tracks: None

Minors: Social Sciences-Interdisciplinary
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<tr>
<th>UCF DEGREE PROGRAMS</th>
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<tbody>
<tr>
<td>Accounting</td>
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<td>Actuarial Science</td>
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<td>Advertising/Public Relations</td>
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<td>Aerospace Engineering</td>
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<td>Animation</td>
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<td>Anthropology</td>
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<tr>
<td>Applied Science (BAS) A.S. to B.S. Track</td>
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<tr>
<td>Art (BA, BFA)</td>
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<td>Art - Animation Track</td>
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<td>Art - History Track</td>
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<td>Art - Studio Track</td>
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<td>Art Education</td>
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<tr>
<td>Biology</td>
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<tr>
<td>Biology - Preprofessional Concentration</td>
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<td>Cardiopulmonary Sciences</td>
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<td>Chemistry</td>
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<tr>
<td>Civil Engineering</td>
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<td>Civil Engineering - Construction Engineering Concentration</td>
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<td>Communicative Disorders</td>
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<td>Computer Engineering</td>
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<td>Computer Engineering - Software Engineering Concentration</td>
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<tr>
<td>Computer Science</td>
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<td>Criminal Justice</td>
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<tr>
<td>Criminal Justice - A.S. to B.S. Track</td>
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<td>Digital Media</td>
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<td>Early Childhood Education</td>
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<tr>
<td>Economics (B.A. &amp; B.S.B.A.)</td>
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<tr>
<td>Economics - Accelerated Undergraduate-Graduate Program</td>
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<tr>
<td>Electrical Engineering</td>
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<td>Electrical Engineering - Microelectronics Concentration</td>
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<td>Electrical Engineering - Wireless Communication Concentration</td>
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<td>Electrical Engineering Technology - Computer Systems Concentration</td>
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<td>Electrical Engineering Technology - Electrical Systems Concentration</td>
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<tr>
<td>Electrical Engineering Technology - A.S. to B.S.E.E.T. Track</td>
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<tr>
<td>Electrical Engineering Technology - Photonics Track (B.S.E.E.T.)</td>
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<td>Elementary Education</td>
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<tr>
<td>Engineering Technology - Design Concentration</td>
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<td>Engineering Technology - Operations Concentration</td>
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<td>Engineering Technology - Space Systems Concentration</td>
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<tr>
<td>English - Creative Writing</td>
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<td>English - Literature</td>
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<td>English - Technical Writing</td>
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<td>English Language Arts Education</td>
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<td>Environmental Engineering</td>
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<td>Event Management</td>
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<td>Exceptional Student Education</td>
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<td>Film - B.F.A.</td>
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<td>Film - Cinema Studies Track</td>
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<td>Film - World Cinema Track</td>
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<td>Finance</td>
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<td>Foreign Language Education - French</td>
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<td>Foreign Language Education - Spanish</td>
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<tr>
<td>Forensic Science - Analysis Track</td>
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<td>Forensic Science - Biochemistry Track</td>
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<td>French</td>
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<tr>
<td>General Business</td>
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<td>General Business - A.S. to B.S. Track</td>
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<td>Health Information Management</td>
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<td>Health Sciences - Athletic Training Track</td>
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<td>Health Sciences - Generalist Track</td>
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<td>Health Services Administration</td>
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<td>History</td>
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<td>History - Accelerated Undergraduate-Graduate Program</td>
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<td>Hospitality Management</td>
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<tr>
<td>Hospitality Management A.S. to B.S. Track</td>
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<tr>
<td>Humanities</td>
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<td>Humanities - Popular Culture Track</td>
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<td>Religious Studies</td>
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<tr>
<td>Industrial Engineering</td>
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<td>Informational Systems Technology - A.S. to B.S. Track</td>
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<td>Information Systems Technology</td>
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<td>Information Technology</td>
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<td>Interpersonal Communication</td>
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<td>Journalism</td>
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<td>Legal Studies</td>
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<td>Liberal Studies</td>
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<tr>
<td>Liberal Studies - Computer Information Technology Track</td>
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<tr>
<td>Liberal Studies - Environmental Studies Track</td>
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<td>Liberal Studies - Liberal Arts Track</td>
</tr>
<tr>
<td>Liberal Studies - Nanoscience &amp; Nanotechnology Track</td>
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<tr>
<td>Liberal Studies - Women's Studies Track</td>
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<tr>
<td>Liberal Studies - Accelerated Undergraduate-Graduate Program</td>
</tr>
<tr>
<td>Liberal Studies - A.S. to B.S. Track</td>
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<td>Management</td>
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<td>Management Information Systems</td>
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<tr>
<td>Marketing</td>
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<tr>
<td>Mathematics - Applied Track</td>
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<tr>
<td>Mathematics - Computational Track</td>
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<tr>
<td>Mathematics - Engineering/Physics Track</td>
</tr>
<tr>
<td>Mathematics - Pure Track</td>
</tr>
<tr>
<td>Mathematics Education</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>Medical Laboratory Sciences</td>
</tr>
<tr>
<td>Modern Language Combination</td>
</tr>
<tr>
<td>Molecular Biology and Microbiology</td>
</tr>
<tr>
<td>Music</td>
</tr>
<tr>
<td>Music Education</td>
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<td>Music Performance</td>
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<td>Nursing</td>
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<td>Nursing - R.N. to B.S.N. Track</td>
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<td>Nursing - R.N. to M.S.N. Track</td>
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<tr>
<td>Nursing Accelerated Second Degree B.S.N. Option</td>
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<tr>
<td>Nursing - A.S. to B.S.N. Track</td>
</tr>
<tr>
<td>Organizational Communication</td>
</tr>
<tr>
<td>Philosophy</td>
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<td>Photography</td>
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<td>Philosophy, Religion and Popular Culture</td>
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<td>Physical Education</td>
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<tr>
<td>Physics</td>
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<tr>
<td>Political Science</td>
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<tr>
<td>Political Science - International Studies Track</td>
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<tr>
<td>Political Science - Prelaw Track</td>
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<tr>
<td>Psychology (B.A. &amp; B.S.)</td>
</tr>
<tr>
<td>Public Administration</td>
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<td>Radio - Television</td>
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<td>Radiologic Sciences</td>
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<td>Real Estate</td>
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<td>Religious Studies</td>
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<td>Spanish</td>
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<td>Sports and Fitness</td>
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<tr>
<td>Statistics</td>
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<tr>
<td>Technical Education and Industry Training Theatre (B.A. &amp; B.F.A.)</td>
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<td>Theatre - Musical Theatre Track</td>
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ACCOUNTING (B.S.B.A.)

College of Business Administration, BA2 101, 407-823-2184

http://www.bus.ucf.edu

Admission Requirements

- Completion of the General Education program at UCF, a Florida Public Community College, or a Florida Public University
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program  (min 36 hrs)
   A. Communication Foundations  9 hrs
      Required: SPC 1600
   B. Cultural and Historical Foundations  9 hrs
   C. Mathematical Foundations  3 hrs
      Select MAC 1105 College Algebra
      Select CGS 2100CC Computer Fund. for Bus
   D. Social Foundations  3 hrs
      Select ECO 2013 Macroeconomics
      or ECO 2023 Microeconomics
      Select one: PSY 2012, SYG 2000, ANT 2000
   E. Science Foundation  6 hrs

2. Common Program Prerequisites
   Must be completed with a "C" (2.0) or better
   ACG 2021 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2013 Macroeconomics
   ECO 2023 Microeconomics
   *ECO 3401 Quantitative Business Tools I
   CGS 2100CC Computer Fundamentals for Business
   *At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Common Body of Knowledge  (30 hrs)
   First or subsequent semester in the College of Business Administration:
   GEB 3031 Cornerstone (Required in 1st or 2nd semester)  6 hrs
   GEB 3355 Intro to International Business  3 hrs
   ECO 3411 Quantitative Business Tools II  3 hrs
   FIN 3403 Business Finance  3 hrs
   MAN 3025 Management of Organizations  3 hrs
   ISM 3011 Essentials of Management/Information Systems  3 hrs
   MAR 3023 Marketing  3 hrs
   BUL 3130 Legal and Ethical Environment of Business  3 hrs
   Last Semester:
   MAN 4720 Strategic Management  3 hrs

4. Special College and/or Departmental Requirements
   - Students must earn at least 60 credit hours of coursework outside of the College of Business (ECO 2013, 2023, 3401, and 3411) count towards this 60 hour requirement.
   - Students who change degree programs and select this major must adopt the most current catalog.
   - Students must have a "C" (2.0) or better in each common program prerequisites class.
   - A minimum grade of "C" (2.0) must be earned in each accounting, business law, and tax course completed. Principles of Managerial Accounting and Principles of Managerial Accounting are included under this rule.
   - Students in the Accounting major must maintain a 2.0 or higher cumulative Grade Point Average in all 3000 level or higher Accounting or Tax courses taken at UCF. Failure to maintain the required 2.0 Grade Point Average will result in the student being placed on lack of progress in the major. Lack of Progress in the major will continue until such time as the student's cumulative GPA in all Accounting and Tax courses reaches 2.0 or higher. If a student on lack of progress in the major fails to achieve a 2.0 minimum GPA in Accounting and Tax courses in a subsequent term, that student will be dropped as an accounting major. A student who is dropped may seek readmittance as an accounting major by submitting a letter indicating the reasons for student who is dropped may seek readmittance as an accounting major. A grade of "C" (1.75) or lower is not satisfactory for continuing in the major prerequisites class.
   - Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.

Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.

- All students must have credit for a course in each of the following areas:
  - English communication arts including written composition
  - Oral expression
  - Behavioral science such as psychology, anthropology, and sociology
  - Humanities
  - Political environment of business and society such as political science, public administration, and ethics

5. Foundation (Required)  (12 hrs)
   ACG 3121 Financial Accounting Concepts and Analysis  3 hrs
   ACG 3361 Intermediate Managerial Accounting  3 hrs
   ACG 4401C Accounting Information Systems  3 hrs
   TAX 4001 Taxation of Business Entities and Transactions  3 hrs

6. Area Specialization/Concentration Requirements  (9 hrs)
   Select one set from the following area specialization options:
   A. Public Accounting
      ACG 3501 Accounting and Auditing in the Public Sector  3 hrs
      ACG 4651 Auditing  3 hrs
   B. Managerial Accounting
      ACG 4671 Internal Auditing  3 hrs
      ACG 5346 Intermediate Managerial Accounting  3 hrs
      FIN 3414 Intermediate Corporate Finance  3 hrs
   C. Accounting Information Systems
      ACG 4671 Internal Auditing  3 hrs
      ACG 5405 Advanced Accounting Information Systems  3 hrs
      ISM 3253 MIS Techniques  3 hrs
   D. Governmental and Not-For-Profit Accounting
      ACG 3501 Accounting and Auditing in the Public Sector  3 hrs
      ACG 4671 Internal Auditing  3 hrs
      ACG 5517 Financial Accounting and Auditing for Governmental and Nonprofit Organization  3 hrs
   E. General Accounting
      Select one additional financial reporting course:
      ACG 3141 Intermediate Financial Accounting or ACG 3501 Accounting and Auditing in the Public Sector  3 hrs
      ACG 4561 Auditing  3 hrs
      ACG 4671 Internal Auditing  3 hrs
   Select one additional accounting course from the Restricted Electives listed below.

7. Restricted Electives  (3 hrs)
   Students may choose among the following accounting and accounting-related business courses:
   ACG 3141 Intermediate Financial Accounting  3 hrs
   ACG 3501 Accounting and Auditing in the Public Sector  3 hrs
   ACG 4401C Accounting Information Systems  3 hrs
   ACG 4651 Auditing  3 hrs
   ACG 4671 Internal Auditing  3 hrs
   ACG 4932 Approved Special Topics Courses in Accounting  3 hrs
   ACG 4970H** Honors Thesis in Accounting  3 hrs
   TAX 4001 Taxation of Business Entities  3 hrs
   ACG 5346 Advanced Managerial Accounting  3 hrs
   ACG 5405 Advanced Accounting Information Systems  3 hrs
   ACG 5517 Governmental and Nonprofit Accounting  3 hrs
   BUL 3332 Advanced Business Law Topics  3 hrs
   FIN 3414 Intermediate Corporate Finance  3 hrs
   FIN 4453 Financial Models  3 hrs
   ISM 3253 MIS Techniques  3 hrs
   ISM 4252 Database Management Systems  3 hrs
   TAX 5015 Advanced Taxation Topics  3 hrs
   (HPC electives to be added for Governmental Specialization)
   **Enrollment restricted to students accepted into the Honors in the Major Program

8. Honors in the Major  (6 hrs)
   Eligibility: Requirements for admission to Honors in the Major are completion of at least 60 semester hours of college credits including at least 12 graded upper-division hours at UCF; at
A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

CPA Examination Requirements
Effective August 31, 1983, Florida Law states that to qualify to sit for the CPA exam, one must possess thirty (30) additional semester hours of credit beyond the minimum requirements for the baccalaureate degree. In addition to this overall educational requirement, the following specific criteria also apply:
- 36 hours in accounting beyond elementary, including coverage of financial accounting, auditing, cost and managerial accounting, and taxation.
- 39 hours in general business, including at least 6 hours of business laws.
Because of these increased educational requirements, no experience or additional course work is needed for certification. To satisfy the necessary coursework required by the law, the School of Accounting offers the Master of Science in Accounting (MSCA) and the Master of Science in Taxation (MST) degree programs. Please see the Graduate Catalog for program requirements. For additional information about the department, curriculum, faculty, events, and careers in accounting, students are invited to visit our department home page at: http://www.bus.ucf.edu/acc/

Community/Junior College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Microeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Professional courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

SUGGESTED FOUR YEAR PLAN OF STUDY - ACCOUNTING

Freshman 1st Term 15 hrs 2nd Term 15 hrs
ENC 1101* 3 ENC 1102* 3
Cult-Hist I* 3 Cult-Hist II* 3
MAC 1105* 3 Art/Music/Lit 3
Psy/Syg/Ant 3 GGS 2100CC* 3
Science 3 Science 3
*ACG 4904H Honors Seminar in Accounting 3 hrs
Additional 3 hrs

Sophomore 1st Term 15 hrs 2nd Term 15 hrs
ECO 2023* 3 ECO 2013* 3
ACG 2021* 3 ACG 2071* 3
SPC 1600 3 POS 2041 3
**Elective 3*** **Elective 3***
**Elective 3*** ECO 3401* 3
* "C" (2.0) or better grade required in each class
** Accounting majors must have a "C" (2.0) or better in each class in the major to include law and tax and a 2.0 GPA in major.

Junior 1st Term 15 hrs 2nd Term 15 hrs
GEB 3031 6 ECO 3411 3
*BUL 3310 3 GEB 3356 3
*ISM 3011 3 MAN 3025 3
*ACG 3131 3 **ACG 4401C 3
**ACG 3361 3
** Accounting majors must have a "C" (2.0) or better in each class to include law and tax and a 2.0 GPA in major.

Senior 1st Term 15 hrs 2nd Term 15 hrs
**TAX 4001 3 MAN 4720 3
ACG Specialization 3 **ACG Specialization 3
FIN 3403 3 **Elective 3
**ACG Specialization 3 **ACG Restricted Elective 3
MAR 3023 3 **Elective 3

***General electives as required to reach 120 semester hours.

ACTUARIAL SCIENCE (B.S.)

College of Sciences
Department of Statistics and Actuarial Science, CC II 212, 407-823-5562
http://www.cas.ucf.edu/statistics
E-mail: statistics@mail.ucf.edu
Nizam Uddin, 407-823-2692

Admission Requirements
Students must apply for admission to the Actuarial Science Concentration by March 15 of the Spring semester two years prior to expected graduation. Transfer students expecting to graduate in less than two years should apply immediately upon admission to UCF.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
1. UCF General Education Program (36 + 3 hrs)

Note: Certain courses must be selected in the GEP for the major which brings the GEP above 36

A. Communication Foundations
   - 9 hrs
B. Cultural and Historical Foundations
   - 7 hrs
C. Mathematical Foundations
   - 7 hrs
D. Social Foundations
   - 6 hrs
E. Science Foundations
   - 8 hrs

Select BSC 2010C
Select PHY 2053C

2. Common Program Prerequisites (14 hrs)

COP 3502C
EEO 2013
MAC 2311
MAC 2312
MAC 2313
STA 2023

Select an ANT, PSY or SYG listed course
Select ECO 2013
Select STA 2023

E. Science Foundations
   - 8 hrs

Select BSC 2010C
Select PHY 2053C

3. Core requirements (53 hrs)

ACG 2021
ACG 2071
FIN 3043
STA 2023
STA 4212
STA 4267
STA 4942
STA 4268
STA 4130
STA 4131
STA 4500
STA 3241
BSC 2011C

Select one course
   - 4 hrs

MAS 3106

Select a third science course and associated with lab
   - 4 hrs

BSC 2011C

C. Select three from among the following:
   - 9 hrs

STA 4041
STA 4163
STA 4164
STA 4676
STA 4675
STA 4187
STA 4593
STA 5139
STA 5456

4. Restricted Upper Division Electives
   - 6 hrs

Select from upper division or graduate statistics, actuarial science, or mathematics courses
Selected courses in business courses may be used only with prior approval by the Department of Statistics and Actuarial Science

5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each STA course.
- Computer competency met by COP 3502C.

6. Foreign Language Requirements (0-8 hrs)

- Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
- Graduation: none

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, credit by exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required

- 120 hrs

Related Programs: Mathematics, Mathematics Education, Statistics

Related Minors: Statistics, Mathematics

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- COP 3502C*: any COP programming language course.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- BSC 2011C*: any laboratory BSC, CHM, or PHY course.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer

Math test See catalog

Fall

ACG 2021
STA 2023
MAC 2313

Spring

ACG 2071
STA 4222

Fall

ACG 2071
STA 4222

Spring

ACG 2071
STA 4222

Freshman Year

Fall

Spring

Sophomore Year

Fall

Spring

Junior Year

Fall

Spring

UCF Degree Programs

109
### UCF Degree Programs

**ADVERTISING/PUBLIC RELATIONS (B.A.)**

**College of Sciences**
Nicholson School of Communication, COM 250 407-823-2829
http://www.cas.ucf.edu/communication
E-mail: ad-pr@ucf.edu

Contact: Bob Davis
Limited Access program.

**Admission Requirements**
- Students should apply to become Advertising/Public Relations majors only after completing all requirements for admission.
- Deadlines are:
  - October 1 to be admitted the next Spring term
  - February 1 to be admitted the next Summer term
  - July 1 to be admitted the next Fall term
- Admission is based on multiple factors, not strictly GPA.
- Attain an overall minimum 2.25 GPA based on a minimum of 45 credit hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off varies somewhat with the quality of applicants, but for previous acceptance periods, the minimum GPA did not drop below 3.3.
- Have acceptable keyboard skills.
- Receive a positive evaluation of other factors specified by the School.

**Degree Requirements**
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op credit can be used in the major with advisor’s approval.
- Students should consult with a departmental advisor.
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication.
- Of the 120 hours required for graduation, 80 hours must be taken outside of the Nicholson School of Communication.
- Of these 80 hours, 65 must be taken in the liberal arts (i.e. within the College of Arts & Humanities or the College of Sciences).
- To ensure completion within 120 hours and to comply with the 80 hour rule, no more than 40 of the 120 hours may be taken within the Nicholson School of Communication.
- Students electing to complete a minor must select the minor from outside the Nicholson School of Communication to remain below the 40 credit hour school maximum.
- A maximum of six credit hours of internship may be earned in one semester. A total of nine credit hours of internship may be earned within the 120 credit hour required for graduation.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

#### 1. UCF General Education Program (36 hrs)

**A. Communication Foundations**
- Select ENC 1101 & ENC 1102 6 hrs
- Select SPC 1600 or SPC 1016 3 hrs

**B. Cultural and Historical Foundations**
- Select STA 2014C 3 hrs
- Select STA 1402* req# 4 Res/Elect 3 hrs

**C. Mathematical Foundations**
- Select ENC 1101 (may substitute a higher level math) 3 hrs

**D. Social Foundations**
- Select STA 2014C 3 hrs

**E. Science Foundations**
- Select one course 6 hrs

**2. Common Program Prerequisites (0 hrs)**
- Select one course 6 hrs

**3. Core requirements (27 hrs)**
- STA 2014C Principles of Statistics GEP
- ADV 3000 Principles of Advertising 3 hrs
- ADV 4101 Advertising Copywriting 3 hrs
- COM 3110 Business and Prof Communication 3 hrs
- COM 3311 Communication Research Methods 3 hrs
- MMC 4254 AdPR Campaigns 3 hrs
- MMC 4300 Mass Communication Law 3 hrs
- PUR 3100 Writing for Public Relations 3 hrs
- PUR 4000 Public Relations 3 hrs
- Select one 3 hrs

**4. School Exit Requirements**
- To avoid delaying graduation, the student must request a review of requirements before registering for the last term.
- Achieve an overall “C” GPA (2.0) in required UCF Ad/PR courses. This GPA does not include electives.
- Computer Competency met by CGS 1060C, STA 1060C or departmental assessment.

**5. Foreign Language Requirements (0-8 hrs)**
- Admission: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

**6. External Restricted Electives (variable)**
- Select primarily from upper level courses, with school advisor’s approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

**7. University Minimum Exit Requirements**
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required** 120 hrs

**Related Programs:** Marketing
**Related Minors:** Business, Marketing, Psychology

**Transfer Notes:**
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Suggested Plan of Study:**
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

**Freshman Year**

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<tr>
<td>ENC 1101 Comp I</td>
<td>ENC 1102 Comp II</td>
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<tr>
<td>MGF 1108* reg #1C1-GEP</td>
<td>MGF 1108* reg #1C1-GEP</td>
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<td>Elective* Check restrictions</td>
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<td>SPN 1120* req # Lang/Elect</td>
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**Sophomore Year**

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<tr>
<td>SPC 1600 Fund of Technical Presentations</td>
<td>SPC 1600 Fund Oral Communication</td>
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<tr>
<td>SPC 1016 Fund of Technical Presentations</td>
<td>SPC 1016 Fund Oral Communication</td>
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AEROSPACE ENGINEERING (B.S.A.E.)
College of Engineering and Computer Science
Mechanical, Materials & Aerospace Engineering
Department,
ENGR 307, 407-823-2416; Fax 407-823-0208
http://www.mmae.ucf.edu
Undergraduate Advisor: Waheeha Ilasari

Admission Requirements:
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, Orientation, found elsewhere in this catalog.

1. UCF General Education Program for (36+2 hrs)

Engineering Students
The UCF General Education Program (GEP) is described in the section, General Education Program, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations
   9 hrs
   1. ENC 1101 & ENC 1102
   2. Prefer SPC 1016

B. Cultural and Historical Foundations
   9 hrs
   1. Select two courses from Historical Foundations
   2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120

C. Mathematical Foundations
   7 hrs
   1. Select MAC 2311/LPR (MAC 1144)
   2. Select STA 3023 (PR: MAC 2312)

D. Social Foundations
   6 hrs
   1. Take Prefer ECO 2013 or ECO 2023.

E. Science Foundations
   7 hrs
   1. Take Select PHY 2048/48L (PR: MAC 2311).
   2. ANT 2001, BSC 1005, BSC 1050, GLY 1050, GEO 1200, or MCB 1200

2. Common Program Prerequisites (CPP’s) (19 hrs)
   These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

   CHS 1440 Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute) 4 hrs
   MAC 2311 Calculus with Analytic Geometry I GEP 4 hrs
   MAC 2312 Calculus with Analytic Geometry II 4 hrs
   MAC 2313 Calculus with Analytic Geometry III 4 hrs
   MAP 2302 Differential Equations 3 hrs
   PHY 2048/48L Physics for Engineers & Scientists I GEP 4 hrs
   PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
   ENC 1101 Composition I GEP 3 hrs
   ENC 1102 Composition II GEP
   Humanities Courses GEP
   Social Science Courses GEP
   Humanities or Social Sciences GEP

3. Courses Required for the Major (56 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

   EGN 1006C Intro to the Engineering Profession 1 hr
   EGN 1111C Engineering Computer Graphics 2 hrs
   EGN 1007C Engineering Concepts & Methods 1 hr
   EGN 3310 Engineering Analysis - Statics 3 hrs
   EGN 3321 Engineering Analysis - Dynamics 3 hrs
   EGN 3343 Thermodynamics 3 hrs
   EMA 3706 Structure & Properties of Aerospace Materials 3 hrs
   EGN 3373 Principles of Electrical Engineering 3 hrs
   STA 3032 Probability & Statistics for Engineers GEP
   EAS 3010 Fundamentals of Aerospace Flight 3 hrs
   EAS 3101 Fundamentals of Aerodynamics 3 hrs
   EAS 3800C Aerospace Engineering Measurements 2 hrs
   EAS 3810C Design of Aerospace Experiments 2 hrs
   EAS 4105 Flight Mechanics 3 hrs
   EAS 4134 High-Speed Aerodynamics 3 hrs
   EAS 4200 Flight Structures 3 hrs
   EAS 3530 Space Systems Concepts or
   EAS 4400 Spacecraft Attitude Dynamics or
   EAS 4505 Orbital Mechanics 3 hrs
   EAS 4300 Aerothermodynamics-Propulsion Sys 3 hrs
   EML 3034C Modeling Methods in MMAE 3 hrs
   EML 4312C Feedback Control 3 hrs
   EMA 3601 Solid Mechanics 3 hrs
   EAS 4210C Space Structural Design 3 hrs

4. Approved Technical Electives (9 hrs)
   Technical electives are available in the BSAE program to address specific student interests in a variety of technical areas. Students must consult with their assigned academic advisor for a list of the approved technical electives and the semesters when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)
   EGN 4412C Interdisciplinary Design I or
   EAS 4700C Aerospace Design I 3 hrs
   EGN 4413C Interdisciplinary Design II or
   EAS 4710C Aerospace Design II 3 hrs
   CEC encourages all engineering students to take the Fundamentals Exam during their Senior year.

6. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation:
none

7. University Minimum Graduation Requirements
   A. A 2.0 UCF GPA.
   B. 60 semester hours earned after any CLEP award.
   C. 48 semester hours of upper division credit completed.
   D. 30 of the last 36 hours of course work must be completed in residency at UCF.
   E. 25% of course work must be completed in residency at UCF.
   F. A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
   G. Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Mechanical Engineering.

Transfer Notes:
A. Courses taken from Community Colleges do not substitute for Upper Division Courses.
B. Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.
C. EGN 1006C and EGN 1007C are required courses for incoming
freshman students only. The two credit hours for these courses may be substituted by an approved Aerospace Engineering technical elective for transfer students.

### Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

### Aerospace Engineering

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Name</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>128 semester hours required</td>
<td></td>
</tr>
<tr>
<td><strong>FIRST YEAR</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td><em>ENC 1101 English Comp I</em></td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>*CHS 1440 Chem for Eng or CHM 2045C w/lab</td>
<td>General Chemistry</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>MAC 2311 Calculus I</td>
<td>Calculus I</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>EGN 1008C Intro to Eng Prof</td>
<td>Introduction to Engineering</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>EGN 1111C Eng Comp Graphics</td>
<td>Engineering Computer Graphics</td>
<td>2</td>
</tr>
<tr>
<td>Summer</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAC 2313 Calculus III</td>
<td>Calculus III</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>EMA 3706 Struct &amp; Prop of Aerospace Mat'l</td>
<td>Structural and Properties of Aerospace Materials</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>*Social Foundations</td>
<td>Social Foundations</td>
<td>3</td>
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<tr>
<td><strong>SECOND YEAR</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>*Historical Foundations</td>
<td>History</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>*MAP 2302 Diff Equations</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>*PHY 2049 Phys Eng II w/lab</td>
<td>Physics for Engineers II</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>EGN 3310 Eng Anal - Statics</td>
<td>Engineering Analysis - Statics</td>
<td>3</td>
</tr>
<tr>
<td>Summer</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>*ECO 2013 or 2023 Macro or Micro</td>
<td>Microeconomics</td>
<td>3</td>
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<tr>
<td></td>
<td>* Historical Foundations</td>
<td>Historical Foundations</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>STA 3032 Prob &amp; Stats/Engrs</td>
<td>Probability and Statistics/Engineering</td>
<td>3</td>
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<tr>
<td><strong>THIRD YEAR</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Fall</td>
<td>EML 3034C Model Meth's MMAE</td>
<td>Model Method's in Mechanical Materials Engineering</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EAS 3010 Fund of Aerospace Flight</td>
<td>Fundamentals of Aerospace Flight</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EAS 3800C Aeroeng Msr</td>
<td>Aerospace Engineering</td>
<td>2</td>
</tr>
<tr>
<td></td>
<td>Science Foundation</td>
<td>Foundation</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EAS 4200 Flight Structures</td>
<td>Flight Structures</td>
<td>3</td>
</tr>
<tr>
<td><strong>FOURTH YEAR</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall</td>
<td>EML 4312C Feedback Control</td>
<td>Feedback Control</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EAS 4105 Flight Mechanics</td>
<td>Flight Mechanics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EAS 4134 High-Spd Aerodyn</td>
<td>High-Speed Aerodynamics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EAS 4700C Aeroeng Design I</td>
<td>Aerospace Engineering Design I</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>EGN 4412C Interdisciplinary Design I</td>
<td>Interdisciplinary Design I</td>
<td>3</td>
</tr>
</tbody>
</table>

**Notes:**

- Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
- Students should view the MAAE website (www.mmae.ucf.edu) or consult with the MAAE Department in ENGR 307 for a list of approved technical electives and for the terms when specific courses of this type are to be offered. Students should check with MAAE Associate Chairman each semester to ensure they are making satisfactory progress toward their degree.
- The State University System requires most students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.
- Aerospace engineering students must earn at least 32 hours in residence at UCF.

**IMPORTANT NOTICE**

- Certain courses required for this major serve as key prerequisites or are offered in specific terms. Any deviation from the four-year plan should be discussed with an academic advisor. Failure to take courses as listed may result in a delay in the date of your graduation.
- Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites. If you do not have a higher level programming language background you must take a course in this area prior to taking EML 3034C (“C” or FORTRAN recommended).
- If you are not ready to begin the calculus sequence upon entry to the Aerospace Engineering curriculum it is imperative that you meet with your advisor to plan a personalized program of study. Mathematics and physics are cornerstones of a quality engineering program and it is important for your academic career that you proceed accordingly.

### Integrated Accelerated BS/MS Degree Program

The Mechanical, Materials, and Aerospace Engineering Department offers the Accelerated BS/MS program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

### ANIMATION TRACK in ART

See Art - Animation Track

### ANTHROPOLOGY (B.A.)

**College of Sciences**

**Department of Sociology and Anthropology, PH 403, 407-823-2227, [http://www.cas.ucf.edu/soc_anthro](http://www.cas.ucf.edu/soc_anthro)**

**E-mail:** anthropology@ucf.edu

**Contact:** A. Chase, 407-823-2227

The Anthropology major results in broad holistic understanding of humans and the human condition, both past and present. Students study all subfields of Anthropology: Archaeology, Cultural Anthropology, Linguistics, and Physical Anthropology.

Students with sufficient course background may participate in ongoing archaeological excavations associated with the Maya culture in the Central American country of Belize.

**Admission Requirements:**

- **Degree Requirements**
  - UCF students who change degree programs and select this major must adopt the most current catalog.
  - Departmental Residency Requirement: at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Anthropology Department.
  - Students must maintain a grade of “C” (2.0) or better in all courses used for the major.
  - Co-op or internship credit cannot be used in the major without prior approval.
  - Students should consult with a departmental advisor.
  - Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

- **1. UCF General Education Program**
  - Communication Foundations
  - Cultural and Historical Foundations
  - Mathematical Foundations
  - Social Foundations
  - *Transfer Notes for possible substitutes*

- **2. Common Program Prerequisites**
  - **ANT 2000** General Anthropology
  - **ANT 2511** The Human Species
  - **ANT 3640** Language and Culture

- **3. Core Requirements: Lower Level**
  - **ANT 2100** Arch & the Rise of Human Cult
  - **ANT 2410** Cultural Anthropology

- **4. Core Requirements: Upper Level**
  - **ANT 3145** Archaeology of Complex Societies
  - **ANT 3640** Language and Culture
5. Area Study (3 hrs)
All students are required to take one of the following courses:
- ANT 2100: any ANT course. However, this course is a prerequisite and must be taken regardless.
- ANG 5467: Nutritional Anthropology (or ANG 5467)
- ANT 3158: Florida Anthropology
- ANT 3163: Mesoamerican Archaeology
- ANT 3164: Ancient Inca
- ANT 3165: Maya Archaeology
- ANT 3131: Indians of the SE US
- ANT 3311: Ethnology of North American Indians
- ANT 3313: Ethnology of North American Indians
- ANT 3314: Indians of the Northeast Woodlands
- ANT 3318: Indians of the Northwest Coast
- ANT 4320: Indians of the Southwest
- ANT 3319: The Anthropology of Diaspora
- ANT 3332: Peoples and Culture of Latin America
- ANT 3430: Caribbean Cultures
- ANT 3358: Life and Death in Ancient Egypt
- ANT 3363: Anthropology of Japan
- ANT 4144: Prehistory of North America
- ANT 4153: North American Archaeology
- ANT 4352: African Societies and Cultures
- ANT 4354: Postcolonial Africa
- ANT 4308: Gender Issues in Latin America

6. Restricted Electives (18 hrs)
Six other Anthropology courses must be taken to complete the major. These may include other area study courses (see 5. above) or any other Anthropology courses that may be offered (see below).
- ANT 4101: Archaeological Sciences
- ANT 3115: Ethnographic Method and Theory
- ANT 3142: Old World Prehistory
- ANT 4184: Mortuary Archaeology
- ANT 3212: Peoples of the World
- ANT 3241: Magic, Ritual, and Belief
- ANT 3245: Native American Religions
- ANT 3262: Rural Society
- ANT 3273: Law and Culture
- ANT 3302: Sex, Gender, and Culture
- ANT 3316: Black/Semiole Relationships
- ANT 4438: Anthropology of Tourism
- ANT 4467: Nutritional Anthropology (or ANG 5467)
- ANT 3541: Biobehavioral Anthropology
- ANT 3550: Primatology
- ANT 3701: Applied Anthropology
- ANT 4702: Culture, Power, and Development
- ANT 4802: Ethnographic Field Methods
- ANT 4180C: Seminar in Laboratory Analysis
- ANT 4266: Economic Anthropology
- ANT 4462: Medical Anthropology
- ANT 4516: Human Biological Diversity
- ANT 4521C: Forensic Anthropology
- ANT 4525C: Human Osteology
- ANT 4528C: Advanced Forensic Anthropology
- ANT 4824: Advanced Archaeological Field Work
- ANG 5165: Field Research in Maya Studies
- ANG 5166: Problems of Maya Archaeology
- ANG 5167: Maya Hieroglyphs
- ANG 5228: Maya Iconography

Departmental Exit Requirements
- A grade of "C" (2.0) or better in all courses used for the major
- Computer Competency met by ANT 2100
- Students will be required to take a standard exit exam.

8. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement.
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)
Select primarily from upper level courses, with departmental advisor's approval. These courses may be outside of the department.

10. University Minimum Exit Requirements
- A "C" (2.0) GPA in all work attempted (both UCF and overall)
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Sociology, Graduate Certificate in Maya Studies
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- ANT 2000: any ANT course. However, this course is a prerequisite and must be taken regardless.
- ANT 2511: any ANT course. However, ANT 2511 will need to be taken for the major.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year
- Ant 2000 General Anthro 3
- ANT 4034 History of Anthropological Thought 3hrs
- ANT 4586 Human Origins 3 hrs

Spring
- ANT 2100 Cult Anthro Anthro 3
- ANT 3142 Old World Prehistory 3
- ANT 4184 Mortuary Archaeology 3

Sophomore Year
- ANT 2000 General Anthro 3
- ANT 2511 The Human Species 3

Junior Year
- ANT 2511 The Human Species 3
- ANT 3142 Old World Prehistory 3
- ANT 4184 Mortuary Archaeology 3

Senior Year
- ANT 2511 The Human Species 3
- ANT 3142 Old World Prehistory 3

ART (B.F.A.)
College of Arts and Humanities
Art Department VAB 117, 407-823-2676,
http://www.art.ucf.edu/
E-mail: art@ucf.edu
J. Chavda, 823-2676
The BFA degree is recommended for studio art majors who plan to attend graduate school.

Note: Although the department maintains a small computer lab for student use, Graphic Design majors must have continual access to a laptop computer. Contact the department for the minimum hardware and software specifications.
UCF Degree Programs

Admission Requirements

- All junior level students in this program (except Graphic Design students) must satisfactorily complete the mandatory ART 3950 - Portfolio Review before enrolling in upper division ART courses. The Spring review takes place in the first week of March. The Fall review takes place in the first week of October.
- Graphic Design students must satisfactorily complete the mandatory Graphic Design Portfolio Review for admission to this restricted access program, to be admitted in the following Fall. The application deadline is April 1 for Fall admission.
- Students unable to satisfactorily complete either above requirement, ART 3950 – Portfolio Review or the Graphic Design Portfolio Review, may continue in the Art Department in the Art History track.
- Students may enter the BFA Program as early as the first semester of their Junior year. If they have a 3.0 overall average in ART courses, they are automatically accepted. Students who do not meet these requirements may petition the BFA committee for acceptance.
- "D" grades from other institutions do not meet departmental requirements.
- Note: Individual portfolio reviews are not possible due to the large number of applicants to the program.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these must be in an area of specialization.
- BFA students must maintain a 3.0 GPA in all ART courses.
- Co-op credit cannot be used in this major.
- Students should consult with a departmental advisor in their specialization.
- Courses designated in 1 (General Education Program) and 2 (General Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations
     - Select a course from group B.1
     - Select ARH 2050 3 hrs
     - Select ARH 2051 3 hrs
   - B. Cultural and Historical Foundations
     - Select one upper-division course in Art History, Humanities, and Social Science.
   - C. Mathematical Foundations
     - Prefer MGF 1106 (may substitute a higher level math)
     - Prefer STA 1060C
   - D. Social Foundations
     - Select three upper-division courses from the UCF Department of Social Science
   - E. Science Foundations
     - Select five upper-division courses from the UCF Department of Science

2. Common Program Prerequisites (18 hrs)
   - ART 2203C*: Design Fundamentals 2-D 3 hrs
   - ART 2203C*: Design Fundamentals 3-D 3 hrs
   - ART 2300C* Drawing Fundamentals I 3 hrs
   - ART 2301C* Drawing Fundamentals II 3 hrs
   - ARH 2050 History of Western Art I GEP
   - ARH 2051 History of Western Art II GEP
   - GRA 2101C* Intro to Computer Art 3 hrs
   - Any ART prefix, studio, or digital art courses at the 2000-4000 levels 3 hrs
   *See Transfer Notes for possible substitutes

3. Core Requirements (9 hrs)
   - ART 2820 Art as Interface 3 hrs
   - ARH 2500 Survey of Non-Western Art 3 hrs
   - Any ART prefix, studio, or digital art courses at the 2000-4000 levels 3 hrs
   - ART 3950 Portfolio Review 0 hrs

4. Restricted Electives (42 hrs)
   a. Specialization: (18 hrs)
     - Select six upper division courses from one area: (classes with an asterisk may be repeated for credit)
     - Ceramics (ART 3760C, ART 3764C, ART 4783C*)
     - Drawing (ART 3332C, ART 4320C*)
     - Drawing/Printmaking Combination (ART 3332C, ART 4320C*, ART 3433C, ART 4402C*)
     - Drawing/Illustration Combination (ART 3332C, GRA 3151C, ART 4320C*, GRA 4154C*)
   b. Elective in Art: 15 hrs
     - Select five Art courses; two of which may be lower division. Select from at least three of the following areas, excluding the area of specialization.
     - Animation, Ceramics, Drawing, Graphic Design, Illustration, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.
   c. Additional Electives 9 hrs
     - Select three upper-division Art History courses
     - Select one upper-division course in Art History, Humanities, and Social Science.
     - (A maximum of six hours of Independent Study, Practicum, and Internship are permitted).

5. Departmental Exit Requirements (3 hrs)
   - ART 4535 BFA Exhibits/Seminar required, except for Graphic Design specialization (BFA Exhibit Seminar is only offered during Spring Semester)
   - Achieve at least a "B" GPA (3.0) overall in courses within the major
   - Each senior is required to submit a portfolio of representative work in the student's specialization, for review and approval by faculty, during their last semester of matriculation toward the degree
   - Computer Competency met by STA 1060C or GRA 2101C

6. Foreign Language Requirements (0-8 hrs)
   - Admission: Met by graduation requirement
   - Graduation: Proficiency equivalent to one year of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)
   - Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Art History, Studio Art (BA), Art Education, Animation, Digital Media

Related Minors: Partners in Visual Art Education

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- GRA 2101C*: A student may substitute any three hour digital art course; however, GRA 2101C is a prerequisite for subsequent art courses and will need to be taken for the major.

Suggested Plan of Study:
- One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.
Freshman Year
Fall
ARH 2050 His of West Art I 3  
ENC 1101 Composition I 3  
HUM 2210* req# 1B1-GEP 3  
MGG 1106* req# 1C1-GEP 3  
ART 2820 Art as Interface 3  
Application See catalog 0
Spring
ARH 2051 His of West Art II 3  
ENC 1102 Composition II 3  
STA 1060C Stat Using Excel 3  
ART 2210C Design Fund 2 D 3  
Elective* Check restrictions 3

Sophomore Year
Fall
COM 1000* req# 1A3-GEP 3  
POS 2041* req# 1D1-GEP 3  
ART 2203C Design Fund 3 D 3  
ART 2300C Drawing Fund I 3  
GRA 2101C Intro to Comp Art 3  
Application See catalog 0
Spring
ART 2000* req# 1D2-GEP 3  
ESC 1005* req# 1E1-GEP 3  
CHM 1020* req# 1E1-GEP 3  
ART 2301C Drawing Fund II 3  
ARH 2500 His of West Art 3  
ART 3950 Portfolio Review 0

Junior Year
Fall
ART 2500C* req# 2-CPP 3  
ART 3332C* req# 4a. Spec 3  
ART 4320C* req# 4a. Spec 3  
GRA 3151C* req# 4a. Spec 3  
SPN 1120* req# Lang/Elect 4  
Application See catalog 0
Spring
ART 3611* req# 3-Core 3  
ART 4320C* req# 4a. Spec 3  
FIL 3286C* req# 4b. ResEl 3  
ARH 4800* req# 4c. ResEl2 3  
SPN 1121* req# Lang/Elect 4  
SPN 1121* req# Lang/Elect 4

Senior Year
Fall
GRA 4154C* req# 4a. Spec 3  
ART 2754C* req# 4b. ResEl 3  
PGY 2401C* req# 4b. ResEl 3  
GRA 4450* req# 4c. ResEl2 3  
E. Science Foundations 6 hrs
Elective* Check restrictions 1
Spring
GRA 4154C* req# 4a. Spec 3  
ART 3760C* req# 4b. ResEl 3  
PGY 4400* req# 4b. ResEl 3  
ARH 4430* req# 4c. ResEl2 3  
F. Science Foundations 6 hrs
ART 3935 FBA Exh Seminar 3

ART - ANIMATION (B.F.A.)
College of Arts and Humanities
Animation, VAB 210, 407-823-3110,  
http://www.art.ucf.edu/ then select “Programs”  
E-mail: animation@ucf.edu
K. Kovach 407-823-2983
Note: Although the department maintains a small computer lab for student use, Animation majors must have continual access to a laptop computer. Contact the department for the minimum hardware and software specifications.

Admission Requirements
• Animation students must successfully complete an Animation Portfolio Review to be admitted to this restricted access program. The Animation Portfolio Review submission deadline is March 15 for admission in the following Fall semester, and September 15 for admission in the following Spring semester.
• Applications must include a portfolio of work done in courses, such as drawings, design projects, computer graphics, animation work, and storyboards.
• Students should complete ART 2201C and ART 2300C before applying to be accepted in the Animation BFA program.
• Students must maintain an overall minimum 3.0 GPA in ART 2201C and ART 2300C.
• Students must submit a satisfactory drawing portfolio to be admitted to FIL 3286C.

Note: Unfortunately, individual reviews are not possible due to the large number of applicants to this program.

ART - ANIMATION TRACK (B.F.A.)

College of Arts and Humanities
Animation, VAB 210, 407-823-3110,  
http://www.art.ucf.edu/ then select “Programs”  
E-mail: animation@ucf.edu
K. Kovach 407-823-2983
Note: Although the department maintains a small computer lab for student use, Animation majors must have continual access to a laptop computer. Contact the department for the minimum hardware and software specifications.

Admission Requirements
• Animation students must successfully complete an Animation Portfolio Review to be admitted to this restricted access program. The Animation Portfolio Review submission deadline is March 15 for admission in the following Fall semester, and September 15 for admission in the following Spring semester.
• Applications must include a portfolio of work done in courses, such as drawings, design projects, computer graphics, animation work, and storyboards.
• Students should complete ART 2201C and ART 2300C before applying to be accepted in the Animation BFA program.
• Students must maintain an overall minimum 3.0 GPA in ART 2201C and ART 2300C.
• Students must submit a satisfactory drawing portfolio to be admitted to FIL 3286C.

Note: Unfortunately, individual reviews are not possible due to the large number of applicants to this program.

Degree Requirements
• Students who change degree programs and select this major must adopt the most current catalog.
• Grades below “C” (2.0) in lower level courses do not satisfy major requirements.
• Co-op credit cannot be used in the major.
• “D” grades from other institutions do not meet departmental requirements. Students should consult with a departmental advisor.
• Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken within the UCF Art and Film programs. Nine of these must be in Animation specialization.
• Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 6 hrs
Select a course from group B.1 3 hrs
Select ARH 2050 3 hrs
Select ARH 2051 3 hrs
C. Mathematical Foundations 3 hrs
Prefer MGF 1106
(Indicate a substitute at a higher level math)
Prefer STA 1060C 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites (18 hrs)
ART 2201C Design Fundamentals 2-D 3 hrs
ART 2203C Design Fundamentals 3-D 3 hrs
ART 2300C Drawing Fundamentals I 3 hrs
ART 2301C Drawing Fundamentals II 3 hrs
ARH 2050 The History of Western Art I GEP 3 hrs
ARH 2051 The History of Western Art II GEP 3 hrs
GRA 2101C Intro to Computer Art 3 hrs
ART 2XXX-4XXX any ART prefix, studio, media courses 3 hrs
* See Transfer Notes for possible substitutes

3. Core Requirements (12 hrs)
ART 2820 Art as Interface 3 hrs
ARH 2500 Survey of Non-Western Art 3 hrs
Any two upper level Art or Film History courses 6 hrs

4. Animation Upper Division Courses (18 hrs)
ART 3643C Digital Effects and Compositing 3 hrs
FIL 3286C Introduction to Animation 3 hrs
FIL 3287C Intermediate Animation 3 hrs
FIL 3410 History of Animated Films 3 hrs
FIL 4288C Advanced Animation 3 hrs
FIL 4289C Animation Workshop 3 hrs
*Workshops may be repeated

5. Restricted Electives
Elective in Art (15 hrs)
Select five courses; two of which may be lower division
Select from at least three of the following areas, excluding the area of specialization:
Ceramics, Drawing, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.

6. Departmental Exit Requirements
ART 4971 Thesis 3 hrs
Achieve at least a 3.0 average in required art and film courses
Computer Competency met by CGS 1060C or GRA 2101C

7. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.
9. University Minimum Exit Requirements
   ■ A 2.0 UCF GPA
   ■ 60 semester hours earned after CLEP awarded
   ■ 48 semester hours of upper division credit completed
   ■ 30 of the last 36 hours of course work must be completed in residence at UCF
   ■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   ■ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

 Related Programs: Art, Art Education, Art History, Film Production/Screen writing, Radio/TV
 Related Minors: Art, Digital Media, Film

Transfers Notes:
   ■ Courses taken at community colleges do not substitute for Upper Division courses
   ■ Courses transferred from private and out-of-state schools, and in-state senior institutions must be evaluated for equivalency. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
   ■ GRA 2101C*: A student may substitute any three hour digital art course; however, GRA 2101C is a prerequisite for subsequent art courses and will need to be taken for the major.

Suggested Plan of Study:
   One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternatives in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

 Fall
   ARH 2050 His of West Art I 3
   ENC 1102 Composition II 3
   HUM 2210* req# 1B1-GEP 3
   MGF 1106* req# 1E1-GEP 3
   ART 2820 Art as Interface 3
   Elective* Check restrictions 3
   Spring
   ARH 2051 His of West Art II 3
   ENC 1102 Composition II 3
   MGF 1106* req# 1E1-GEP 3
   ART 2201C Design Fundamentals 2-D 3
   ART 2820 Art as Interface 3
   Elective* Check restrictions 3

Sophomore Year

 Fall
   COM 1000* req# 1A3-GEP 3
   POS 2041* req# 2-CPP 3
   ART 2300C Drawing Fundamentals I 3
   ART 2300C Drawing Fundamentals II 3
   GRA 2101C Intro to Comp Art 3
   Elective* Check restrictions 3
   Spring
   BSC 1005* req# 1E2-GEP 3
   ENC 2210* req# 1B1-GEP 3
   ENC 3311 Advanced Expository Writing 3
   Elective* Check restrictions 3

Junior Year

 Fall
   ARH 3161* req# 3-Core 3
   GRA 3151C* req# 3-Core 3
   ART 3643C Dig Effects Comps 3
   PGC 2401C* req# 5-ResEn 3
   SPN 1120* req# Lang/Elec 4
   Application See catalog 0
   Spring
   FIL 3287C Int Animation 3
   FIL 3410 His of Ani Films I 3
   ART 3323C* req# 5-ResEn 3
   ART 4320C* req# 5-ResEn 3
   SPN 1121* req# Lang/Elec 4
   Application See catalog 0

Senior Year

 Fall
   ARH 2500 His of West Art 3
   FIL 4288C Advanced Animation 3
   PGC 3410C* req# 5-ResEn 3
   Elective* Check restrictions 3
   Spring
   ART 2000* req# 1D2-GEP 3
   FIL 4289C Animation Workshop 3
   PGC 4200C* req# 5-ResEn 3
   ART 4911 Senior Thesis 3
   Elective* Check restrictions 3

4. Restricted Electives
   a. One Non-Western Art History Course:
      ARH 3520 African Art 3 hrs
      ARH 4545 Art of India 3 hrs
      ARH 4655 MesoAmerican Art 3 hrs
      a. One of the following courses:
      ARH 4200 Medieval Art 3 hrs
      ARH 4350 Baroque Art 3 hrs
      ARH 4892 Women in Art 3 hrs
      c. Select 15 additional hours from following:
      ARH 3471 Art in Last 25 Years 15 hrs
      ARH 3520 African Art 3 hrs
      ARH 3520 American Art 3 hrs
      ARH 3710 History of Photography I 3 hrs
      ARH 3711 History of Photography II 3 hrs
      ARH 3720 History of Prints 3 hrs
      ARH 4170 Greek and Roman Art 3 hrs
      ARH 4350 Baroque Art 3 hrs
      ARH 4655 MesoAmerican Art 3 hrs
      ARH 4892 Women in Art 3 hrs
      ARH 5897 Adv. Seminar in Art History 3 hrs
      ARH 3XXX-4XXX Additional Art History course 3 hrs

5. Departmental Exit Requirements
   a. Senior Thesis:
      ARH 4912 Senior Thesis 3 hrs
      ARH 4906 Comprehensive Exam 1 hr
      ■ Achieve at least a “C” GPA (2.0) in courses within the major
      ■ Computer Competency met by STA 1060C, GRA 2101C, or ARH 3820

ART - HISTORY TRACK (B.A.)
College of Arts and Humanities
Art Department, VAB 117, 407-823-2676
http://www.art.ucf.edu/
E-mail: art@ucf.edu

M. Gonzalez, 407-823-4995

Admission Requirements
   none

Degree Requirements
   ■ Students who change degree programs and select this major must adopt the most current catalog.
   ■ Grades below “C” (2.0) in lower level courses do not satisfy major requirements
   ■ Co-op credit cannot be used in the major
   ■ Students should consult with a departmental art history advisor
   ■ Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these must be in an area of ARH specialization.
   ■ Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
   B. Cultural and Historical Foundations (12 hrs)
   Select ARH 2050 History of Western Art I 3 hrs
   Select ARH 2051 History of Western Art II 3 hrs
   C. Mathematical Foundations (3 hrs)
   Prefer MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
   D. Social Foundations (6 hrs)
   E. Science Foundations (6 hrs)

2. Common Program Prerequisites (12 hrs)
   ART 2201C Design Fundamentals 2-D 3 hrs
   ARH 2050 History of Western Art I 3 hrs
   ARH 2051 History of Western Art II 3 hrs

3. Core Requirements (18 hrs)
   ARH 2050 Survey Non-Western Art 3 hrs
   ARH 4310 Italian Renaissance Art 3 hrs
   ARH 4430 Nineteenth Century Art 3 hrs
   ARH 4450 Twentieth Century Art 3 hrs
   ARH 4890 Theory and Criticism of Visual Arts 3 hrs
   ENC 3311 Advanced Expository Writing 3 hrs

4. Restricted Electives
   (21 hrs)
   a. One Non-Western Art History Course:
      ARH 3520 African Art 3 hrs
      ARH 4545 Art of India 3 hrs
      ARH 4655 MesoAmerican Art 3 hrs
      a. One of the following courses:
      ARH 4200 Medieval Art 3 hrs
      ARH 4350 Baroque Art 3 hrs
      ARH 4892 Women in Art 3 hrs
      c. Select 15 additional hours from following:
      ARH 3471 Art in Last 25 Years 15 hrs
      ARH 3520 African Art 3 hrs
      ARH 3520 American Art 3 hrs
      ARH 3710 History of Photography I 3 hrs
      ARH 3711 History of Photography II 3 hrs
      ARH 3720 History of Prints 3 hrs
      ARH 4170 Greek and Roman Art 3 hrs
      ARH 4350 Baroque Art 3 hrs
      ARH 4655 MesoAmerican Art 3 hrs
      ARH 4892 Women in Art 3 hrs
      ARH 5897 Adv. Seminar in Art History 3 hrs
      ARH 3XXX-4XXX Additional Art History course 3 hrs

5. Departmental Exit Requirements (4 hrs)
   ARH 4912 Senior Thesis 3 hrs
   ARH 4906 Comprehensive Exam 1 hr
   ■ Achieve at least a “C” GPA (2.0) in courses within the major
   ■ Computer Competency met by STA 1060C, GRA 2101C, or ARH 3820
6. Foreign Language Requirements (0-11 hrs)

Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to four semesters of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. German, French or Italian preferred, although other languages are acceptable with prior consent of advisor. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

(A maximum of six hours of Independent Study, Practicum, and Internship are permitted)

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Studio Art (BA, BFA), Art Education, Animation, Digital Media.

Related Minors: Studio Art, Partners in Visual Art Education

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>ARH 2050 His of West Art I 3</td>
<td>ARH 2051 His of West Art II 3</td>
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<td>ENC I101 Composition I 3</td>
<td>ENC I102 Composition II 3</td>
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<td>MGF 1100* req# 1C1-GEP I 3</td>
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Sophomore Year

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<td>ART 2000* req# 1D2-GEP 3</td>
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<td>POS 2041* req# 1D1-GEP I 3</td>
<td>BSC 1005* req# 1E2-GEP 3</td>
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<td>ChM 1020* req# 1E1-GEP 3</td>
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<td>ART 2300C Drawing Fund II 3</td>
<td>ARH 4545* req# 4a-ResEl 3</td>
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<td>ENC 3311 Adv Exp Writing 3</td>
<td>SPN 1120* req# Lang/Elect 4</td>
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Junior Year

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<td>ARH 4310 Italian Renais Art 3</td>
<td>ARH 4430 19th Century Art 3</td>
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<td>ARH 4450 20th Century Art 3</td>
<td>ARH 4800 Thry Critic of Vis 3</td>
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<td>SPN 1121* req# Lang/Elect 3</td>
<td>SPN 2200* req# Lang/Elect 3</td>
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Senior Year

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<tr>
<td>ARH 4350* req# 4b-ResEl 3</td>
<td>ARH 4170* req# 4c-ResEl 3</td>
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<td>ARH 4912 Senior Thesis 3</td>
<td>ARH 4906 Comprehensive exam 1</td>
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<td>Elective* Check restrictions 3</td>
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<td>Elective* Check restrictions 3</td>
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</table>

1. UCF General Education Program (36 hrs)

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations
- Select a course from group B.1 3 hrs
- Select ARH 2050 The History of Western Art I 3 hrs
- Select a course from either group B.1 or B.2 3 hrs
C. Mathematical Foundations
- Prefer MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
- Prefer STA 1060C Statistics Using Excel 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites (21 hrs)

- ART 2201C Design Fundamentals 2-D 3 hrs
- ART 2203C* Design Fundamentals 3-D 3 hrs
- ART 2300C Drawing Fundamentals I 3 hrs
- ART 3301C Drawing Fundamentals II 3 hrs
- ARH 2050 The History of Western Art I GEP 3 hrs
- ARH 2051 The History of Western Art II 3 hrs
- GRA 2101C Intro to Computer Art 3 hrs
- ART XXXX-XXXX any ART prefix, studio or media course 3 hrs
- *See Transfer Notes for possible substitutes

3. Core (6 hrs)

- ART 2820 Art As Interface 3 hrs
- ARH 2500 History of Non-Western Art 3 hrs
- ARH 3950 Portfolio Review 0 hrs

4. Restricted Electives (27 hrs)

Specialization:

Select nine upper division courses from at least three areas:

Art History (any upper level ARH courses)
- Ceramics (ART 3760C, ART 4783C*)
- Drawing and Printmaking (ART 3322C, ART 3433C, ART 4320C*, ART 4402C*)
- Illustration (GRA 3151C, GRA 4154C*)
- Painting (ART 3504C, ART 4505C*)
- Photography (PGY 2401C, PGY 4420C*, PGY 4440C)
- Sculpture (ART 2701C, ART 4710C*)
- The Artist Book (ART 4173)

*Type & Design (GRA 3133C)

5. Departmental Exit Requirement

Achieve at least a “C” GPA (2.0) overall in courses within
### UCF Degree Programs

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<td>req# 1E1-GEP</td>
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<td>Design Fund 2</td>
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<td>HUM 2210*</td>
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<td>STA 1060C</td>
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<td>STA 2014C</td>
<td>Principles of Statistics</td>
<td>Summer</td>
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</table>

### 1. UCF General Education Program

**A. Communication Foundations** (9 hrs)
- ENC 1101 Composition I (3 hrs)
- ENC 1102 Composition II (3 hrs)
- STA 2014C Principles of Statistics (3 hrs)

**B. Cultural-Historical Foundations** (9 hrs)
- Select AMH 1010 U.S. History 1492-1877 (3 hrs)
- Select AMH 2020 U.S. History 1877-Present (3 hrs)
- Select PHI 2010 Introduction to Philosophy (3 hrs)

**C. Mathematical Foundations** (6 hrs)
- Select MGF 1106 Finite Mathematics (3 hrs)
- STA 1060C Basic Statistics using MS Excel (3 hrs)
- STA 2014C Principles of Statistics (3 hrs)

**D. Social Foundations** (6 hrs)
- Select POS 2041 American National Government (3 hrs)
- Select PSY 2012 General Psychology (3 hrs)

**E. Science Foundations** (6 hrs)
- Select PSC 1121 Physical Science (3 hrs)
- Select one: 3 hrs
  - ANT 2511 The Human Species
  - BSC 1005 Biological Principles

**Note:** See laboratory component under Section 2.

### 2. Common Program Prerequisites

**A. Communications** (9 hrs)
- ENC 1101 Composition I
- ENC 1102 Composition II
- STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics

**B. Humanities** (6 hrs)
- Select one: 3 hrs
  - AMH 2010 U.S. History 1492-1877
  - AMH 2020 U.S. History 1877-Present
  - PHI 2010 Introduction to Philosophy

**C. Mathematics** (9 hrs)
- Select one: 3 hrs
  - MAC 1105 College Algebra
  - MGF 1106 Finite Mathematics

**D. Social Science/History** (12 hrs)
- Select one: 3 hrs
  - AMH 1010 U.S. History 1492-1877
  - AMH 2020 U.S. History 1877-Present

**E. Science** (9 hrs + lab)
- Select one: 3 hrs
  - BSC 1005 Biological Principles
  - ANT 2511 The Human Species

### Admission Requirements

- Complete the University General Education requirements or its equivalent, (i.e. an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

### Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.
11. Total Program Semester Hours Required  127 hrs
Consult with your advisor and review your degree audit for more recent information.

12. Recommended Four-Year Sequence of Courses

Fall (15 hrs)  Spring (12 hrs)
EDF 2005  3 hrs  ARH 2051  3 hrs
EDC 2701  3 hrs  EDG 2701  2 hrs
MGF 1106  3 hrs  ENC 1102  3 hrs
ARH 2050  3 hrs  MAC 1105  3 hrs
PSY 2121  3 hrs

Summer (6 hrs)  
EME 2040  3 hrs
SPC 1600  3 hrs

Sophomore Year
Fall (15 hrs)  Spring (16 hrs)
AMH 2010  3 hrs  AMH 2020  3 hrs
ART 2201C  3 hrs  ART 2203C  3 hrs
BSC 1005  3 hrs  ART 2300C  3 hrs
PHI 2010  3 hrs  POS 2041  3 hrs
STA 2014C  3 hrs  PSC 1121  3 hrs
PSC 1121L  1 hr

Summer (3 hrs)  
GRA 2101C  3 hrs
AST 2002  3 hrs

Junior Year
Fall (15 hrs)  Spring (15 hrs)
ARE 4356  3 hrs  ARE 4352  3 hrs
ART 2301C  3 hrs  ART 2300C  3 hrs
EDF 4214  3 hrs  RED 4043  3 hrs
EDG 4323  3 hrs  Restricted elective (ARE/ARH/ART/PGY 3/4XXX)  3 hrs
TSL 4080  3 hrs

Summer (3 hrs)  
ART 2754C  3 hrs

Senior Year
Fall (12 hrs)  Spring (12 hrs)
ARE 4351  3 hrs  ESE 4943  12 hrs
EDF 4603  3 hrs
ESE 3940  3 hrs
Restricted elective ARE/ARH/ART/PGY 3/4XXX  3 hrs

BIOLOGY (B.S.)

College of Sciences
Biology Department, BL 301, 407-823-2141
http://www.cas.ucf.edu/biology
E-mail: biology@ucf.edu
Contact: P. Logiudice, 407-823-2141

Admission Requirements
None

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- No credit by exam (TSD, Military credit) may be used for the major.
- Co-op or internship credit cannot be used in this major.
- No more than 12 hours of ESE 4943 and ESE 4949 may be applied toward major requirements.
- Students seeking a double major must satisfy the requirements
for both majors and must take no fewer than 40 semester hours of upper division restricted elective course work appropriate to the combined areas of specialization in the two majors.

Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.

1. UCF General Education Program (36+3 hrs)
(Note: Certain courses must be selected in the GEP for this major, bringing the total GEP hours to more than 36.)

A. Communication Foundations
1. Select ENC 1101 and ENC 1102 6 hrs
2. Prefer SPC 1016 3 hrs

B. Cultural and Historical Foundations
C. Mathematical Foundations
1. Select MAC 2311 or MAC 2241 4 hrs
2. Select STA 2023 3 hrs

D. Social Foundations

E. Science Foundations
1. Select CHM 2045 4 hrs
2. Select BSC 2010C 4 hrs

2. Common Program Prerequisites (16 hrs)

BSC 2010C* Biology I GEP
BSC 2011C* Biology II GEP
Select one Calculus course
MAC 2311* Calculus w/ Anal Geometry I GEP
MAC 2311* Calculus for Life Sciences GEP
STA 2023* Statistical Methods I GEP
CHM 2045C* Chem Fund I GEP
CHM 2046 & L Chem. Fund II & lab 4 hrs
Select one Physics sequence with labs* 8 hrs
PHY 2053C College Physics I
PHY 2054C College Physics II or
PHY 2048 & L Physics Engr. & Sci. I & Lab
PHY 2049 & L Physics Engr. & Sci. II & Lab

*See Transfer Notes for possible substitutes

CHM 2040 plus CHM 2041 can substitute for CHM 2045C

3. Core requirements (21-23 hrs)

Select one Chemistry sequence
CHM 2210 Organic Chem. I, and 3 hrs
CHM 2211 & L Organic Chem. II & lab 5 hrs

or

CHM 3120 Analytical Chemistry, and 5 hrs
CHM 2205 Intro Organic & Biochemistry 5 hrs

PCB 3043 Ecology 3 hrs
PCB 3063 Genetics 3 hrs
PCB 3023 Molecular Cell Biology 3 hrs
PCB 4683 Population Biol & Evolution 4 hrs

(Note: Students planning on entering professional or graduate school should take Biochemistry (BCH 4053, BCH 4054) as well as additional Calculus courses. Students are urged to consult their departmental advisor.)

4. Upper Division Restricted Electives (22 hrs)

Courses must be selected from the groupings listed below.

Student must complete at least one course dealing exclusively with animals (marked ‘a’) and one course dealing exclusively with plants (marked ‘b’).

At least three credit hours from each group must be completed.

At least 10 hours of the Upper Division Restricted electives must be taken within the UCF Biology Department.

Transferred courses must be at a 3000 level or higher, and be evaluated by a departmental advisor, in order to count as an Upper Division Restricted Elective.

Courses at the 5000 level are only open to seniors and beginning graduate students.

4.1 Form/Function (minimum of one lecture course)

BCH 4053 Biochemistry I 3 hrs
BCH 4054 Biochemistry II 3 hrs
b BOT 4223C Plant Anatomy 4 hrs
b BOT 4303C Plant Kingdom 5 hrs
b BOT 4503 Plant Physiology 3 hrs
BSC 4101 History of Biology 3 hrs
a BSC 4454 Research in Animal Physiology 2 hrs
PCB 3063L Genetics Laboratory 1 hr
PCB 3233 Immunology 3 hrs
PCB 3024L Molecular Cell Biology Laboratory 2 hrs
PCB 3703C Human Physiology 4 hrs
PCB 4514 Genetics II 3 hrs
PCB 4524 Molecular Biology II 3 hrs
a PCB 4723 Animal Physiology 4 hrs
PCB 4863L Population Bio and Evolution Lab 1 hr
PCB 5107C Adv Cell Biology 4 hrs
b PCB 5108 Concepts in Plant Cell Biology 4 hrs
a PCB 5256C Adv Develop Biology 4 hrs
PCB 5556 Conservation Genetics 3 hrs
PCB 5665C Human Genetics 4 hrs
a ZOO 3713C Comparative Vert Anatomy 5 hrs
ZOO 3733C Human Anatomy 4 hrs
a ZOO 4603C Embryology/Development 5 hrs
a ZOO 4753C

4.2 Environmental (minimum of one lecture course)

b BOT 3152C Local Flora 3 hrs
b BOT 3600 Ethnobotany 3 hrs
b BOT 4156C Florida Wildflowers 4 hrs
b BOT 4666C Conservation of Native Plants 4 hrs
b BOT 5623C Plant Geography & Ecology 4 hrs
BSC 4312L Marine Biology 4 hrs
PCB 3044L Ecology Laboratory 1 hr
PCB 3304C River Ecology 4 hrs
PCB 3355C Tropical Marine Biology 2 hrs
PCB 3442 Florida Aquatic Ecology 3 hrs
PCB 4302C Physicochemical Limnology 4 hrs
PCB 4303C Biological Limnology 4 hrs
PCB 5045C Conservation Biology 4 hrs
PCB 5328C Landscape Ecology 4 hrs
PCB 5326C Ecosystems of Florida 5 hrs
PCB 5485 Models in Ecology 3 hrs
PCB 5xxx Methods in Experimental Ecology 3 hrs
PCB 5xxx Tropical Biology Research and Conservation 3 hrs

a ZOO 4513 Animal Behavior 3 hrs
a ZOO 5520 Behavioral Ecology 3 hrs
a ZOO 5815 Zoogeography 4 hrs
a ZOO 5881C Fisheries Management 4 hrs
a ZOO 5893L Repro Mgt Zool Env 1 hr

4.3 Systematic (minimum of one lecture course)

b BOT 4713C Taxonomy 5 hrs
b BOT 5485C Terrestrial Cryptogams 3 hrs
b SPC 5xxx Advanced Entomology 4 hrs
a ENY 4004C General Entomology 4 hrs
MCB 3020C General Microbiology 5 hrs
PCB 3301C Aquatic Biology 4 hrs
a ZOO 4205C Bio & Ecol of Metazoan Inverts 4 hrs
a ZOO 4310C Vertebrate Evolution & Ecol 4 hrs
a ZOO 5456C Ichthyology 4 hrs
a ZOO 5475C Ornithology 4 hrs
a ZOO 5486C Mammalogy 4 hrs
PCB 5556 Conser. Genetics 3 hrs
PCB 5108 Concepts in Plant Cell Biology 4 hrs
a ZOO 5893L Repro Mgt Zool Env 1 hr

Additional courses (e.g., BSC 4422L and BSC 5408L) may be used to meet a group requirement with approval of the Curriculum Committee via petition.

5. Departmental Exit Requirements

A minimum GPA of 2.0 in all UCF courses taken in the Common Program Prerequisites, the Biology Core and the Upper Division Restricted Electives.

To demonstrate Computer Competency students are expected to 1) check and maintain their campus electronic mail account and 2) be capable of locating, viewing, and retrieving class and research information on the World Wide Web.

Students will be required to take a comprehensive exam in biology during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring.

Biology majors should not take any courses required in the major as a transient student at a community college.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

8. University Minimum Exit Requirements

A 2.0 UCF GPA
**BIOLOGY - PREPROFESSIONAL CONCENTRATION (B.S.)**

**College of Sciences**  
Biology Department, BL 301, 407-823-2141  
http://www.cas.ucf.edu/biology  
E-mail: biology@ucf.edu

Contact: F. Logiudice, 407-823-2141

Students who hope to gain admission to a professional school (medical, dental, optometry, veterinary medicine, etc.) can meet the admission requirements while pursuing a Biology degree. The following track lists courses that will meet both sets of requirements.

**Admission Requirements**
- **Biology**
  - Students who change degree programs and select this major must adopt the most current catalog.
  - No credit by exam (TSD, Military credit) may be used for the major.
  - Notice: Professional schools do not accept AP or IB credit.
  - Co-op or internship credit cannot be used in the major
  - No more than four hours of BSC 4422L, BSC4937L.

**Degree Requirements**
- Students seeking a double major must satisfy the requirements of both majors.
- Independent Study, Directed Research, or similar types of credit may be applied toward major requirements.
- Departmental Residency Requirement consists of at least 23 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Biology Department.
- Students seeking a double major must satisfy the requirements for both majors and must take no fewer than 40 semester hours of upper division restricted elective course work appropriate to the combined areas of specialization in the two majors.
- Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.

1. **UCF General Education Program** (36+3 hrs)  
   *(Note: Certain courses must be selected in the GEP for this major, bringing the total GEP hours to more than 36.)*

   **A. Communication Foundations**
   - Select ENC 1101 and ENC 1102  
     6 hrs
   - Prefer SPC 1016  
     3 hrs

   **B. Cultural and Historical Foundations**
   - 9 hrs

   **C. Mathematical Foundations**
   - 4 hrs
   - Select STA 2023 or MAC 2241
   - 4 hrs
   - Select STA 2023  
     3 hrs

   **D. Social Foundations**
   - 6 hrs

   **E. Science Foundations**
   - 4 hrs
   - Select CHM 2211 or MAC 2241
   - 4 hrs
   - Select BSC 2101C
   - 4 hrs

2. **Common Program Prerequisites** (16 hrs)

   **BSC 2010C**
   - Biology I
   - 4 hrs
   - Biology II
   - 4 hrs

   **STA 2023**
   - 3 hrs

   **MAC 2311**
   - Calculus w/ Anal Geometry I
   - 4 hrs
   - Calculus for Life Sciences
   - 4 hrs

   **PHYS 2053C**
   - College Physics I
   - 4 hrs
   - College Physics II
   - 4 hrs

   **PHY 2048 & L**
   - Physics Engr. & Sci. I & Lab
   - 4 hrs
   - Physics Engr. & Sci. II & Lab
   - 4 hrs

   **Select one**
   - PHY 2053C College Physics I
   - 8 hrs
   - PHY 2054C College Physics II
   - 8 hrs
   - PHY 4048 & L Physics Engr. & Sci. I & Lab
   - 8 hrs
   - PHY 4049 & L Physics Engr. & Sci. II & Lab
   - 8 hrs

   *See Transfer Notes for possible substitutes
   *CHM 2040 plus CHM 2041 can substitute for CHM 2045C

3. **Core requirements** (21 hrs)

   **BSC 2010C**
   - Molecular and Microbiology
   - 3 hrs
   - Genetics
   - 3 hrs

   **PHY 2053C**
   - Organic Chem. I
   - 3 hrs
   - Organic Chem. II & lab
   - 5 hrs

   **PCB 3023**
   - Molecular Cell Biology
   - 3 hrs
   - Population Biology & Evolution
   - 4 hrs

4. **Restricted Electives (Suggested)** (22 hrs)

   **Student must complete at least one course dealing exclusively**
with animals (marked 'a') and one course dealing exclusively
with plants (marked 'b').
- At least 10 hours of the Upper Division Restricted electives must
  be taken within the UCF Biology Department.
- Transferred courses must be at a 3000 level or higher.
- The following suggestions are appropriate for many professional
  schools. Consult a departmental advisor and be cognizant of the
  professional school's requirements. For complete listing, see
  Biology B.S. degree program.

4.1 Form/Function (minimum of one lecture course)
- BCH 4053 Biochemistry I 3 hrs
- BCH 4054 Biochemistry II 3 hrs
- a. BSC 4454 Research in Animal Physiology 2 hrs
- PCB 3063 Genetics Laboratory 1 hr
- PCB 3024L Molecular Cell Biology Laboratory 2 hrs
- PCB 3233 Immunology 3 hrs
- PCB 4514 Genetics II 3 hrs
- PCB 5665C Human Genetics 4 hrs
- a. PCB 4723 Animal Physiology 4 hrs
- a. ZOO 3713C Comparative Vert Anatomy 5 hrs
- a. ZOO 4603C Embryology/Development 5 hrs
- a. ZOO 4753C Vertebrate Histology 4 hrs

4.2 Environmental (minimum of one lecture course)
- b. BOT 3800

4.3 Systematic (minimum of one lecture course)
- MCB 3020C General Microbiology 5 hrs
- a. ZOO 4205C Bio & Ecol of Metazoan Inverts 4 hrs
- a. ZOO 4310C Vertebrate Evolution & Ecol 4 hrs

5. Departmental Exit Requirements
- A minimum GPA of 2.0 in all UCF courses taken in the Common
  Program Prerequisites, the Biology Core and the Upper Division
  Restricted Electives.
- To demonstrate Computer Competency students are expected to be
  1) check and maintain their campus electronic mail account and
  2) be capable of locating, viewing, and retrieving class and
  research information on the World Wide Web.
- Students will be required to take a comprehensive exam in biolo-
  gy during their last semester. The exam will be given in the Fall
  and Spring semesters. Students who plan to graduate in the
  Summer must take the exam in the Spring.
- Biology majors may not take any courses required in the major
  as a transient student at a community college.

6. Foreign Language Requirement (0-8 hrs)
- Admission: Two years of one foreign language in high school, or
  one year of one foreign language in college (or equivalent profi-
  ciency exam) prior to graduation.
- Graduation: none
- Spanish is highly recommended.

7. Electives (variable)
- Select primarily from upper level courses, with departmental advi-
  sor’s approval. May be outside of the department.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in resi-
  dency at UCF
- A minimum of 45 hours of extension, correspondence, CLEP,
  Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the
  CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Biology, Chemistry, Molecular/Microbiology
Related Minors: none

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper
  Division courses.
- Courses transferred from private and out-of-state schools must be
  evaluated for equivalency credit. The student must provide all
  supporting information.

Acceptable Substitutes for common program prerequisites if taken
prior to transferring to UCF:
- BSC 2010C & Lab: may use PCB 2011, PCB 2021, PCB 2131, BSC 1040, or BSC 2012
- BSC 2011C & Lab: may use ZOO 2010, BOT 2010, BSC 2041, or BOT 1013. However, subsequent Biology courses require
  either BSC 2011C or both ZOO 2010 and BOT 2010.
- STA 2023: may use STA 2122, STA 2014C, STA 2023, STA 2024, STA 2321, MAC 2234, MAC 2254, or MAC 3282.
- However, statistics at or above the level of STA 2023 is required
  in the major and must still be taken.
- MAC 2311: may use MAC 2233, MAC 2253 or MAC 2281
- PHY 2048 & 2049: Although Common Program Prerequisites
  permit substituting Organic Chemistry for Physics, both Physics
  and Organic Chemistry must be taken as part of the Biology
  degree requirements.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all require-
ments. Courses with an asterisk (*) may be replaced by alternates in the same
requirement. Consult a departmental advisor for alternate, new or more appropriate
selections.

Summer
- Chem test See catalog 0
- Math test See catalog 0

Freshman Year
- Fall
  - BSC 2010C Biology I 4 hrs
  - CHM 2045C Chemistry Fund I 4 hrs
  - ENC 1101 Composition I 3 hrs
  - Elective* Check restrictions 3 hrs
- Spring
  - MAC 2311 Calc Anal Geo I 4 hrs
  - POS 2041* req# 1D1-GEP 3 hrs
- Sophomore Year
- Fall
  - MAC 2311 Calc Anal Geo I 4 hrs
  - PCB 3023 Mol Cell Biology 3 hrs
  - ZOO 3713C* req# 4.1-ResEl 5 hrs
- Spring
  - MAC 2312 Calc Anal Geo II 4 hrs

Junior Year
- Fall
  - HUM 2210* req# 1B1-GEP 3 hrs
  - PHY 2048* req# 2-CPP 3 hrs
  - PCB 3023 Mol Cell Biology 3 hrs
  - ZOO 3713C* req# 4.1-ResEl 5 hrs
- Spring
  - PCB 3044 Prin of Ecology 3 hrs
  - PCB 4053 Biochemistry II 3 hrs
  - Elective* Check restrictions 3 hrs

Senior Year
- Fall
  - MAC 2311 Calc Anal Geo I 4 hrs
  - POS 2041* req# 1D1-GEP 3 hrs
  - REL 2300* req# 1B3-GEP 3 hrs
  - PCB 4863 Pop Bioiology Ecol 4 hrs
  - Elective* Check restrictions 3 hrs
- Spring
  - PCB 3023* req# 4.3-ResEl 5 hrs

BUSINESS ADMINISTRATION (B.A.B.A.)
(Completion program for individuals who have a statewide articulated
A.A. from a Florida public community college)
College of Business Administration
BA 240, 407-823-2184
http://www.bus.ucf.edu
email: cba@bus.ucf.edu
Clermont campus advising: Selena Forrest, 352-536-2174; Cocoa campus advising: Angelia Jones, 321-433-7889; Daytona campus advising: LeeAnn Davis, 386-506-4021; Main Campus Advising: BA 240, 407-823-2184

The Bachelor of Arts in Business Administration (B.A.B.A.) within the College of Business Administration is a degree that will allow students to tailor their degree program to meet the needs of their chosen profession, through the use of an existing minor and a foreign language. The B.A.B.A. degree is significantly different than the traditional business degree at UCF such as Marketing, Finance.
Accounting, etc. The B.A.B.A. degree would permit course enrollment across various disciplines, in correspondence with the academic and life goals of each student. As such, B.A.B.A. is an individualized program of study consisting of: the common program prerequisites, an approved academic minor, one year of foreign language, and the business core. Students must choose any minor outside the College of Business. The B.A.B.A. degree enables UCF's undergraduate students to graduate from the University with a specialized degree, having a business emphasis, uniquely designed by the student and his or her advisor.

**Admission Requirements**

2.0 GPA and completion of General Education and Common Program Prerequisites.

**Degree Requirements**  
(Note: This degree program is offered only at Cocoa, Daytona, MetroWest, Palm Bay, Sanford/Lake Mary, and South Lake Campuses.)

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each Common Program Prerequisites class.
- Students wanting a Bachelor of Arts in Business Administration must apply for admission to the major.
- Any student receiving a B.A.B.A. degree must complete one-half (15) of the 30 upper level business courses for their degree program in the College of Business Administration.
- Students must earn at least a 2.0 GPA in the College of Business Administration.
- Students seeking a B.A.B.A. major must earn a grade of "C" (2.0) or better in each course applied toward the major.

1. **UCF General Education Program** (36 hrs)
   - A. Communication Foundations 9 hrs
     - Select SPC 1600
   - B. Cultural and Historical Foundations 9 hrs
     - Select MAC 1105 College Algebra
   - C. Mathematical Foundations 3 hrs
     - Select STA 2023 Principles of Statistics
   - D. Social Foundations 3 hrs
     - Select ECO 2013 Macroeconomics or ECO 2031 Microeconomics, PSY 2012, SYG 2000 or ANT 2000
   - E. Science Foundation
     - Select ECO 3401 Quantitative Business Tools
     - Select MAC 2233 or STA 2023

2. **Common Program Prerequisites** (18-21 hrs)
   - Must be completed with a "C" (2.0) or better.
   - ACG 2021 Principles of Managerial Accounting 3 hrs
   - ACG 2022 Principles of Managerial Accounting 3 hrs
   - ECO 2013 Macroeconomics 3 hrs
   - ECO 2023 Microeconomics 3 hrs
   - *ECO 3401 Quantitative Business Tools 3 hrs
   - CGS 2100CC Computer Fundamentals for Business 3 hrs
   - UCF students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401.
   - Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. **Common Body of Knowledge** (30 hrs)
   - Required for all students
   - First or subsequent semester in the College of Business Administration:
     - GEB 3350 Introduction to International Business 3 hrs
     - BUL 1130 Legal and Environmental Business 3 hrs
     - ECO 3411 Quantitative Business Tools II 3 hrs
     - FIN 3403 Business Finance 3 hrs
     - MAN 3025 Management of Organizations 3 hrs
     - ISM 3011 Essentials of Information Systems 3 hrs
     - MAR 3023 Marketing 3 hrs
   - Last Semester:
     - MAN 4720 Strategic Management 3 hrs

4. **Area of Specialization** (18 hrs min)
   - Students who change degree programs and select another major must adopt the most current catalog.
   - Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
   - Students wanting to major in General Business must apply for admission to the major.
   - Final exams will be given during Exam Week.

- Any student receiving a business degree must complete one-half (15) of the 30 upper level business courses for their degree program in the College of Business Administration.
- Students who change degree programs and select this major
- Students wishing to major in General Business must apply for admission to the major.
- Final exams will be given during Exam Week.

5. **Departmental Exit Requirement** (3 hrs)
   - Maintain a minimum GPA of 2.0 in all courses.

6. **Foreign Language Requirements** (0-8 hrs)
   - Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. **University Minimum Exit Requirements**
   - A 2.0 UCF GPA
   - 60 semester hours earned after any CLEP award
   - 30 of the last 36 hours of course work must be completed in residence at UCF
   - A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits are permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

**Total Semester Hours Required:** 120 hrs (A.A. Transfers)

**Transfer Notes**

- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. UCF students who have completed the who have completed MAC 2233 and STA 2023 will be waived from ECO 3401.
- Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- 3000 & 4000 level courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate or Finance. These are third and fourth year (junior and senior) course areas and cannot be satisfied with freshman or sophomore level courses.
- Any student receiving a B.A.B.A. degree must complete one-half (15) or the 30 upper level business courses for their degree program in the UCF College of Business Administration.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

**CARDIOPULMONARY SCIENCES (B.S.)**

**College of Health and Public Affairs**

**HPA2 210; 407-823-2214**

http://www.cooha.ucf.edu/health.pro/

Undergraduate Program Director: Jeffery E. Ludy, EdD, RRT
E-mail: jludy@mail.ucf.edu

**Admission Requirements - Limited Access**

Acceptance to the university does not necessarily constitute admission to the upper division cardiopulmonary sciences program.

- Separate Application to the limited access program must be made directly to the program prior to February 1st of the year admission is sought.
- Application to the University must also be submitted by the program deadline of February 1st. Acceptance to UCF is necessary before acceptance to the Cardiopulmonary Sciences program...
can occur.

- This limited access program is work-intensive and courses include clinical practice in a variety of health care settings. Due to this it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.

- A personal interview is a required part of the application process.

- Student must complete all general education, foreign language, and program admission prerequisites by the end of Spring Semester before starting the program.

- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C".

- A one page statement of intent for entry into the profession must be included with the program application. Typical papers are single spaced and approximately 500 words in length. Candidate should reflect on their reasons for wishing to become a respiratory care professional and their feelings concerning their recent site visit to a respiratory or cardiopulmonary department.

- Applicants are required to complete a cardiopulmonary resuscitation (CPR) program specifically designed for health care providers prior to admission to the program.

- The limited access portion of the cardiopulmonary sciences program has a requirement for all students to submit a criminal background check prior to the scheduling of a personal interview. This requirement mirrors clinical affiliates’ need to guarantee patient safety by screening students prior to providing them access to their patient populations.

- The practice of respiratory care can be a physically challenging experience. Students must possess a level of visual acuity, auditory perception, and motor coordination necessary to participate fully in this limited access program. Specific questions about the physical requirements for this program and professional duties should be directed to the Program Director.

This department will continue to accept Associate in Arts (AA) and Associate in Science (AS) transfers, but those students admitted with the AS degree will need to complete the UCF General Education requirements before they can be actively considered for admission to this limited access program. Students should seek advisement from the program as soon as they declare Cardiopulmonary Sciences as their major so that they are kept abreast of current articulation activity.

Note: A total of 20 UCF undergraduate students are admitted each Fall semester for the regular Cardiopulmonary Sciences program. Registered Respiratory Therapists (RRT’s) applying for this program must complete an appointment with an advisor. The UCF Cardiopulmonary Sciences program maintains an active Transfer Notes:

- Health Services Administration, Aging Studies Certificate
- Radiologic Sciences, Nursing, Physical Therapy,
- Related Programs: Radiologic Sciences, Nursing, Physical Therapy, Health Services Administration, Aging Studies Certificate
- Related Minors: Health Services Administration, Health Sciences, Molecular Biology & Microbiology, Biology, Chemistry
- Transfer Notes: The UCF Cardiopulmonary Sciences program maintains an active transfer program open only to Registered Respiratory Therapists (RRT) and registry eligible respiratory therapists (new respiratory care graduates from an accredited respiratory care program). This pro-
gram allows working respiratory care professionals to attend UCF and gain a baccalaureate degree in Cardiopulmonary Sciences. To facili-
tate this process, transfer-credit by examination is available for
Registered Respiratory Therapists for 26 credits of course work.
Credit will be awarded by the Cardiopulmonary Sciences faculty when
students demonstrate advanced knowledge and competencies
beyond the level required for entry into the profession. This may be
demonstrated by successful completion of the two part registry exam-
ination given by the National Board for Respiratory Care (NBRC).
Only graduates of an accredited institution and program are eligible
for the NBRC credentials. Students who successfully complete these
requirements will have validated the knowledge and clinical compet-
cencies and will be awarded credit in their final semester with grades
of “S” recorded in their transcripts.

Community College Equivalents
College Algebra (MAC 1105) or (higher level) 3 hrs
Statistics (STA 2023) or (higher level) 3 hrs
College Physics (PHY 2007L) or (PHY 3004L) or (PHY 3004L)
or higher level with labs 4 hrs
General Chemistry with Lab (CHM 1031L) or (higher level) 4 hrs
Biology I with Lab (BSC 1005L) or (higher level) 4 hrs
General Microbiology (MCB 2010C) or (MCB 2004C) or
(MCB 2020L) or (PHA 2751) or (BSL 2030C and
2040C) or (BSC 2093C and 2094C) or (BSC 1005 and
2006) replaces Anatomy and Physiology courses (ZOO 3733C and
PCB 3703C) 8 hrs

Tentative Course Schedule for Entering Freshmen

Freshmen Year
Fall 16
ENC 1101 3
CHM 1032 and lab 3/1
BSC 2010C 4
PSY 2012 or EUH 2001 or HUM 2230 or AMH 2020
ANT 2000 or SYG 2000
HSC 2000 2
Spring 16
ENC 1102 3
MCB 2004C 4
MAC 1105 3
EUIH 2000 or HUM 2230 or AMH 2010
MAC 1114 3

Sophomore Year
Fall 14
PHY 2053C 4
ZOO 3733C 4
EUIH 2001 or HUM 2230 or AMH 2020
STA 2023 3
Spring 13
PCB 3703C 4
SPC 1600 3
ECO 2013 or POS 2041 3
one course: ARH 2050
ARH 2051, MUL 2010, THE1020, REL 2300, PHI 2010,
LIT 2110, LIT 2120
STA 2023 3

Junior Year
Fall 16
RET 3026C 4
HSC 2593 3
HSC 4550 3
HSC 4148 2
RET 3484c 4
Spring 14
RET 4503 3
RET 4244 3
RET 3174 3
RET 3483 3
HSC 4149 2

Summer 12
RET 4414C 4
RET 5264C 3
RET 5974 5

Senior Year
Fall 17
RET 4284 3
RET 3875 8
RET 4715 3
RET 4034 3
Spring 16
RET 4285 3
RET 4876 8
RET 4934 2
RET 4536 3

Minor none

Accreditation
Upon completion of the undergraduate program, the baccalaureate
individual will possess basic and advanced level skills and should be
prepared to assume future leadership roles within the profession.
Graduates will be prepared to become Registered Respiratory
Therapists through licensure by the State of Florida.
The Cardiopulmonary Sciences program is accredited by the
Committee on Accreditation for Respiratory Care in conjunction with
CAAHEP of the American Medical Association.
5. Directed Electives (3 hrs)
Course will be selected with the aid of a departmental advisor and approved in advance by the department chair. Course will be selected from the physical, biological, mathematical sciences and/or related disciplines, and normally will be at the 3000/4000 level. Co-op courses cannot be used in the major.

6. Departmental Exit Requirements
- Complete a minimum of 24 Chemistry credits at UCF
- Achieve at least a “C” GPA (2.0) in all UCF Chemistry courses and an overall 2.0 GPA in all Chemistry courses used to satisfy this requirement
- Grades earned in CHM 4914C, CHM 4930 and CHM 4912 will not be applied in the determination of the Chemistry GPA
- Students are required to take a nationally normed test in chemistry during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring. The student must achieve a satisfactory score on the exam.
- Students are required to submit an undergraduate research report for evaluation no later than the date posted by the Department in the semester they intend to graduate. The report must meet or exceed departmental requirements established for the report.
- Computer Competency met by STA 1060C, a computer science course, or by departmental assessment
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation: none

8. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed.

Note: Chemistry majors may count MAC 2313, CHM 2211, and PHY 2049 as upper division credit.
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours
Related Programs: Forensic Science, Molecular and, Microbiology, Science Education
Related Minors: Chemistry, Molecular and Microbiology

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- CHM 2045*: may use CHM 1040 plus CHM 1041
- PHY 2048 & Lab: may use PHY 2053C. However PHY 2048 & Lab is required and will still have to be taken.
- PHY 2049* & Lab: may use PHY 2054C. However PHY 2049 & Lab is requir126ed and will still have to be taken
- Physics: CPP requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, both Physics courses and Organic Chemistry classes are required for graduation.
UCF Degree Programs

A. Communication Foundations 9 hrs
   1. ENC 1101 & ENC 1102
   2. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs
   1. Select two courses from Historical Foundations
   2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120

C. Mathematical Foundations 7 hrs
   1. Calculus with Analytic Geometry I
   2. Calculus with Analytic Geometry II
   3. Calculus with Analytic Geometry III

D. Science Foundations 7 hrs
   1. Select MAC 2311 (PR: MAC 1144)
   2. Select STA 3032 (PR: MAC 2312)

E. Mathematical Foundations 7 hrs
   1. Prefer ECO 2013 or ECO 2023.

F. English Foundations 7 hrs
   2. Prefer GEO 1200

2. Common Program Prerequisites (CPP’s) (19 hrs)
   These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHM 2045C/45L Chemistry Fundamentals I with Lab 4 hrs
MAC 2311 Calculus with Analytic Geometry I 4 hrs
MAC 2312 Calculus with Analytic Geometry II 4 hrs
MAC 2313 Calculus with Analytic Geometry III 4 hrs
MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I GEP 4 hrs
ENC 1101 Composition I GEP 1
ENC 1102 Composition II GEP 1
Humanities Courses GEP 1
Social Science Courses GEP 1

3. Courses Required for the Major (62 hrs)
   The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1007C Engineering Concepts & Methods 1 hr
CHM 2046 Chemistry Fundamentals II 3 hrs
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics 3 hrs
EGN 3331 Mechanics of Materials 3 hrs
EGN 3343 Thermodynamics 3 hrs
EGN 3385 Structure & Properties of Materials 3 hrs
EGN 3371 Principles of Electrical Engineering 3 hrs
EGN 3613 Engineering Economic Analysis 2 hrs
CCE 4003 Intro to the Construction Industry 3 hrs
ENV 3001 Intro to Environmental Engineering 3 hrs
STA 3023 Probability & Statistics for Engineers GEP 3 hrs
CEG 4101C Geotechnical Engineering I 4 hrs
CES 4100C Structural Analysis I 4 hrs
CES 4065 Steel Structures or CES 4702 Reinforced Concrete Structures 3 hrs
CWR 3201 Engineering Fluid Mechanics 3 hrs
CWR 4101C Hydrology 3 hrs
CWR 4203C Hydraulics 3 hrs
ENV 4561 Environmental Engnr-Process Design 4 hrs
SUR 2101C Surveying 3 hrs
TTE 4004 Transportation Engineering 4 hrs

4. Approved Technical Electives (3 hrs)
   Technical electives are available in the BSCE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)
   - Approved CE Project Design Course I 3 hrs
   - Approved CE Project Design Course II 3 hrs
   - Civil engineering students must take the Fundamentals Exam during their Senior year.
   - Earn a minimum graduating GPA of 2.25 in the major courses

6. Foreign Language Requirements (0-8 hrs)
   Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

7. University Minimum Graduation Requirements
   - A 2.0 UCF GPA.
   - 60 semester hours earned after any CLEP award.
   - 48 semester hours of upper division credit completed.
   - 30 of the last 36 hours of course work must be completed in residency at UCF.
   - 25% of course work must be completed in residency at UCF.
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
   - Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Environmental Engineering
Related Minors: Mathematics, Engineering Leadership & Management.
Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen
The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Civil Engineering - 128 semester hours required

FIRST YEAR
   Fall  14 hrs 1 Spring  15 hrs 1
   *ENC 1101 English Comp I 3 *ENC 1102 English Comp II 3
   *MAC 2311 Calc w/Analy Geo I 4 *MAC 2312 Calc w/Analy Geo II 4
   *SPC 1016 Tech Presentations 3 *PHY 2048/48L Phys Eng I w/lab 4
   *ECO 2023 Microeconomics 3 *ANT/PSY/SYG or 3
   *GEO 1200 Geog 3 *GEO GLY/BSC 3
   *ENC 1101 English Comp I 3 *ENC 1102 English Comp II 3
   CHM 2046 Chemistry Fundamentals II 3 *MAC 2312 Calc w/Analy Geo II 4
   MAC 2311 Calculus with Analytic Geometry I 4
   MAP 2302 Differential Equations 3
   PHY 2048/48L Physics for Engineers & Scientists I GEP 4
   PHY 2049/49L Physics for Engineers & Scientists II 4
   ENC 1101 Composition I GEP 1
   ENC 1102 Composition II GEP 1
   Humanities Courses GEP 1
   Social Science Courses GEP 1
   Humanities or Social Sciences GEP 1
   EGN 1006C Intro To Eng Prof 1 EGN 1007C Eng Con & Meth 1

SECOND YEAR
   Fall  16 hrs 1 Spring  16 hrs 1
   *MAC 2311 Calc w/Analy Geo III 4 *MAP 2302 Diff Equations 3
   *CHM 2045C/45L Chem Fund I 3 *CHM 2046 Chem Fund II 3
   *HUM/AMH/EUH - I 3 *PHY 2049/L Phys Eng II w/lab 4
   *HUM/AMH/EUH - II 3
   EGN 3310 Eng Anal - Statics 3
   EGN 3343 Thermodynamics 3
   EGN 3371 Principles of Electrical Engineering 3
   EGN 3613 Eng Econ Anal 2
   EGN 3613 Eng Econ Anal 3
   EGN 3321 Engr Anal - Dynamics 3
   Summer  9 hrs
   STA 3023 Prob/Stats for Engrs 3
   EGN 3321 Mech of Materials 3
   EGN 3361 Intro to Environ Eng 3

THIRD YEAR
   Fall  16 hrs 1 Spring  16 hrs 1
   CWR 3201 Eng Fluid Mechanics 3
   CCE 4003 Intro to Const Indus 3
   ENV 3001 Intro to Environ Eng 3
   EGN 3321 Linear Algebra 3
   EGN 3343 Thermodynamics 3
   CES 4100C Geotechnical Engineering II 4
   CES 4100C Structural Analysis II 4
   CES 4100C Geotechnical Engineering II 4
   CWR 3201 Eng Fluid Mechanics 3
   CCE 4003 Intro to Const Indus 3
   ENV 3001 Intro to Environ Eng 3
   EGN 3321 Linear Algebra 3
   EGN 3343 Thermodynamics 3
   CES 4100C Structural Analysis I 3
   *SUR 2101C Surveying 3
   TTE 4004 Transportation Engineering 4

FOURTH YEAR
   Fall  14 hrs 1 Spring  12 hrs
   ENV 4561 Env Eng-Proc Design 4
   CES 4702 Reinforced Concrete Strctrs 3
   CEG 4101C Geotechnical Engr 4
   CES 4605 Steel Structures 3
   Technical Elective 3
   Approve Project Design Course 3
   Approved Project Design Course 3
   CEG 4101C Geotechnical Engr 3
   CES 4605 Steel Structures 3
   Technical Elective 3
   Approved Project Design Course 3
   *ANT/PSY/SYG or *GEO/GLY/BSC 3

Note: Course numbers with asterisks (*) indicate approved technical electives.
Prerequisites
Systems should complete the GEP and the Common Program to UCF from within the Florida State University/Community College.

1. The UCF GEP and the allowable substitutions detailed in paragraphs can. Engineering students should closely study the requirements of
The UCF General Education Program (GEP) is described in this catalog. Academic progress is being maintained.

2. Each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour for each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

BS to PhD Program
The Civil Engineering program offers the opportunity for exceptionally well qualified undergraduates to enter directly into the PhD program after completion of an appropriate BS degree. This option allows outstanding undergraduates to begin planning a research program with a specific faculty advisor even before finishing the BS, and may allow completion of the PhD in a shorter time period than by taking a separate Master's followed by the PhD.

CIVIL ENGINEERING - CONSTRUCTION ENGINEERING CONCENTRATION (B.S.C.E.)
College of Engineering and Computer Science
Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl, E-mail: cpohl@mail.ucf.edu
Construction Program Director: Amr A. Oloufa, Ph.D., P.E. E-mail: aoloufa@mail.ucf.edu

Admission Requirements:
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

Degree Requirements
Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students
The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations
1. ENC 1101 & ENC 1102 9 hrs
2. Prefer SPC 1016
B. Cultural and Historical Foundations
1. Select two courses from Historical Foundations 9 hrs
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHIL 2010, LIT 2110, or LIT 2120
C. Mathematical Foundations
1. Select MAC 2311 (PR: MAC 1214) 7 hrs
2. Select STA 3032 (PR: MAC 2312)
D. Social Foundations
1. Prefer ECO 2013 or ECO 2023 6 hrs
2. ANT 2000, PSY 2012, or PSY 3000
E. Science Foundations
1. Select PHY 2048/48L (PR: MAC 2311) 7 hrs
2. Prefer GEO 1200

2. Common Program Prerequisites (CPP's)
These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHM 2045/45L Chemistry Fundamentals I with Lab 4 hrs
MAC 2311 Calculus w/Analytic Geometry I GEP
MAC 2312 Calculus w/Analytic Geometry II 4 hrs
MAC 2313 Calculus w/Analytic Geometry III 4 hrs
MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I GEP
PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP
Humanities Courses GEP
Social Science Courses GEP

3. Courses Required for the Major
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below.

Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1007C Engineering Concepts & Methods 1 hr
CHM 2046 Chemistry Fundamentals II 3 hrs
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics 3 hrs
EGN 3331 Mechanics of Materials 3 hrs
EGN 3613 Engineering Economic Analysis 2 hrs
ENV 3001 Intro to Environmental Engineering 3 hrs
STA 3032 Probability & Statistics for Engineers 3 hrs
CCE 4613 Mech & Elec Sys for Buildings 4 hrs
CCE 4402 Construction Equip & Productivity 3 hrs
EGN 3363 Struc & Prop of Materials 3 hrs
CCE 4004 Construction Methods 3 hrs
CCE 4034 Construction Estimating & Scheduling 3 hrs
CCE 4003 Intro to the Construction Industry 3 hrs
CEG 4101C Geotechnical Engineering I 4 hrs
CES 4100C Structural Analysis I 4 hrs
CES 4702 Reinforced Concrete Structures 3 hrs
CRC 3202 Engineering Fluid Mechanics 3 hrs
ACG 2071 Managerial Accounting 3 hrs
SUR 2101C Surveying 3 hrs
TTE 4004 Transportation Engineering 4 hrs

4. Approved Engineering Science Electives
Engineering Science electives are available in the BSCE program to address specific student interests in a variety of technical areas. Students are encouraged to take either EGN 3343 (Thermodynamics) or EGN 3373 (Principles of Elec Engr) as the technical elective. Other courses from the list of approved technical electives may be used with the approval of the department advisor. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements

CCE 4810C Construction Engr. Design Project 3 hrs
CEG 4801C Geotechnical Engr. Design 3 hrs
Civil engineering students must take the Fundamentals Exam during their Senior year.
Earn a graduating GPA of 2.25 in the major courses from item 3. above, the technical electives in item 4. above, and the approved CE project design courses.

6. Foreign Language Requirements
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

7. University Minimum Graduation Requirements

A 2.0 UCF GPA.
60 semester hours earned after any CLEP awarded.
48 semester hours of upper division credit completed.
30 of the last 36 hours of course work must be completed in residency at UCF.
25% of course work must be completed in residency at UCF.
A maximum of 45 hours of extension, correspondence, CLEP,
Credit by Exam, and Armed Forces credits permitted

- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Environmental Engineering.

Related Minors: Mathematics, Engineering Leadership & Management.

Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Civil Engineering - Construction Engineering Option

128 semester hours required

FIRST YEAR

Fall 14 hrs 1  
- ENC 1101 English Comp I 3  
- MAC 2311 Calc w/Analy Geo I 4  
- MAC 2312 Calc w/Analy Geo II 4  
- EGN 1006C Intro To Eng Prof 1  
- MAP 2302 Diff Equations 3

Spring 15 hrs 1  
- ENC 1102 English Comp II 3  
- MAC 2304 Calc II 4  
- PHY 2088/L Phys Engr II w/lab 4  
- EGN 1007C Eng Con & Meth 1  
- EGN 1007C Eng Con & Meth 1

SECOND YEAR

Fall 16 hrs 1  
- MAC 2313 Calc w/Analy Geo III 4  
- CHM 2045C/L Chem Funds I 4  
- HUM/AMH/EUH - I 3  
- EGN 3310 Engr Anal - Statics 3  
- EGN 3613 Eng Econ Anal 2

Spring 16 hrs 1  
- MAC 2302 Diff Equations 3  
- CHM 2046 Chemistry Funds II 3  
- *HUM/AMH/EUH - II 3  
- EGN 3331 Mech of Materials 3  
- EGN 3006C Intro To Eng Prof 1

Summer 9 hrs 1  
- *ANT/PSY/SYG 3  
- *GEO/GYB/EC 3  
- STA 3032 Prob/Stats Engineers 3  
- ENV 3001 Intro to Environ Eng 3

THIRD YEAR

Fall 16 hrs 1  
- EGN 3232 Engr Anal-Dynamics 3  
- CCE 4003 Intro Constr. Industry 4  
- CES 4100C Structural Analysis I 3  
- *SUR 2101C Surveying 3  
- EGN 3365 Struc & Prop of Mat 3

Spring 15 hrs 1  
- Engineering Science Elective 2  
- CES 4702 Reinforced Concrete Structures 3  
- CCE 4004 Construct Methods 3  
- *Cultural/Historical Elective 3  
- CWR 3201 Eng Fluid Mechanics 3

FOURTH YEAR

Fall 15 hrs  
- TTE 4004 Transportation Eng 4  
- CCE 4034 Constrc Est & Sched 3  
- CEG 4101C Geotechnical Engr 4  
- CCE 4813 Mech & Elec Bldgs 4

Spring 13 hrs  
- CCE 4810C Constr Design Project 4  
- CCE 4402 Constr Equip & Prod 3  
- CEG 4801C Geotech Engr Design 3  
- ACG 2071 Prim Mgr Accounting 3

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Engineering Science Elective may be satisfied by taking either EGN 3343 or EGN 3373, other courses must be approved by Program Director.
3. Either CES 4605 Steel Structures or CES 4702 Reinforced Concrete Structures are required for all students.
4. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural Historical Foundations 9 hrs
   - C. Mathematical Foundations 6 hrs
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs

2. Core Requirements (60 hrs)
   - DEP 2004 Developmental Psychology 3 hrs
   - SPA 3471 Communication Disorders in Literature and Media 3 hrs
   - SPA 3101 Physiological Bases of Speech and Hearing 3 hrs
   - SPA 3112 Basic Phonetics 3 hrs
   - SPA 3112L Basic Phonetics Lab 1 hr
   - LIN 3716 Language Development: Birth through 8yrs 3 hrs
   - SPA 3113 Speech Science I: Speech Production 3 hrs
   - SPA 3011L Speech Production Lab 1 hr
   - LIN 3717 Language Development: 9 though 18 yrs 3 hrs
   - SPA 3104 Neural Bases of Communication 3 hrs
   - SPA 3123 Speech Science II: Speech Perception 3 hrs
   - SPA 3123L Speech Perception Lab 1 hr
   - SPA 4476 Speech Disorders Across the Lifespan 3 hrs
   - SPA 4032 Audiology 3 hrs
   - SPA 4478 Multicultural Aspects: Communications Disorders and Differences 3 hrs
   - LIN 4711 Language Analysis 3 hrs
   - LIN 4711L Language Analysis Lab 1 hr
   - SPA 4400 Language Disorders Across the Lifespan 3 hrs
   - SPA 4321 Aural Habilitation-Rehabilitation 3 hrs
   - EAB 3703 Principles of Behavior Modification or 3 hrs
   - EEX 4601 Introduction to Behavior Management or 3 hrs
   - EEC 4604 Guidance of Young Children or 3 hrs
   - EDF 3307 Learning Environments and Guidance for Young Children or 3 hrs
   - SPA 3472 Guidance of Young Children w/Communicative Disorders 3 hrs
   - SPA 4550C Clinical Methods in Communicative Disorders 5 hrs
   - SPA 4052L* Undergraduate Clinical Practicum or 3 hrs
   - SPA 4048 Community Internship 3 hrs

3. Statistics Requirement (6 hrs)
   - Students have two options for completing this requirement:
     - Option 1: STA 2023 Statistical Methods I GEP and 3 hrs
UCF Degree Programs

STA 4163 Statistical Methods II or 3 hrs
Option 2:
STA 2014C Principles of Statistics (GEP) or 6 hrs
STA 2023 Statistical Methods I and 3 hrs
SPA 4XXX Res. Methods in Comm. Sciences & Disorders 3 hrs

5. Upper Division Restricted Electives (6 hrs)
An additional six credit hours of upper division course work in Communicative Disorders selected in consultation with the academic advisor.

6. Electives (6 hrs min)
B.A./B.S. Option.

 Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year in college.

 Students pursuing the B.S. degree must complete two upper division health science courses (six credit hours) approved by the Department.

7. Foreign Language Requirements
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation. ASL (American Sign Language) can be used to fulfill the foreign language admission requirement.

Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year. ASL I, II, and III can be used to fulfill this requirement.

8. Departmental Exit Requirements
Students must achieve a minimum grade of “C-” (1.75) in all required courses, restricted electives, and B.A./B.S. electives in the Department.

Students must also earn an overall minimum of 2.0 GPA in the courses used to satisfy the major.

9. University Minimum Exit Requirements (120 hrs)

 A 2.0 UCF GPA

 60 semester hours earned after CLEP awarded

 48 semester hours of upper division credit completed

 30 of the last 36 hours of course work must be completed in residence at UCF

 A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

 Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Health Services Administration, Physical Therapy, Psychology, Social Work, Exceptional Education

Related Minors: Exceptional Education, Aging Studies, Health Services Administration, Interpersonal Communication, Linguistics, Psychology

Transfer Notes:

 “D” (1.0) grades are not accepted

 Courses taken at community colleges do not substitute for Upper Division courses

 Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

 Students may take STA 2023 to fulfill the first part of the statistics requirement

Tentative Course Schedule for Entering Freshmen

Fall
ENC 1101 3
PSY 2012 or
PHL 2010 3
BSC 1005
One Course: ARH 2050 or ARH 2051, or MUL 2010, or THE 2000, or REL 2300, or PHY 2010, or Lit 2110, or Lit 2120
Elective 3

Sophomore Year
Fall
SPC 1600 or
EUF 2001 3

Spring
EUF 2001 or HUM 2230

Fall
EUF 2001 or HUM 2230

Spring
EUF 2001 or HUM 2230

EUF 2001 or HUM 2230

Fall
SPC 1600 or
EUF 2001

Spring
EUF 2001 or HUM 2230

or AMH 2020 3
MGF 1106 or MAC 1105
or EAB 3703 or EDF 3307
or EEX 4601
or EEC 4604 or SPA 3471
or EEC 4604 or SPA 3471

Foreign Lang. I (B.A.)
or Health Science (B.S.)

or Health Science (B.S.)

or Health Science (B.S.)

Ecole 3703 or EDF 3307
or EEX 4601
or EEC 4604 or SPA 3471
or EEC 4604 or SPA 3471

Fall
LIN 3716 or
SPA 3011 and SPA 3011L 4
ECO 2013 3
SPC 2010
Elective or STA 2023 3

Senior Year
Fall
SPA 4032 3
SPA 4400
SPA 4948
SPA 4550C

Spring
SPA 3471 3
SPA 4948
SPA 4550C

Spring
SPA 3471 3
SPA 4948
SPA 4550C

* Students must apply and be selected to enroll in SPA 4052L.

Note: Certification in speech-language pathology by the American Speech-Language-Hearing Association and licensure by the State of Florida Department of Health, Division of Medical Quality Assurance requires a master’s degree in Communicative Disorders. Minimum requirements for entry into the graduate program typically include at least a 3.0 GPA in the last 60 hours of undergraduate work in the major. Entry level positions to provide speech and language services are available in some Florida school districts. Under the 2/5 Rule, individuals employed in these positions have two years from the date of employment to enroll in a master’s program in Communicative Disorders and five years to complete the degree.

COMPUTER ENGINEERING (B.S.Cp.E.)

College of Engineering and Computer Science
Department School of Electrical and Computer Engineering & Computer Science

Harris Corp Engineering Ctr., Rm 245
407-823-2786, Fax: 407-823-5835,
http://www.cpe.ucf.edu

Brian Petrasko., E-Mail: petrasko@mail.ucf.edu

Admission Requirements:
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

Degree Requirements
Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for (36+2 hrs)

Engineering Students
The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations
1. ENC 1101 & ENC 1102
2. Prefer SPC 1016

B. Cultural and Historical Foundations
1. Select two courses from Historical Foundations
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120

C. Mathematical Foundations
1. Select MAC 2311 (PR: MAC 1144)
2. Select STA 3032 (PR: MAC 2312)
D. Social Foundations 6 hrs
1. Prefer ECO 2013 or ECO 2023.

E. Science Foundations 7 hrs
1. Select PHY 2048/2048L (PR: MAC 2311)
2. ANT 2111, BSC 1050, BSC 1050, GLY 1030, GEO 1200, or MCB 1310

2. Common Program Prerequisites (CPP’s) (19 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs.

Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

3. Courses Required for the Engineering Core (14 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

4. Courses Required for the Major (45 hrs)

Fall 17 hrs 1 Spring 15 hrs 1
- EEL 3006C Intro to the Engineering Profession 1 hr
- EEL 3007C Engineering Concepts & Methods 1 hr
- EEL 3310 Engineering Analysis - Statics 3 hrs
- EEL 3321 Engineering Analysis - Dynamics or
- EEL 3339 Thermo-Fluids-Heat Transfer 3 hrs
- STA 3023 Probability & Statistics for Engineers 3 hrs
- PHY 3101 Physics for Engineers & Scientists I 3 hrs
- MAC 2313 Calculus with Analytic Geometry I 4 hrs
- MAC 2311 Calculus with Analytic Geometry II 4 hrs
- MAP 2302 Differential Equations 3 hrs
- PHY 2048/48L Physics for Engineers & Scientists I or
- PHY 2048/49L Physics for Engineers & Scientists II 4 hrs
- ENC 1101 Composition I 3 hrs
- ENC 1102 Composition II 3 hrs
- Humanities Courses 3 hrs
- Social Science Courses 3 hrs
- Humanities or Social Sciences GEP 3 hrs

5. Approved Technical Electives (6 hrs)
Technical electives are available in the BSCpE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. Departmental Graduation Requirements (6 hrs)
- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements
- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs


Transfer Notes:
- Courses transferred from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen
The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

UCF Degree Programs
on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 2006C and EGN 1007C are required courses for incoming freshmen only.
The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

COMPUTER ENGINEERING - SOFTWARE ENGINEERING CONCENTRATION (B.S.Cp.E.)
College of Engineering and Computer Science
Department School of Electrical and Computer
Engineering & Computer Science,
Harris Corp Engineering Ctr, Rm 245, 407-823-2549,
407-823-2786, Fax: 407-823-5835,
http://www.cpe.ucf.edu
Brian Petrasko., E-Mail: petrasko@mail.ucf.edu

Admission Requirements:
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

Degree Requirements
Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students
The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations 9 hrs
1. ENC 1101 & ENC 1102
2. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs
1. Select two courses from Historical Foundations
2. ARH 2050, ARH 2051, MUL 210, THE 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120

C. Mathematical Foundations 7 hrs
1. Select MAC 2311 (PR: MAC 1144), or MAC 2312
2. Select STA 2023 (PR: MAC 2312)

D. Social Foundations 6 hrs
1. Prefer ECO 1003 or ECO 2023
2. ANT 2011, BSC 1005, BSC 1050, or MCB 1310

E. Science Foundations 7 hrs
1. Select PHY 2048/48L (PR: MAC 2311)
2. ANT 2011, BSC 1005, BSC 1050, or MCB 1310

2. Common Program Prerequisites (CPP's) (19 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs.

Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440 Fundamentals of Chemistry for Eng
4 hrs

MAC 2311 Calculus with Analytic Geometry I
GEP

MAC 2312 Calculus with Analytic Geometry II
4 hrs

MAC 2313 Calculus with Analytic Geometry III
4 hrs

MAP 2302 Differential Equations
3 hrs

PHY 2048/48L Physics for Engineers & Scientists I
GEP

PHY 2049/49L Physics for Engineers & Scientists II
4 hrs

ENC 1101 Composition I
GEP

ENC 1102 Composition II
GEP

Humanities Courses
GEP

Social Science Courses
GEP

3. Courses Required for the Engineering Core (14 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4. below technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1007C Engineering Concepts & Methods 1 hr
EGN 2310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics or
EGN 3358 Thermo-Fluids-Heat Transfer 3 hrs
EGN 3420 Engineering Analysis 3 hrs
STA 3032 Probability & Statistics for Engineers 3 hrs
PHYS 3101 Physics for Engineers & Scientists II 3 hrs

4. Courses Required for the Major (45 hrs)

EEL 3004 Electrical Networks 3 hrs
EEL 3123C Networks and Systems 4 hrs
EEL 3306 Semiconductor Devices I 3 hrs
EEL 3307C Electronics I 4 hrs
EEL 3342C Intro to Digital Circuits & Systems 3 hrs
EEL 3567 Linear Control Systems 3 hrs
EEL 3801C Intro to Computer Engineering 3 hrs
EEL 4767C Computer System Design I 4 hrs
EEL 4768C Computer System Design II 4 hrs
EEL 4781 Computer Comm Networks 3 hrs
EEL 4851C Engineering Data Structures 4 hrs
EEL 4882 Engineering System Software 3 hrs
EEL 4894C Engineering Software Design 4 hrs

5. Approved Software Technical Electives (6 hrs)
Technical electives are available in the BSCpE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. Departmental Graduation Requirements (6 hrs)
- EEL 4914 Senior Design I 3 hrs
- EEL 4915L Senior Design II 3 hrs
- CECEs encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements
- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper-division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Tentative Course Schedule for Entering Freshmen
The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

### Computer Engineering

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td></td>
<td>14 hrs</td>
<td>12 hrs</td>
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</table>

- *Cultural Foundations* 3
- *ENC 1102 English Comp I* 3
- *ENG 1007C Eng Conc & Meth* 1
- *MAC 2312 Calc with Analy Geo II* 4
- *PHYS 2048/L Phys for Eng/Sci I* 4
- *MAC 2313 Calc with Analy Geo III* 4
- *MAC 2318 Engr Anal-Statics* 3
- *EEL 3801C Intro Cmptr Engr 2* 3
- *EEL 3004 Electrical Networks* 3
- *EEL 3342C Intro Dig Circ/ Sys* 3
- *EEL 3306 Semicon'dr Dev I* 3
- *EEL 3370C Electronics I* 4
- *EEL 4851C Eng Data Struc* 4
- *EEL 3007C Networks and Systems* 4
- *EEL 3657 Linear Cont Sys* 3
- *EEL 3476C Cmp Sys Des'n I* 4
- *EEL 3882 Engng Sys S/W* 3
- *PHY 2048/L Phys for Eng/Sci I* 3
- *ENG 3356 Ther-Flds-Ht Tran* 3
- *PHY 2013 Physics for Eng/Sci I* 3
- *EEL 4851C Engr Anal-Dynamics* 3
- *EEL 3801C Intro Cmptr Engr 2* 3
- *EEL 4851C Engr Anal-Dynamics* 3
- *EEL 3370C Electronics I* 4

**SECOND YEAR**

<table>
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<th>Semester</th>
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- *MAC 2313 Calc with Analy Geo III* 4
- *CET 3103 Intro Engr 3* 3
- *EEL 3370C Electronics I* 4
- *EEL 3657 Linear Cont Sys* 3
- *EEL 3476C Cmp Sys Des'n I* 4
- *EEL 3882 Engng Sys S/W* 3

**THIRD YEAR**

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<thead>
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<th>Semester</th>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
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<td>14 hrs</td>
<td>14 hrs</td>
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</table>

- *EEL 3306 Semicon'dr Dev I* 3
- *EEL 3370C Electronics I* 4
- *EEL 3657 Linear Cont Sys* 3
- *EEL 3476C Cmp Sys Des'n I* 4
- *EEL 3882 Engng Sys S/W* 3
- *EEL 3657 Linear Cont Sys* 3
- *EEL 3476C Cmp Sys Des'n I* 4
- *EEL 3882 Engng Sys S/W* 3

**FOURTH YEAR**

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<th>Semester</th>
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<tbody>
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</table>

- *Social Foundations I* 3
- *COT 4210 Discrete Comp Structures* 3
- *COP 3402C Systems Software* 3
- *COT 3100C Intro to Discrete Structures* 3
- *COT 3100C Intro to Discrete Structures* 3
- *COP 3402C Systems Software* 3
- *COT 3960 Foundation Exam (PR: COT 3100 & COP 3502)* 0 hrs

**Notes:**

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.
4. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.
5. Students must earn at least a 2.0 in each course in 2-6
6. Students are required to consult with a departmental advisor and file a plan of study after passing the foundation exam
7. Students must meet a Residency Requirement of at least 24 semester hours of regularly scheduled 3000-5000 level courses taken from Computer Science at UCF
8. 18 of the 24 Residency hours must be at the 4000-5000 level
9. Students must maintain at least a 2.5 GPA in the following courses. Only the highest grade is used in the calculation.
10. Must be offered by Computer Science at UCF. At most 3 hours of independent study allowed. No internships or cooperative education credits are allowed. Approved IT courses offered by Computer Science may also be used toward this requirement (3 credits).
11. Must include COT 4810 (Topics in Computer Science). Must be offered by Computer Science at UCF. At most 3 hours of independent study allowed. No internships or cooperative education credits are allowed. Approved courses are offered by Computer Science.
12. 4000-5000 level mathematics or statistics courses from: STA, MAP, MAA, MAD, MAS prefixes and MAC 2313, MAP 2302, MAS 3105, and MAS 3106. No independent study hours, internship, or cooperative education hours are allowed.
9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Computer Engineering, Information Technology, Management Information Systems
Related Minors and Certificates: Information Technology, Computer Science, Intelligent Robotic Systems, Secure Computing and Networks
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

FIRST YEAR

Fall 12 hrs
ENC 1101 English Comp I 3
SPC 1016 Tech Presentations 3
COT 3100 Intro. Discrete Structures 3
COP 3223 C Programming 3
Summer 7 hrs
MAC 2312 Calc with Analy Geo II 4
COP 3330 Intro to OOP/Java 3

SECOND YEAR

Fall 14 hrs
COP 3402 Systems Software 3
COP 3503C Comp Science II 4
PHY 2048 Physics for Sci w/lab 4
Cultural Foundations 3
Spring 14 hrs
ENC 1102 English Comp II 3
MAC 2311 Calc with Analy 4
COP 3502 Comp Science I 3
CDA 3103C Comp Organization 4
COT 3960 Foundation Exam 0

Summer 6 hrs
STA 2023 Statistical Methods 3
Social Foundations 3

THIRD YEAR

Fall 13 hrs
CDA 4150 Computer Architecture 3
COP 4020 Programming Langs 3
BSC 2010C Gen Biology I 4
Social Foundations 3
Spring 13 hrs
COP 4000 Operating System 3
CHM 2045 Chemistry I 4
MathStat Restricted Elective 3
CS Elective 3

Summer 3 hrs
COT 4210 Discrete Structure II 3

FOURTH YEAR

Fall 12 hrs
COT 4810 Topics in CS 3
CS Elective 3
Historical Foundations 3
Free Elective 3
Spring 12 hrs
COP 4020 Programming Langs 3
CDA 4103 Operating System 3
Mult-Cultural Elective 3
MathStat Restricted Elective 3

CRIMINAL JUSTICE (B.A./B.S.)
College of Health and Public Affairs
HPA1 311 407-823-2603
http://www.cohpa.ucf.edu/crim.jus/
Undergraduate Program Coordinator: Dr. Mary Ann Eastep
E-mail: cjadvise@mail.ucf.edu
Admission Requirements none
Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 80 hours
- Students must earn a minimum 2.0 GPA in the core requirements and the restricted electives.

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
Select MGF 1106 Finite Math
Select CGS 1060C, STA 1060C, or STA 2014C
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Core Requirements (18 hrs)
CCJ 3024 Criminal Justice System 3 hrs
CCJ 3014 Crime in America 3 hrs
CJL 3510 Prosecution and Adjudication 3 hrs
CRC 3010 Corrections and Penology 3 hrs
CJE 4014 Police and Society 3 hrs
CCJ 4701 Research Methods in Criminal Justice 3 hrs

4. Upper Division Restricted Electives (42 hrs)
- 27 additional semester hours of upper division criminal justice course work. Seniors can satisfy up to six hours of this requirement with internship and up to six hours with directed independent study; however, the combination of these non-class options shall not exceed nine hours. Program standards must be met to be eligible for either internships or independent study credit.
- 15 additional semester hours of supporting courses to be selected from an approved list provided by the Department; These courses may vary from student to student depending upon individual needs or objectives, but include selected courses from public administration, legal studies, sociology, statistics, and psychology. The supporting course requirements may also be met by completing a minor from another program approved by the Department with a minimum of 15 semester hours credit.

5. Upper Division Unrestricted Electives none

6. Departmental Exit Requirements (120 hrs)
Students must take a minimum of 36 hours from the department to obtain the UCF degree in Criminal Justice.

7. Foreign Language Requirements
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at college level. The foreign language credits may be used toward the 15 hour supporting course requirement.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours
Related Programs: Legal Studies
Related Minors: Legal Studies, Public Administration, Psychology
Transfer Notes: “D” (1.0) grades are not accepted.

Tentative Course Schedule for Entering Freshmen
Students must earn at least a "C" (2.0) in each required course.

**Degree Requirements**

- Admission Requirements: None
- Core Requirements: None
- Residency requirement consists of at least 24 hours of regularly scheduled upper division course work taken at UCF
- Co-op or internship credits are not permitted in this major without prior, written permission.

**1. UCF General Education Program** (36 hrs)
- A. Communication Foundations: 9 hrs
- B. Cultural and Historical Foundations: 9 hrs
  - Take one course from 1.B.1 list
  - Select ARH 2050 or DIG 3485
  - If Digital Interactive Systems take ARH 2050 or MUL 2010
  - Take one course from either 1.B.1 or 1.B.2

**2. School of Film and Digital Media Common Core** (15 hrs)
- DIG 3001* Digital Media Principles
- FIL 1007 Foundations of Story
- FIL 1008 Cinematic Expression/Aesthetics
- FIL 2107 Script Analysis
- FIL 2224C Foundations of Production

**3. Specialization**

Choose one of the following 2 areas:

**Visual Language (B.A.)** (60 hrs)
This specialization concerns how to tell stories and communicate using the visual language of the moving image, animation, and cinematic visual effects.

**3A: Visual Language – Program Core:** (15 hrs)
- ARH 2050 History of Western Art I
- ART 2300C Drawing Fundamentals I
- ART 2301C Drawing Fundamentals II
- COP 2500C Concepts in Computer Science
- DIG 3485 Visual Language of the Moving Image
- DIG 3489C Computers as Medium
- DIG 3525 Digital Media Production I
- MAC 1105 College Algebra

* See transfer notes for possible substitutions.

**3B: Visual Language - Basic Concentration:** (15 hrs)
- Note: Admission to all courses after DIG 3485 is dependent on the student's achieving an 'A' or 'B' in DIG 3001 and an 'A' in the Core course DIG 3485: Visual Language of the Moving Image.
- DIG 3355 Artificial Environments & Effects
- DIG 3362 Artistic Characters
- DIG 3430 Digital Storytelling & Visual Develop
- DIG 3524 The Production Process
- DIG 4204 Generating and Manipulating Digital Imagery

**3C: Visual Language - Advanced Concentration:** (25 hrs)
- Note: Admission to the Advanced Concentration is dependent on a portfolio review by faculty.
- Choose ten seven of the following courses:
  - DIG 4206C New Imagery in Motion Workshop
  - DIG 4325C Look Modeling Workshop
  - DIG 4360C Computer Animation
  - DIG 4369C Artificial Characters Workshop
  - DIG 4451C Visual Storytelling & Visual Dev Workshop
  - DIG 4522L Digital Media Service
  - DIG 4524L Digital Media Project I
  - DIG 4526C Digital Media Production II
  - IDS 4786C Production Software
  - IDS 4703 Digital Media Project II

**Digital Interactive Systems (B.A.):** (60 hrs)
- Note: Admission to all courses after DIG 3001 is dependent on the student's achieving an 'A' or 'B' in DIG 3001.

**3A: Digital Interactive Systems Program Core:** (21-22 hrs)
- COP 2500C Concepts in Computer Science
- DIG 3480C Computers as Medium
- DIG 3489C Visual Language of the Moving Image
- DIG 3525 Digital Media Production I
- DIG 3821 Creative Digital Problem Solving
- DIG 3831 User Centered Design
- DIG 3XXX Information Management and Authorship
- DIG 3XXX Writing for Digital Media
MAC 1105  College Algebra  GEP

3B: Digital Interactive Systems Basic Concentration:  (15 hrs)
DIG 3135C  Digital Imagery  3 hrs
DIG 3296C  Assembling Digital Media  3 hrs
DIG 3XXXC  Digital Media Audio  3 hrs
DIG 4716L  Internet Interaction  3 hrs
DIG 4921C  E-Commerce I  3 hrs
FIL 3625  Interactive Entertainment  3 hrs

3C: Digital Interactive Systems Advanced Concentration:  Select any seven of the following courses  (20 hrs)
DIG 3450C  Interactive Performance I  3 hrs
DIG 3855  Converging Media  3 hrs
DIG 4324  Modeling for Real-time Systems II  3 hrs
DIG 4455C  Interactive Performance II  3 hrs
DIG 4526C  Digital Media Production II  3 hrs
DIG 4640  Autonomous Media  3 hrs
DIG 4641  Creative Digital Devices  3 hrs
DIG 4713C  Game Design  3 hrs
DIG 4715C  Game Engines  3 hrs
DIG 4780  Modeling for Real-time Graphics  3 hrs
DIG 4922  Media for E-Commerce II  3 hrs
EME 5050  Technology Integration  3 hrs
FIL 3297  Sound Design I  3 hrs
FIL 3625  Interactive Entertainment  3 hrs
FIL 4212C  Sound Design II  3 hrs
IDS 3701C  Internet Software Design  3 hrs
IDS 4703  Digital Media Project 2  3 hrs
IDS 5136C  Interactive Media Design  3 hrs
Or - any 3000 or 4000 level courses included in another Digital Media Concentration or any other 3000 or 4000 level IDS/DIG Digital Media course.

4. Capstone Experience  (4 hrs)
DIG 3035L  Digital Media Workplaces  1 hr
and
DIG 4522L  Digital Media Service  3 hrs
or
DIG 4523L  Digital Media Project I  3 hrs

5. Foreign Language Requirements  (0-8 hrs)
BA requirements:
Admission:  Met by graduation requirement.
Graduation:  Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies.  Standardized examinations for foreign languages may be used to meet the requirement.

6. Electives  (variable)
Electives will consist of 3000 and 4000-level courses as approved by the student’s advisor.  These electives may include IDS 4703 Digital Media Project 2, subject to acceptance in the project.

7. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

8. Total Semester Hours Required  120 hours

Transfer Notes:
- Grades less than “C” (2.0) are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit.  The student must provide all supporting information.

EARLY CHILDHOOD EDUCATION
(PRE-KINDERGARTEN - PRIMARY PK- 3) (B.S.)

College of Education
Department of Child, Family, and Community Sciences, ED 209
http://pegasus.cc.ucf.edu/~eceucf

Program Coordinator:  Lynn Hartle (until August 2006)
ED 206, 407-823-0045
E-mail: ece@mail.ucf.edu

Admission Requirements:
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses
- Meet any special departmental requirements

Degree Requirements:
- Students should see their assigned advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours

1. UCF General Education Program  (36 hrs)
A. Communication Foundations  (9 hrs)
  ENC 1101  Composition I  3 hrs
  ENC 1102  Composition II  3 hrs
  Select SPC 1600  Fundamentals of Oral Communication  3 hrs
B. Cultural-Historical Foundations*  (9 hrs)
  Select AMH 2020  U.S. History 1877-Present  3 hrs
  Select AMH 2090  U.S. History 1492-1877  3 hrs
  Select PHI 2010  Introduction to Philosophy  3 hrs
C. Mathematical Foundations*  (6 hrs)
  Select MGF 1106  Finite Mathematics  3 hrs
Select one:
  STA 1060C  Basic Statistics using MS Excel  3 hrs
  STA 2014C  Principles of Statistics  3 hrs
D. Social Foundations  (6 hrs)
  Prefer POS 2041  American National Government  3 hrs
  Select PSY 2012  General Psychology  3 hrs
E. Science Foundations  (6 hrs)
  Prefer PSC 1121  Physical Science  3 hrs
  Select one:
    ANT 2511  The Human Species or
    BSC 1005  Biological Principles  3 hrs
Note:  See laboratory component under Section 2.

2. Common Program Prerequisites  (25 hrs)
A. Communications  (9 hrs)
  ENC 1101  Composition I  GEP
  ENC 1102  Composition II  GEP
  SPC 1600  Fundamentals of Oral Communication  GEP
B. Humanities  (6 hrs)
  PHI 2010  Introduction to Philosophy  GEP
  Select one:
    ARH 2050  The History of Art I  or
    ARH 2061  The History of Art II  or
    MUL 2010  Enjoyment of Music  or
    THE 2000  Theatre Survey or
    FIL 2400  History of Motion Pictures
C. Mathematics  (9 hrs)
  MAC 1105  College Algebra  3 hrs
  MGF 1106  Finite Mathematics  GEP
  One of the following (per GEP)
    STA 1060C  Basic Statistics using MS Excel  GEP
    STA 2014C  Principles of Statistics  GEP
  Select one:
    ARH 2650  Survey of Western Art I  or
    ARH 2651  Survey of Western Art II  or
    MUL 2010  Enjoyment of Music  or
    THE 2000  Theatre Survey or
    FIL 2400  History of Motion Pictures
D. Social Science/History  (12 hrs)
  Select one:
    AMH 2020  U.S. History 1877-Present  GEP
    AMH 2090  U.S. History 1492-1877  GEP
    POS 2041  American National Government  GEP
    PSY 2012  General Psychology  GEP
E. Science  (9 hrs + lab)
  Select one:
    PSC 1121  Physical Science  GEP
    One of the following (per GEP)
    ANT 2511  The Human Species or
    BSC 1005  Biological Principles  GEP
    Select one:
3. Early Childhood Pre-professional Requirements (6 hrs)
Offered summer semesters. Must be taken prior to Internship II

- ARE 2011 Art & Creativity in Early Child Education (3 hrs)
- MUE 2211 Music & Movement in Early Childhood (3 hrs)

4. Early Childhood Specialization Requirements
Early Childhood Education majors take a variety of courses related to young children, their learning, their development, and family environment. Students majoring in Early Childhood Education take a series of core and specialization courses to prepare them to teach in the schools and to demonstrate the Florida Educator Accomplished Practices. Early and continuous field experiences are provided to enhance the Early Childhood Education major’s program and to integrate theory and practice in actual school settings. Throughout the Early Childhood Education program, students document and reflect upon their accomplishments in a Professional Portfolio, which is continuously reviewed by faculty. Required Courses are as follows:

Semester I (15 hrs)

- EDF 3740 Foundations of ECE (3 hrs)
- EDF 3310 Observing Child Growth & Development (3 hrs)
- LAE 3414 Children's Literature (3 hrs)
- EEC 3268 Play Development (3 hrs)
- TSL 4080 Theory and Practice of Teaching ESOL (3 hrs)

Semester II (15 hrs)

- EDF 3307 Learning Environments & Guidance (3 hrs)
- EEX 3450 Young Children with Special Needs (3 hrs)
- ARH 2050 or 3 hrs Arts & Sci elec (3 hrs)
- RED 3310 Emergent Literacy (3 hrs)
- RED 3012 Basic Foundations of Reading (3 hrs)

Summer (6 hrs)
Offered summer semesters. Must be taken prior to Internship II

- EEX 4751 Parent Involvement (3 hrs)
- EEC 4731 Health, Safety, & Nutrition (3 hrs)
- EEC 4943 Student Teaching (Internship II) (12 hrs)

5. Internships
Internships comprise a critical part of the Early Childhood Education program. Therefore, it is crucial that the students are aware of the expectations and requirements of internship placements. For detailed information including requirements and application deadlines see the Undergraduate Catalog, College of Education, Office of Clinical Experiences.

6. Foreign Language Requirements (0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

7. Departmental Exit Requirements
- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Complete a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination prior to graduation.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

9. Total Semester Hours Required 127 hrs
At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

10. Recommended Four-Year Sequence of Courses

Freshman Year
Fall (12 hrs) Spring (16 hrs)
EDF 2005 3 hrs EDF 2006 3 hrs
ENC 1101 3 hrs ENC 1102 3 hrs
MGF 1106 3 hrs MGF 1106 3 hrs
PSY 1113 3 hrs PHI 1113 3 hrs

Sophomore Year
Fall (15 hrs) Spring (16 hrs)
AMH 2010 3 hrs AMH 2020 3 hrs
BSC 1005 3 hrs BSC 1002 3 hrs
EME 2040 3 hrs Arts & Sci elec 3 hrs
STA 2014C 3 hrs

Junior Year
Fall (15 hrs) Spring (15 hrs)
ARE 2011 3 hrs MUE 2211 3 hrs

Senior Year
Fall (12 hrs) Spring (12 hrs)
See Section 4, Semester I above See Section 4, Semester II above

ECONOMICS (B.A.)
College of Business Administration
Department of Economics, BA2 305, 407-823-3266
http://www.bus.ucf.edu/economics
E-mail: robertp@mail.ucf.edu
BA2 303B, 407-823-2640
The Bachelor of Arts in Economics is designed for students with a liberal arts background, and will provide them with a strong foundation for future graduate studies or as training for a career in politics, teaching, research, social services and a variety of other areas. Successful completion of this program leads to the Bachelor of Arts degree with a major in Economics.

Admission Requirements none

Degree Requirements
UCF Degree Programs

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should consult with a College of Business Administration advisor.
- Courses designated in 1. (General Education Program) and 2. (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

   A. Communication Foundations
      Required: SPC 1600
      9 hrs
   B. Cultural and Historical Foundations
      9 hrs
   C. Mathematical Foundations
      Select MAC 1105 College Algebra
      3 hrs
      Select STA 2023 Principles of Statistics
      3 hrs
   D. Social Foundations
      Select ECO 2013 Microeconomics or
      ECO 2023 Microeconomics
      3 hrs
   E. Science Foundations
      6 hrs

2. Common Program Prerequisites (3 hrs)

   ECO 2013 Macroeconomics
   ECO 2023 Microeconomics
   3 hrs

3. Core requirements (15 hrs)

   ECO 3101 Intermediate Microeconomics
   ECO 3203 Intermediate Macroeconomics
   ECO 3401 Quantitative Business Tools I*
   ECO 3411 Quantitative Business Tools II**
   ECO 4412 Econometrics
   ECO 4451 Research Methods in Economics
   3 hrs
   *STA 2023 and MAC 2233 or STA 2023 and any Calc 1 & 2 sequence
   substitute for ECO 3401.
   ** STA 4163 substitutes for ECO 3411.

4. Upper Division Restricted Electives (18 hrs)

   Select one of the following tracks:
   1. PRE-LAW TRACK
      Restrictive electives
      (9 hours)
      ECO 4XXX Law and Economics
      EDP 4303 History of Economic Thought
      ECP 4403 Industrial Organization and Game Theory
      Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941)
      courses other than the required major and this track's restricted elective courses.
   2. POLITICAL ECONOMY TRACK
      Restrictive electives
      (9 hours)
      ECO 4504 Public Economics
      ECO 4903 History of Economic Thought
      ECO 4013 Economics of Developing Areas
      Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941)
      courses other than the required major and this track's restricted elective courses.
      For double majors in Political Science, two of these electives can be
      selected from Political Science with advisor's approval.
   3. PRIVATE ENTERPRISE TRACK
      Restrictive electives
      (9 hours)
      ECO 3223 Money and Banking
      ECP 3202 Labor Economics
      ECP 4403 Industrial Organization and Game Theory
      Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941)
      courses other than the required major and this track's restricted elective courses.
   4. INTERNATIONAL TRACK
      Restrictive electives
      (9 hours)
      ECO 3703 International Trade
      ECP 4XXX International Macroeconomics
      ECS 4013 Economics of Developing Areas
      Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941)
      courses other than the required major and this track's restricted elective courses.
      (ECS 4XXX Seminar In Global Economic Policy is highly recommended).
   5. ECONOMICS OF GOVERNMENTAL REGULATION
      Restrictive electives
      (9 hours)
      ECP 4302 Environmental & Natural Resource Economics

ECO 4504 Public Economics
ECP 3203 Labor Economics
Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941)
courses other than the required major and this track's restricted elective courses.

6. GENERAL TRACK

   Select any SIX 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses
   other than the required major courses. Two of these electives can be selected from
   a related discipline with advisor's approval.

   It is possible to have a double track; however, only the first designated track will
   show up on the transcript.

   For those students interested in preparing for graduate school, the
   following electives are strongly recommended:

   - ECO 3703 International Trade
   - ECO 4412 Econometrics
   - ECO 3410 Quantitative Business Tools
   - ECO 4403 Industrial Organization and Game Theory

   Minors in Mathematics or Statistics are also recommended to help prepare students
   for graduate school. Consult with your academic advisor on the appropriate minors
   to be paired with the different tracks.

5. Required Minor (18 hrs min)

   Completion of a minor in one of the following suggested areas:
   - Digital Media, Computer Science, History, Mathematics, Statistics,
   - the Social and Behavioral Sciences, or Technical Writing.

   Other minors are acceptable with prior approval of the Economics Undergraduate Advisor.

6. Departmental Exit Requirements

   - Students majoring in Economics must earn a grade of "C" (2.0) or better in each ECO, ECP, ECS course and in each course applied towards the major as well as a 2.0 overall average in the major.
   - Computer Competency met by Research Methods course.

7. Foreign Language Requirements (0-8 hrs)

   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)

   Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hours

Related Programs: Economics BSBA
Related Minors: Computer Science, Economics, Mathematics, Political Science, Psychology, Sociology, Statistics

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF
ECO 2013 and 2023 are prerequisites for all subsequent economics courses and will need to be taken.

Four Year Plan of Study - B.A. Economics

Freshman

1st Term 15 hrs 2nd Term 15 hrs
ENC 1101* 3  ENC 1102* 3
Cult-Hist I* 3  Cult-Hist II* 3
SPC 1600 3  Art/Music/Lit 3
***Elective 3  ECS 4101* 3
***Elective 3  CGS 2100CC* 3
Must complete 9 hours in a summer semester

Sophomore

1st Term 16 hrs 2nd Term 16 hrs
ECO 2013* 3  ECO 2023* 3
Science 3  Science 3
Psych/Sci/Ant 3  ***Elective 3
***Elective 3  STA 2023* 3
Foreign Language 3  Foreign Language 3
* "C" (2.0) or better grade required in each class

Junior

1st Term 15 hrs 2nd Term 15 hrs
ECO 3401 or MAC 2233 6  ECO 3411 3
ECO 3203 3  ECO 3101 3
Minor** 3  Minor** 3
***Elective 3  ECO Elective 3

Senior

1st Term 15 hrs 2nd Term 13 hrs
ECO Elective 3  ECO 4451 3
ECO Elective 3  ECO Elective 3
Minor** 3  Minor** 3
***Elective 3  ECO Elective 3
***Elective 1

** 18 hours (minimum) of minor required.
*** General electives as required to reach 120 semester hours.

ECONOMICS, BUSINESS (B.S.B.A.)

College of Business Administration

Department of Economics, BA2 101, 407-823-2184
http://www.bus.ucf.edu/economics

R. Pennington; 407-823-3266, robertp@bus.ucf.edu

Admission Requirements to Business Economics

Completion of the UCF General Education program or an AA degree from a Florida Public Community College

See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)

   A. Communication Foundations 9 hrs
   Required: English Writing
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 3 hrs
   Select one:
   - Select MAC 1105 College Algebra 3 hrs
   - Select MAC 2110CC Computer Fundamentals for Business 3 hrs
   D. Social Foundations 3 hrs
   Select one:
   - Principles of Macroeconomics 3 hrs
   - Principles of Microeconomics 3 hrs
   E. Science Foundation 6 hrs

2. Common Program Prerequisites

   Must be completed with a "C" (2.0) or better.
   ACG 2021 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2013 Principles of Macroeconomics
   ECO 2023 Principles of Microeconomics
   ECO 3401 Quantitative Business Tools I*
   **GS 2100CC Computer Fundamentals for Business
   * At UCF, students who have completed MAC 2233 and STA 2023 or STA 2023 and any Calc. 1 & 2 sequence substitute for ECO 3401 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Common Body of Knowledge (30 hrs)

   a. UCF General Education Program (36 hrs)
   - GEB 3031 Cornerstone (Required in 1st or 2nd semester) 6 hrs

   b. Courses specific to this program:
   - ECO 2013 Principles of Macroeconomics
   - ECO 2023 Principles of Microeconomics
   - ECO 3401 Quantitative Business Tools I*
   - CGS 2100CC Computer Fundamentals for Business
   - ECO 3411 Quantitative Business Tools II
   - STA 2023* 3
   - STA 2023* 3

   c. Elective 3

   d. ECONOMICS OF GOVERNMENTAL REGULATION
   - GEB 3356 Introduction to International Business 3 hrs
   - BUL 3130 Legal & Ethical Environ. of Business 3 hrs
   - ECO 3411 Quantitative Business Tools II 3 hrs
   - FIN 3403 Business Finance 3 hrs
   - MAN 3025 Management of Organizations 3 hrs
   - ISM 3011 Essentials of Management Information Systems 3 hrs
   - MAR 3023 Marketing 3 hrs
   - Last Semester: 3 hrs
   - MAN 4720 Strategic Management 3 hrs
   - **STA 4163 substitutions for ECO 3411*

4. Special College and/or Departmental Requirements

Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each program prerequisite class.

Final exams will be given during Exam Week.

Students must have at least a 2.0 GPA in the COB.

Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.

Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.

Students majoring in Business Economics must earn a grade of "C" (2.0) or better in each ECO, ECP, ECS course and in each course applied toward the major as well as a 2.0 overall average in the major.

5. Required Major Courses (9 hrs)

   ECS 4XXX Seminar in Macroeconomics 3 hrs
   ECS 4XXX Seminar in Microeconomics 3 hrs
   ECS 4XXX Seminar in International Economics 3 hrs
   ECS 4XXX Seminar in International Business 3 hrs

6. Upper Division Restricted Electives (18 hrs)

All economics majors will be required to take six (6) electives by choosing one of the following options:

1. BUSINESS ECONOMICS TRACK

   Restrictive electives (9 hours)
   - ECP 3203 Labor Economics
   - ECP 4003 Industrial Organization and Game Theory
   - ECP 3203 Money and Banking
   - ECP 4003 Money and Banking

   Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.

2. INTERNATIONAL TRACK

   Restrictive electives (9 hours)
   - ECO 3703 International Trade
   - ECO 4XXX International Macroeconomics
   - ECS 4013 Economics of Developing Areas
   - ECS 4013 Economics of Developing Areas

   Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.

3. PRE-LAW TRACK

   Restrictive electives (9 hours)
   - ECO 4XXX Law and Economics
   - ECP 3203 Labor Economics
   - ECP 4003 Industrial Organization and Game Theory
   - ECP 4003 Industrial Organization and Game Theory

   Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.

4. FINANCIAL ECONOMICS TRACK

   Restrictive electives (9 hours)
   - ECO 4412 Econometrics
   - ECO 3203 Money and Banking
   - ECO 4XXX International Macroeconomics
   - ECO 4XXX International Macroeconomics

   Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.

5. ECONOMICS OF GOVERNMENTAL REGULATION

   Restrictive electives (9 hours)
   - ECP 4302 Environmental & Natural Resource Economics
   - ECO 4504 Public Economics
   - ECP 3203 Labor Economics
   - ECP 3203 Labor Economics

   Select any other three 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.
6. GENERAL TRACK
Select any SIX 3000-4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major courses. Two of these electives can be selected from a related discipline with advisor’s approval.

It is possible to have a double track; however, only the first designated track will appear on the transcript.

For those students interested in preparing for graduate school, the following electives are strongly recommended:
- ECO 3703: International Trade
- ECO 4412: Econometrics
- ECO 3410: Mathematical Economics
- ECO 4504: Public Economics
- ECP 4403: Industrial Organization & Game Theory

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or other than the required major courses. Two of these electives can be selected from a related discipline with advisor’s approval.

For those students interested in preparing for graduate school, the following electives are strongly recommended:
- ECO 3703: International Trade
- ECO 4412: Econometrics
- ECO 3410: Mathematical Economics
- ECO 4504: Public Economics
- ECP 4403: Industrial Organization & Game Theory

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of summer credit (if applicable)

9. Electives***(variable)

Total Semester Hours Required 120 hrs

Community/Junior College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Principles of Macroeconomics, Principles of Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Tools I.
- Subject to the general grade and residency requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better grade in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Professional courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

Four Year Plan of Study - Business Economics

<table>
<thead>
<tr>
<th>Freshman 1st Term</th>
<th>Freshman 2nd Term</th>
<th>Sophomore 1st Term</th>
<th>Sophomore 2nd Term</th>
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<tr>
<td>ENC 1101*</td>
<td>ENC 1102*</td>
<td>ECO 2023*</td>
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<td>Cult-Hist I*</td>
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<td>**Elective</td>
<td>**Elective</td>
<td>**Elective</td>
<td>**Elective</td>
</tr>
</tbody>
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Must complete 9 hours in a summer semester

**Elective 3 ECO Elective 3

ECONOMICS (B.A./M.A.A.E. and B.S.B.A./M.A.A.E.)
Accelerated Undergraduate/Graduate Program
Note: For detailed information about these programs, see descriptions in the “Accelerated Undergraduate/Graduate Program” section of this Undergraduate Catalog.

ELECTRICAL ENGINEERING (B.S.E.E.)
College of Engineering and Computer Science
School of Electrical Engineering & Computer Science
Engineering & Computer Science,
College of Engineering and Computer Science
ELECTRICAL ENGINEERING (B.S.E.E.)

Harris Corp Engineering Ctr, Rm 245, 407-823-5765,
Fax: 407-823-5835,
http://www.ee.ucf.edu

Admission Requirements:
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, Orientation, found elsewhere in this catalog.

Degree Requirements
Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students
The UCF General Education Program (GEP) is described in the section, General Education Program, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations
1. ENC 1101 & ENC 1102
2. Prefer SPC 1016

B. Cultural and Historical Foundations
1. Select two courses from Historical Foundations
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1001, REL 2300, PHI 2100, LIT 2101, or LIT 2120

C. Mathematical Foundations
1. Select MAC 2311 (PR: MAC 1141)
2. Select STA 3023 (PR: MAC 2312)

D. Social Foundations
1. Prefer ECO 2021 or ECO 2023.
UCF Degree Programs

Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Electrical Engineering - 128 semester hours required

**FIRST YEAR**
Fall
- EGN 1006C Intro to the Engineering Profession 1 hr
- EGN 1007C Engineering Concepts & Methods 1 hr
- EGN 3310E Engineering Analysis - Statics 3 hrs
- EGN 3321E Engineering Analysis - Dynamics or EEL 3342C Intro to Dig Circ/Sy 3 hrs
- EEL 3307C Thermodynamics-Heat Transfer 3 hrs
- EEL 4302E Probability & Statistics for Engineers 3 hrs
- PHY 3101E Physics for Engineers & Scientists III 3 hrs

Spring
- EGN 3310E Computation I 1 hr
- EGN 3310E Computation II 1 hr
- ENC 1102 Cultural & Hist Foundations 3 hrs
- EGN 3321E Engr Anal-Statics 3 hrs
- MAC 2311E Calc with Analytic Geo I 4 hrs
- MAC 2312E Calc with Analytic Geo II 4 hrs
- PHY 2048L Phys Eng I w/lab 4 hrs

**SECOND YEAR**
Fall
- EEL 3304E Electrical Networks 3 hrs
- EEL 3323C Networks and Systems 4 hrs
- EEL 3306E Semiconductor Devices I 3 hrs
- EEL 3307C Electronics I 4 hrs
- EEL 3342C Intro to Digital Circuits & Systems 3 hrs
- EEL 3470E Electromagnetic Fields 3 hrs
- EEL 3552C Analog and Digital Communications 4 hrs
- EEL 3657T Linear Control Systems 3 hrs
- EEL 3801C Intro to Computer Engineering 3 hrs
- EEL 4095C Electronics II 4 hrs
- EEL 4750E Digital Signal Processing Fund. 3 hrs
- EEL 4767C Computer System Design I 4 hrs

Spring
- EEL 3306E Semiconductor Devices I 3 hrs
- EEL 3342C Intro to Dig Circ/Sy 3 hrs
- ECO 2013 Microeconomics or ECO 2023 Macroeconomics 3 hrs
- MAC 2313E Calc with Analytic Geo III 4 hrs
- PHY 2049E Phys for Engr/Sci II 3 hrs
- PHY 2049L Phys Lab Engr/Sci II 1 hr

**THIRD YEAR**
Fall
- EEL 3306E Semiconductor Devices I 3 hrs
- STA 3032E Prob & Stats for Engrs 3 hrs
- EEL 4767C Computer System Design I 4 hrs
- EEL 3320C Networks and Systems 4 hrs
- EEL 3306E Semiconductor Devices I 3 hrs
- EEL 4750E Digital Signal Processing Fund. 3 hrs
- EEL 4767C Computer System Design I 4 hrs

Spring
- EEL 3306E Semiconductor Devices I 3 hrs
- STA 3032E Prob & Stats for Engrs 3 hrs
- EEL 4767C Computer System Design I 4 hrs
- EEL 3320C Networks and Systems 4 hrs
- EEL 3306E Semiconductor Devices I 3 hrs
- EEL 4750E Digital Signal Processing Fund. 3 hrs

**FOURTH YEAR**
Fall
- EEL 4750E Digital Signal Processing Fund. 3 hrs
- EEL 3470E Electromagnetic Fields 3 hrs
- EEL 4300C Electronics II 3 hrs
- EEL 4914E Senior Design I 3 hrs

Notes:
- Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
- Assumes knowledge of a higher level programming language (C preferred).
- EEL 1006 and EEL 1007C are required courses for incoming freshmen only.
The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

**ELECTRICAL ENGINEERING - MICROELECTRONICS CONCENTRATION (B.S.E.E.)**

**College of Engineering and Computer Science**

**School of Electrical Engineering & Computer Science**


Samuel Richie, E-mail: richie@mail.ucf.edu

**Admission Requirements:**

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

**Degree Requirements**

Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. **UCF General Education Program for Engineering Students**

   The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs below. Students transferring to UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

   **A. Communication Foundations**
   - ENC 1101 & ENC 1102
   - 9 hrs

   **B. Cultural and Historical Foundations**
   - Select two courses from Historical Foundations
   - Select two courses from Social Science Foundations
   - 9 hrs

   **C. Mathematical Foundations**
   - 7 hrs
   - 1. Select MAC 2311 (PR: MAC 1141)
   - 2. Select STA 2023 (PR: MAC 2311)

   **D. Social Foundations**
   - 6 hrs
   - 1. Select two courses from Historical Foundations
   - 2. Select STA 2023

   **E. Science Foundations**
   - 7 hrs
   - 1. Select PHY 2048&L (PR: MAC 2311)
   - 2. Select STA 2023 (PR: MAC 2311)

2. **Common Program Prerequisites (CPP’s)**

   These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferable directly to UCF programs.

   **Note:** MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

   **CHS 1440** Fundamentals of Chemistry for Engineering
   - 4 hrs

   **MAC 2311** Calculus with Analytic Geometry I
   - 4 hrs

   **MAC 2312** Calculus with Analytic Geometry II
   - 4 hrs

   **MAC 2313** Calculus with Analytic Geometry III
   - 4 hrs

   **MAP 2302** Differential Equations
   - 3 hrs

   **PHY 2048&L** Physics for Engineers & Scientists I
   - 4 hrs

   **EEL 1101** Introduction to Engineering Analysis
   - 3 hrs

   **EEL 1102** Engineering Analysis
   - 3 hrs

   **EEL 1320** Engineering Analysis
   - 3 hrs

   **EEL 3328** Engineering Analysis - Dynamics
   - 3 hrs

   **EEL 3358** Engineering Analysis - Statics
   - 3 hrs

   **EEL 3340** Engineering Analysis
   - 3 hrs

   **EEL 3342** Intro to Digital Circuits & Systems
   - 3 hrs

   **EEL 3343** Electromagnetic Fields
   - 3 hrs

   **EEL 3552** Analog & Digital Communications
   - 4 hrs

   **EEL 3557** Linear Control Systems
   - 3 hrs

   **EEL 3801C** Intro to Computer Engineering
   - 3 hrs

   **EEL 4309C** Electronics II
   - 4 hrs

   **EEL 4750** Digital Signal Processing Fundamentals
   - 3 hrs

   **EEL 4767C** Computer System Design I
   - 4 hrs

3. **Courses Required for the Engineering Core**

   The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4.

   **5. Approved Microelectronics Technical Electives**

   Technical electives are available in the BSEE program to address specific student interests in a variety of technical areas. For those students with a declared interest in microelectronics, a concentration in this area is available by taking three microelectronics technical electives in addition to the required microelectronics courses listed in 3. above.

6. **Departmental Graduation Requirements**

   [Detailed requirements are listed here.]

   **6. Departmental Graduation Requirements**

   **7. Foreign Language Requirements**

   [Requirements and details are provided here.]

   **Graduation:**

   **8. University Minimum Graduation Requirements**

   [Requirements are detailed here.]

   **Total Semester Hours Required:** 128 hours

   **Related Programs:**

   [List of related programs is provided here.]

   **Transfer Notes:**

   [Notes regarding transfer credits are listed here.]

   **Tentative Course Schedule for Entering Freshmen**

   [A tentative course schedule is provided below for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.]
### UCF Degree Programs

#### Electrical Engineering - Microelectronics Concentration

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>FIRST YEAR</td>
<td></td>
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<tr>
<td>Fall</td>
<td>EGN 1006C Intro to Engr</td>
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<tr>
<td></td>
<td>* ENC 1101 English Comp I</td>
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<td>* CHS 1440 Chem for Engrs</td>
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<td></td>
<td>* MAC 2311 Calc Analytic Geo I</td>
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<td>Summer</td>
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<td></td>
<td>* Historical Foundations Ia</td>
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<td></td>
<td>* MAC 2313 Calc Analytic Geo III</td>
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<td></td>
<td>* PHY 2049 Phys for Engr/Sci II</td>
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<td>* PHY 2049L Phys Lab Engr/Sci II</td>
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<td>SECOND YEAR</td>
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<td>* MAP 2302 Diff Equations</td>
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<td>* PHY 3101 Phys Engr/Sci III</td>
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<td>* Science Foundations 2</td>
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<td></td>
<td>* Social Foundations 1</td>
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<td></td>
<td>EGN 3420 Engineering Anal II</td>
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<td>Summer</td>
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<td>* Historical Foundations 1b</td>
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<td></td>
<td>* ECO 2013 Macroeconomics</td>
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<td>ECO 2023 Microeconomics</td>
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<td>THIRD YEAR</td>
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<tr>
<td>Fall</td>
<td>EEL 3306 Semicond Devices I</td>
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<td>STA 3032 Prob &amp; Stats Engrs</td>
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<td>EEL 4767C Cmpt Sys Design I</td>
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<td></td>
<td>EEL 3123C Networks and Systems</td>
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<td>FOURTH YEAR</td>
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<td>EEL 3470 Electromagnetic Flds</td>
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<td>EEL 4309C Electronics II</td>
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<td>EEL 4914 Senior Design I</td>
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<td>EEL 3571 Linear Control Sys</td>
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<td>EEL 3552C Analog &amp; Dig. Comm</td>
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<td>EGN 3321 Engr Anal-Dynamics</td>
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<td>EG 3358 Ther.Foundation-Hlds Transfer</td>
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<tr>
<td></td>
<td>EG 3358 Ther.Foundation-Hlds Transfer</td>
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</tbody>
</table>

### Notes:

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program, see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

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**ELECTRICAL ENGINEERING - WIRELESS COMMUNICATION CONCENTRATION (B.S.E.E.)**

**College of Engineering and Computer Science**

**School of Electrical Engineering & Computer Science**

**Harris Corp Engineering Ctr, Rm 245; 407-823-5765, Fax: 407-823-5835,**

**http://www.ee.ucf.edu**

**Samuel Richie, E-mail: richie@mail.ucf.edu**

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**Admission Requirements:**

All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

**Degree Requirements**

Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

---

**1. UCF General Education Program for Engineering Students**

The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A through E, below. To minimize excess hours, Students transferring to UCF from within the Florida State University/ Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

- **A. Communication Foundations**
  - 9 hrs
  - ENC 1101 & ENC 1102
  - Prefer SPC 1016

- **B. Cultural and Historical Foundations**
  - 9 hrs
  - Select two courses from Historical Foundations
  - ARH 2505, ARH 2501, MUL 2010, MCH 2000, FIL 1001, REL 2300, PHI 2010, LIT 2110, or LIT 2120

- **C. Mathematical Foundations**
  - 7 hrs
  - Select MAC 2311 (PR. MAC 1144)
  - Select STA 3022 (PR. MAC 2312)

- **D. Social Foundations**
  - 6 hrs
  - Prefer ECO 2013 or ECO 2023
  - ANT 2000, PSY 2012, or SYG 2000

- **E. Science Foundations**
  - 7 hrs
  - Select PHY 2048/49L (PR. MAC 2311)
  - ANT 2111, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310

---

**2. Common Program Prerequisites (CPP’s)**

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs.

- **Note:** MAC 2311 and PHY 2048/49L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

  - **CHS 1440 Fundamentals of Chemistry for Eng**
    - 4 hrs
    - (CHM 2045C/45L will substitute)
  - **MAC 2311 Calculus with Analytic Geometry I**
    - 4 hrs
  - **MAC 2312 Calculus with Analytic Geometry II**
    - 4 hrs
  - **MAC 2313 Calculus with Analytic Geometry III**
    - 4 hrs
  - **MAP 2302 Differential Equations**
    - 3 hrs
  - **PHY 2048/49L Physics for Engineers & Scientists I**
    - 4 hrs
  - **PHY 2049/49L Physics for Engineers & Scientists II**
    - 4 hrs
  - **ENC 1101 Composition I**
    - 3 hrs
  - **ENC 1102 Composition II**
    - 3 hrs
  - **Humans or Social Sciences**
    - 3 hrs
  - **Science Social Courses**
    - 3 hrs
  - **Electrical Engineering - Microelectronics Concentration**
    - 5 hrs
  - **EEL 3104 Electrical Networks**
    - 3 hrs
  - **EEL 3123C Networks and Systems**
    - 4 hrs
  - **EEL 3306 Semiconductor Devices I**
    - 3 hrs
  - **EEL 3307C Electronics I**
    - 4 hrs
  - **EEL 3342C Intro to Digital Circuits & Systems**
    - 3 hrs
  - **EEL 3470 Electromagnetic Fields**
    - 3 hrs
  - **EEL 3552C Analog & Digital Communications**
    - 4 hrs
  - **EEL 3567 Linear Control Systems**
    - 3 hrs
  - **EEL 3901C Intro to Computer Engineering**
    - 3 hrs
  - **EEL 4309C Electronics II**
    - 4 hrs
  - **EEL 4750 Digital Signal Processing Fund.**
    - 3 hrs
  - **EEL 4767C Computer System Design I**
    - 4 hrs

---

**3. Courses Required for the Engineering Core**

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4, below. Electrical engineering courses listed in 5, below and with the senior design courses listed in 6, below, do not count toward graduation. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

- **EGN 1006C Intro to the Engineering Profession**
  - 1 hr
- **EGN 1007C Engineering Concepts & Methods**
  - 1 hr
- **EEL 3130 Engineering Analysis - Statics**
  - 3 hrs
- **EEL 3321 Engineering Analysis - Dynamics or**
  - 3 hrs
- **EEL 3358 Thermo-Fluids-Heat Transfer**
  - 3 hrs
- **EGN 3420 Engineering Analysis**
  - 3 hrs
- **STA 3022 Probability & Statistics for Engineers**
  - 3 hrs
- **PHY 3101 Physics for Engineers & Scientists I**
  - 3 hrs
- **EEL 4309C Electronics II**
  - 4 hrs
- **EEL 4750 Digital Signal Processing Fund.**
  - 3 hrs
- **EEL 4767C Computer System Design I**
  - 4 hrs

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**4. Courses Required for the Major**

**Electrical Engineering - Microelectronics Concentration**

- **128 semester hrs required**

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**5. Approved Wireless Technical Electives**

Technical electives are available in the BSEE program to address specific student interests in a variety of technical areas. For those stu-
UCF Degree Programs

dents with a declared interest in wireless communication, a concentration in this area if available by taking the wireless technical electives in addition to the required communication courses listed in 3. above.

6. Departmental Graduation Requirements (6 hrs)
   - EEL 4914 Senior Design I 3 hrs
   - EEL 4915L Senior Design II 3 hrs
   - CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements
   - A 2.0 UCF GPA.
   - 60 semester hours earned after any CLEP award.
   - 48 semester hours of upper division credit completed.
   - 30 of the last 36 hours of course work must be completed in residence at UCF.
   - 25% of course work must be completed in residency at UCF.
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

Total Semester Hours Required: 128 hrs

Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).
Related Minors: Engineering Leadership & Management, Intelligent Robotic Systems
Transfer Notes:
   - Courses taken from Community Colleges do not substitute for Upper Division Courses
   - Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen
The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Electrical Engineering - Wireless Communication Concentration

FIRST YEAR
Fall 12 hrs 1,3 Spring 15 hrs 1,3
- EGN 1006C Intro to Engr 1
- *ENC 1101L English Comp I 3
- *CHS 1440 Chem for Engrs 4
- *MAC 2311 Calc Analytic Geo I 4
- *PHY 2049/8L Phys Eng I webal 4
- *MAC 2313 Calc Analytic Geo III 4
- *PHY 2049/8L Phys Lab EngrII 1
- *MAC 2313 Calc Analytic Geo III 4
- *PHY 2049/8L Phys Lab Engr II 1
- *MAC 2313 Calc Analytic Geo III 4
- *PHY 2049/8L Phys Lab Engr II 1
- *MAC 2313 Calc Analytic Geo III 4
- *PHY 2049/8L Phys Lab Engr II 1
- *MAC 2313 Calc Analytic Geo III 4
- *PHY 2049/8L Phys Lab Engr II 1

Summer 11 hrs 1
- *Historical Foundations 1a 3
- *MAC 2313 Calc Analytic Geo III 4
- *PHY 2049/8L Phys Lab Engr II 1
- *MAC 2313 Calc Analytic Geo III 4
- *PHY 2049/8L Phys Lab Engr II 1
- *MAC 2313 Calc Analytic Geo III 4
- *PHY 2049/8L Phys Lab Engr II 1
- *MAC 2313 Calc Analytic Geo III 4
- *PHY 2049/8L Phys Lab Engr II 1

SECOND YEAR
Fall 15 hrs 1,3 Spring 15 hrs 1,3
- *MAC 2313 Calc Analytic Geo III 4
- *PH2302 Diff Equations 3
- *PHY 3101 Phys Engr/Sci III 3
- *Science Foundations 2 3
- *SOC 1001 3
- EGN 3420 Engineering Anal2 3
- *MAC 2313 Calc Analytic Geo III 4
- *PH2302 Diff Equations 3
- *PHY 3101 Phys Engr/Sci III 3
- *Science Foundations 2 3
- *SOC 1001 3
- EGN 3420 Engineering Anal2 3
- *MAC 2313 Calc Analytic Geo III 4
- *PH2302 Diff Equations 3
- *PHY 3101 Phys Engr/Sci III 3
- *Science Foundations 2 3
- *SOC 1001 3
- EGN 3420 Engineering Anal2 3

Summer 6 hrs 1
- *Cult & Historical Foundations 1b 3
- *ECO 2023 Microeconomics 3
- *ECO 3023 Microeconomics 3
- *ECO 3023 Microeconomics 3
- *ECO 3023 Microeconomics 3

THIRD YEAR
Fall 14 hrs Spring 14 hrs
- EEL 3213 Networks and Systems 4
- EEL 3213 Networks and Systems 4
- EEL 3213 Networks and Systems 4
- EEL 3213 Networks and Systems 4
- EEL 3213 Networks and Systems 4
- EEL 3213 Networks and Systems 4

Notes
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

Accelerated BS/MS Degree Program
The Electrical Engineering program offers the Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated Program section in the back of this catalog for more information.

ELECTRICAL ENGINEERING TECHNOLOGY - COMPUTER SYSTEMS CONCENTRATION (B.S.E.E.T.)

College of Engineering and Computer Science Engineering Technology (ENT) Department, ENGR 207 http://www.ent.ucf.edu

Coordinator: Alireza Rahrooh
407-823-4749 Fax: 407-823-4746
E-mail: rahrooh@pegasus.cc.ucf.edu

Admission Requirements
- none

Degree Requirements
- Students should check with their ENT advisor frequently to insure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (36+2 hrs)
   - A. Communication Foundations 9 hrs
     - 1. ENC 1101 & ENC 1102
     - 2. Prefer SPC 1016
   - B. Cultural and Historical Foundations 9 hrs
     - C. Mathematical Foundations 6 hrs
     - 1. Select MAC 1155
     - 2. Select STA 2023
     - D. Social Foundations 6 hrs
     - E. Science Foundations 8 hrs
     - 1. Select PHY 2053C
     - 2. Select BSC 1005/1005L, BSC 1050/1050L, or BSC2010C,

2. Common Program Prerequisites (CPP) (6/8 hrs)
   (C or better grades are required in all courses)
   - MAC 2533 Calclus I 3/4 hrs
     or MAC 2311
   - MAC 2534 Calculus II or equiv 3/4 hrs
     or MAC 2312
   - PHY 2053C or PHY 2048L Physics I/Lab 3/4 hrs
     GEP

3. Engineering Technology Core Requirements (C or better grades are required in all courses) (25 hrs)
   - BSC 1005/L, BSC 1050/L, or GEO 1200/LBSC2010C
     GEP
   - ENC 3241 Writing for the Technical Professional 3 hrs
     or MAC 1105
   - MAC 1114 College Algebra 3 hrs
     GEP
   - MAC 2253 Calculus I or 3 hrs
     GEP
   - MAC 2311
   - MAP 3401 Problem Analysis or
Students entering a UCF undergraduate program and having a degree or with the general education program (GEP) requirements of Students transferring from any Florida public institution with an AA

Transfer Notes:

Related Minors: none

Electrical Engineering Technology (Electrical Related Programs:

Total Semester Hours Required: 128 hours

Complete the General Education Program, the Gordon Rule, the A maximum of 45 hours of extension, correspondence, CLEP, " 25% of course work must be completed in residency at UCF

4. Technical Specialization

Lower Level Required and Elective Courses (20 hrs)

(C or better grades are required in all courses)

EST 3543C Programmable Logic Controllers 3 hrs

CET 3323C Digital Technology 4 hrs

CET 235A System Applications in C 3 hrs

EET 3085C Electricity and Electronics 4 hrs

EET 2102SC Electrical Circuits 4 hrs

STA 2023 Statistical Methods I GEP

Lower level technical elective 32 hrs

Upper Level Required Courses (30 hrs)

(C or better grades are required in all courses)

CET 391BC Digital Systems 3 hrs

CET 3503 Microcomputer Technology I 3 hrs

CET 3383 Applied Systems Analysis I 3 hrs

CET 4333 Computer Organization & Design 3 hrs

CET 4427 Applied Database I 3 hrs

CET 4505G Applied Operating Systems I 3 hrs

EET 3716 Network Analysis 3 hrs

CET 4138C Digital Programmable Devices 3 hrs

CET 4134C Microprocessor Elect II 3 hrs

CET 4429 Applied Database II 3 hrs

Upper Level Technical Electives (6 hrs)

(C or better grades are required in all courses)

See faculty advisor for list of approved Technical Electives.

5. Departmental Exit Requirement (3 hrs)

(C or better grade is required)

■ CET 4950C Senior Design Project 3 hrs

A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Graduation Requirements

■ A 2.0 UCF GPA

■ 60 semester hours earned after any CLEP award

■ 48 semester hours of upper division credit completed

■ 30 of the last 36 hours of course work must be completed in residency at UCF

■ 25% of course work must be completed in residency at UCF

■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

■ Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hours

Related Programs: Electrical Engineering Technology (Electrical Systems Concentration)

Related Minors: none

Transfer Notes:

Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.

■ Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)

■ Courses taken from Community Colleges do not substitute for Upper Division Courses

■ Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.

■ ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department

■ PHY 2046/L can substitute for PHY 2053C.

Tentative Course Schedule for the Computer Systems Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year

Fall 13/14 hrs Spring 12/13 hrs
MCC 2253/2311 Calculus I 3/4 MAP 3401 Prob Analysis or
EET 3716 Network Analysis 3 ETA 3383 Appl Sys Anal I 3
CET 4427 Applied Database I 3 CET 4427 Applied Database I 3
EET 4505G Applied Operating Systems I 3 CET 3198C Digital Systems 3
EET 3716 Network Analysis 3
CET 4138C Digital Programmable Devices 3
CET 4134C Microprocessor Elect II 3
CET 4429 Applied Database II 3

Summer 10 hrs
CET 4134C Micro Electronics II 3
CET 4333 Computer Org 3
CET 4138C Digital Prgnl Devices 4

Senior Year

Fall 15 hrs Spring 14 hrs
ETI 4448 Appl Proj Management 3 ETG 4950C Senior Design Proj 3
CET 3503 Microcomputer Tech I 3 CET 4427 Applied Database I 3
CET 4505G Appl Oper Sys I 3 ETI 3651C Computer Appl 3
ETI 3651C Computer Appl 3 ETG 3541 Appl Mechanics 3
CET Elective 3 CET Elective 3

Electrical Engineering Technology - ELECTRICAL SYSTEMS CONCENTRATION (B.S.E.E.T.)

College of Engineering and Computer Science Engineering Technology (ENT) Department ENGR 207
http://www.ent.ucf.edu
Coordinator: Ali Reza Rahrooh
407-823-4749 Fax: 407-823-4746
E-mail: rahrooh@pegasus.cc.ucf.edu

http://www.ent.ucf.edu

Admission Requirements

Degree Requirements

■ Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.

■ A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (36+2 hrs)

A. Communication Foundations

1. ENC 1101 & 1102 9 hrs

2. Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.

2. Courseware.

B. Cultural and Historical Foundations 9 hrs

1. Select MAC 1105 6 hrs

2. Select STA 2023

D. Social Foundations 6 hrs

1. Select PHY 2053C

2. Select BSC 1005/1005L, BSC 1050/1050L, or BSC2010C 8 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)

(C or better grades are required in all courses)

MAC 2253 or

MAC 2231 or

Calculus I

3/4 hrs

145
UCF Degree Programs

MAC 2311
MAC 2254 or Calculus II or equiv 3/4 hrs
MAC 2312
PHY 2053C or PHY 2048/L

3. Engineering Technology Core Requirements
(C or better grades are required in all courses)
BSC 1005L, BSC 1050L, GEO 1200L, BSC2010C
ENG 3241 Writing for the Technical Professional 3 hrs
MAC 1105 College Algebra GE
MAC 1114 College Trigonometry 3 hrs
MAC 2233 or Calculus I GE
MAC 2311
MAP 3401 Problem Analysis or
MAC 2312 Calculus II GE
PHY 2053C College Physics I GE
PHY 2054C College Physics II 4 hrs
ETG 3541 Applied Mechanics 3 hrs
ETI 3591C Computer Applications 3 hrs
ETI 3611 Technical Economic Analysis 3 hrs
ETI 3116 Applied Engineering Quality Assurance 3 hrs
ETI 4448 Applied Project Management 3 hrs
STA 2023 Statistical Methods I GE

4. Technical Specialization
(Lower Level Required and Elective Courses
(C or better grades are required in all courses)
EET 3593C Programmable Logic Controllers 3 hrs
CET 3323C Digital Fundamentals 4 hrs
CET 2364 System Applications in C 3 hrs
EET 1141C Analog Devices 4 hrs
ETG 3541 Applied Mechanics 3 hrs
EET 3143C Electronic Devices and Circuits 4 hrs
EET 2025C Electrical Circuits 4 hrs
ETG 3085C Electricity and Electronics 4 hrs
STA 2023 Statistical Methods I GE
Lower Level Technical Elective 3 hrs

Upper Level Required Courses
(C or better grades are required in all courses)
CET 3198C Digital Systems 3 hrs
CET 3503 Microcomputer Technology I 3 hrs
CET 4134C Microprocessor Electronics II 3 hrs
ETG 391 Grade A GPA in all courses
EET 3143C Electronic Devices and Circuits 4 hrs
EET 3143C Electronic Devices and Circuits 4 hrs
ETI 3651C Computer Applications 3 hrs
ETG 4950C Senior Design Project 3 hrs

5. Departmental Exit Requirement
(C or better grades are required )
ETG 4950C Senior Design Project 3 hrs
A grade of 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements
(0-8 hrs)
Admission: Two years of one foreign language in high school, or
one year of one foreign language in college (or equivalent proficiency
taxam) prior to graduation.
Graduation: none

7. Approved Technical Electives
(0-4 hrs)
Students should consult with the Department for a list of
the approved technical electives and the terms when specific courses of
this type are to be offered.

8. University Minimum Graduation Requirements
A 2.0 UCF GPA
12/14 hrs

Total Semester Hours Required: 128 hours

Note: For detailed information about this program, see the AS to BS

Electrical Engineering Technology (BSEE) Track

Transfer Notes:
Students transferring from any Florida public institution with an
AA degree or with the general education program (GE) require
ments of that institution met have thereby satisfied UCF GE
requirements.

Students entering a UCF undergraduate program and having a
previously earned baccalaureate degree from an accredited insti-
tution have thereby satisfied UCF GE requirements. (See also
the section on the GE found elsewhere in this catalog.)

Courses taken from Community Colleges do not substitute for
Upper Division Courses.

Related Programs:
Electrical Engineering Technology (Computer Systems Concentration).
Related Minors: none
**Admission Requirements**

none

**Degree Requirements**

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. **UCF General Education Program** (36+2 hrs)
   
   A. Communication Foundations
      - 1. ENC 1101 & 1102
      - 2. Prefer SPC 1016
   
   B. Cultural and Historical Foundations
      - 9 hrs
   
   C. Mathematical Foundations
      - 6 hrs
      - 1. Select MAC 1115
      - 2. Select STA 2023
   
   D. Social Foundations
      - 6 hrs
   
   E. Science Foundations
      - 8 hrs
      - 1. Select PHY 2053C
      - 2. Select BSC 1005/1005L, BSC 1050/1050L, or BSC2010C.

2. **Common Program Prerequisites (CPP)**
   
   (C or better grades are required in all courses)
   
   - MAC 2233 or Calculus I
   
   - MAC 2311
   
   - MAC 2244 or Calculus II or equiv
   
   - MAC 2312
   
   - PHY 2053C or Physics I Lab
   
   - PHY 2048/L
   
   3. **Engineering Technology Core Requirements**
      
      (C or better grades are required in all courses)
      
      - BSC 1005/L, BSC 1050/L, BSC2010C
      
      - ENC 3241
      
      - MAC 1105
      
      - MAC 1114
      
      - MAC 2253 or Calculus I
      
      - MAC 2311
      
      - MAP 3401
      
      - MAC 2312
      
      - PHY 2053C or College Physics I
      
      - PHY 2054C or College Physics II
      
      - ETG 3541
      
      - ETT 3671 or ETI 3116
      
      - ETI 4448
      
      - STA 2023
      
      4. **Technical Specialization**
      
      (C or better grades are required in all courses)
      
      - EST 3543C
      
      - CET 2364
      
      - CET 2114C
      
      - EST 2142C
      
      - EET 3143C
      
      - EST 2525C
      
      - EET 3693C
      
      - STA 2023
      
      - Lower level elective

   5. **Departmental Exit Requirement**
      
      (3 hrs)

   **Upper Level Required Courses**

   (C or better grades are required in all courses)
   
   - EET 3176
   
   - EET 4158C
   
   - EET 4548
   
   - EST 4227
   
   - EST 4259C

   **Upper Level Technical Electives**

   (9 hrs)

   Check with ENT faculty advisor for approved electives.

   **Total Semester Hours Required:** 128 hrs

   **Transfer Notes:**

   - Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution can have thereby satisfied UCF GEP requirements.
   - Students entering a UCF undergraduate program and having previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
   - Courses taken from Community Colleges do not substitute for Upper Division Courses.
   - Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
   - ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

   **TUENT Course Schedule for the Photonics Concentration**

   The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

   **Junior Year**

   **Fall**
   
   - MAC 2253
   
   - MAC 2311
   
   - PHY 2054C
   
   - PHY 2053C
   
   - PHY 2048
   
   - EST 3222
   
   - STA 2023
   
   **Spring**
   
   - MAP 3401
   
   - EET 3716
   
   - EST 4259
   
   - ENB 3216
   
   - ETI 4448

   **Senior Year**

   **Fall**
   
   - EET 4548
   
   - EET 4158C
   
   - EST 3211
   
   - EST 4227
   
   - EST 4259C

   **Spring**
   
   - EET 4548
   
   - EET 4158C
   
   - EST 3211
   
   - EST 4227
   
   - EST 4259C

   **Related Programs:** Electrical Engineering Technology (Computer Systems Concentration).

   **Related Minors:** none

   **Graduation:** none
Elementary Education (B.S.)

College of Education
Department of Teaching and Learning Principles, ED 209
http://reach.ucf.edu/~elemed1
Program Coordinator: Dr. Rosie Webb Joels, ED 122-Q
407-823-2008
Email: rjoels@pegasus.cc.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university.
- Have a minimum 2.5 overall GPA.
- Pass all parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses.

Degree Requirements
- Students should see an advisor prior to registering for classes.
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
   ENC 1101 Composition I
   ENC 1102 Composition II
   Select SPC 1600 Fundamentals of Oral Communication
   B. Cultural-Historical Foundations (9 hrs)
   Select AMH 2010 U.S. History 1492-1877
   Select AMH 2020 U.S. History 1877-Present
   Select PHI 2010 Introduction to Philosophy
   C. Mathematical Foundations (6 hrs)
   Select MGF 1106 Finite Mathematics
   Select one:
   STA 1060C Basic Statistics using MS Excel
   STA 2014C Principles of Statistics
   D. Social Foundations (6 hrs)
   Prefer POS 2041 American National Government
   Select PSY 2012 General Psychology
   E. Science Foundations (6 hrs)
   Prefer PSC 1121 Physical Science
   Select one:
   ANO 2511 The Human Species
   BSC 1005 Introduction to Biological Principles
   Note: See laboratory component under Section 2.

2. Common Program Prerequisites (29 hrs)
   A. Communications (9 hrs)
   ENC 1101 Composition I
   ENC 1102 Composition II
   Select SPC 1600 Fundamentals of Oral Communication
   B. Humanities (6 hrs)
   PHI 2010 Introduction to Philosophy
   Select one:
   ARH 2050 The History of Art I or
   ARH 2051 The History of Art II or
   MUL 2010 Enjoyment of Music or
   THE 2000 Theatre Survey or
   FIL 2400 History of Motion Pictures
   C. Mathematics (9 hrs)
   MAC 1105 College Algebra
   MGF 1106 Finite Mathematics
   One of the following (per GEP)
   STA 1060C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics
   D. Social Science/History (12 hrs)
   AMH 2010 U.S. History 1492-1877
   AMH 2020 U.S. History 1877-Present
   POS 2041 American National Government
   PSY 2012 General Psychology
   E. Science (9 hrs + lab)
   PSC 1121 Physical Science
   One of the following (per GEP)
   ANT 2511 The Human Species or
   BSC 1005 Biological Principles
   Select one:
   AST 2002 Astronomy or
   GEO 1200 Physical Geography
   Select one:

3. Recommended Sequence of Program Courses
   NOTE: This recommend sequence may vary at selected regional campus locations.
   Semester I 15 hrs
   EDG 4323 Professional Teaching Practices
   EDF 4214 Classroom Learning Principles
   LAE 3414 Children's Literature
   RED 3012 Foundations of Reading
   TSL 4080 Theory and Practice of Teaching ESL
   Students in Schools
   Semester II (Internship Block) 12 hrs
   RED 4519 Diagnostic &Corrective Reading Strategies
   MAE 4326 How Children Learn Math
   EEX 4013 Teaching Management Tech Ex Ed Student
   in the Regular Setting
   EDE 3942 Internship I
   Semester III 15 hrs
   SCG 3130 Teaching Science in the Elementary School
   SSE 3312 Teaching Social Science in the Elem School
   LAE 4314 Teaching Language Arts in the Elementary School
   ARE 4313 Teaching Art in the Elementary School
   TSL 4141 Issues in Second Language Acquisition
   Semester IV 12 hrs
   EDE 4943 Internship II
   Note: RED 4519, MAE 4326, and EEX 4013 are taken concurrently with EDE 3942
   Summer 9 hrs
   EDF 4503 Analysis of Critical Issues in Education
   MUE 3210 Teaching Music in the Elementary School
   HLP 4722 Teaching Elementary Health and
   Physical Education
   Semester III 15 hrs
   SCG 3130 Teaching Science in the Elementary School
   SSE 3312 Teaching Social Science in the Elem School
   LAE 4314 Teaching Language Arts in the Elementary School
   ARE 4313 Teaching Art in the Elementary School
   TSL 4141 Issues in Second Language Acquisition
   Semester IV 12 hrs
   EDE 4943 Internship II
   Note: All methods/specialization/foundations courses (*) must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II.

4. Foreign Language Requirements (0-8 hrs)
   State University System foreign language admission requirement:
   two years in high school or one year of college instruction in any foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

5. Departmental Exit Requirements
   - Achieve a minimum 2.5 GPA in all courses within the major.
   - Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
### 6. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### 7. Total Semester Hours Required
128 hours

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

### 8. Recommended Four-Year Sequence of Courses

#### Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>(12 hrs)</th>
<th>Spring</th>
<th>(16 hrs)</th>
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<tr>
<td>EDF 2005</td>
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<td>ENC 1101</td>
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<td>MAC 1105</td>
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<td>PHI 2010</td>
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<td>PSY 2012</td>
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<td>AST 2002</td>
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<td>POS 2041</td>
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<td>BSC 1005</td>
<td>3 hrs</td>
<td>MAE 2801L</td>
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<tr>
<td>EME 2040</td>
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<td>STA 2014C</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPC 1600</td>
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<td>Arts &amp; Scns elective</td>
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<td>ARH 2050 or</td>
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<tr>
<td>Junior Year</td>
<td>(9 hrs)</td>
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<tr>
<td>See Section 3, Semester I above</td>
<td>See Section 3, Semester II, above</td>
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#### Senior Year

<table>
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<th>Fall</th>
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<th>Spring</th>
<th>(12 hrs)</th>
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<tr>
<td>See Section 3, Semester III above</td>
<td>See Section 3, Semester IV above</td>
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</tr>
</tbody>
</table>

### 4. Technical Specialization

#### Lower Level Required and Elective Courses (28 hrs)
- EST 4502C Metrology & Instrumentation 4 hrs
- ETD 3303C Applied CADD 3 hrs
- MAC 2311 Calculus I CPP
- MAC 2312 Calculus II 3 hrs
- STAT 2023 Statistical Methods I 3 hrs
- Approved Lower Level Technical Electives 11 hrs

#### Upper Level Required Courses (21 hrs)
- EST 4520C Metrology & Instrumentation 4 hrs
- ETD 3303C Applied CADD 3 hrs
- MAC 2311 Calculus I CPP
- MAC 2312 Calculus II 3 hrs
- EST 4220 Applied Energy Systems 4 hrs
- ETD 4446 Applied Project Management 3 hrs

#### Upper Level Technical Elective (Select 4) (12 hrs)
- ETC 4206 Construction Estimating 3 hrs
- ETC 4241C Construction Materials & Methods 3 hrs
- ETC 4242 Construction Contracts & Spec 3 hrs
- ETC 4243 Building Systems 3 hrs
- ETC 4414C Applied Structural Design I 3 hrs
- ETC 4415C Applied Structural Design II 3 hrs
- EMT 4313C Applied Fluid Mechanics 4 hrs
- EMT 4512C Applied Design of Machine Elements 3 hrs
- ETL 3418C Computer Numerical Controls 3 hrs
- EMT 4323C Applied Heat Transfer 4 hrs
- EMT 4755 Applied Air Conditioning 4 hrs

#### 5. Departmental Graduation Requirement (3 hrs)
(C or better grades are required in all courses)
- ETC 4950C Senior Design Project 3 hrs
- A grade of 2.0 or better is required in all prerequisites.

#### 6. Foreign Language Requirements (0-8 hrs)
- Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

#### 7. Approved Technical Electives
Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

#### 8. University Minimum Graduation Requirements
UCF Degree Programs

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required 128 hours

Related Programs: Engineering Technology (Operations Concentration).

Transfer Notes:
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

Tentative Schedule for the Design Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

**Junior Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>13/14 hrs</th>
<th>Spring</th>
<th>13 hrs</th>
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<tr>
<td>MAC 2253/2311 Calculus I</td>
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<td>MAP 3401 Problem Analysis</td>
<td>3</td>
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<td>ETI 3651C Computer Appl</td>
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<td>ETM 4220 Energy Systems</td>
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<td>ETL 3116 App Eng Qual Assur</td>
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<td>ETI 4635 Tech Admin</td>
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<td>PHY 2063C/2048 Physics I</td>
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<td>ETD 3350C Appl CAD</td>
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<th>Summer</th>
<th>10 hrs</th>
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<td>ETC/ETI Elective</td>
<td>3</td>
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<tr>
<td>EMT 4331C Appl Fluid Mech</td>
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<tr>
<td>ETI 4448 Applied Proj Mgmt</td>
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<table>
<thead>
<tr>
<th>Senior Year</th>
<th>15 hrs</th>
<th>Spring</th>
<th>17 hrs</th>
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<tbody>
<tr>
<td>ETL 3421 Materials &amp; Processes</td>
<td>3</td>
<td>EST 4502C Metro I Instr</td>
<td>4</td>
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<tr>
<td>ETL 3543C Prog Log Controllers</td>
<td>3</td>
<td>ETG 4950C Sr Design Proj</td>
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<td>ETC 3481 App Mechanics</td>
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<td>ETC 4242 Contract &amp; Spec</td>
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<td>ENC 3241 Tech Report Writ</td>
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<td>ETI 3671 Tech Econ Anal</td>
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</tbody>
</table>

**ENGINEERING TECHNOLOGY - OPERATIONS CONCENTRATION (B.S.E.T.)**

College of Engineering and Computer Science Engineering Technology (ENT) Department, ENGR 207 http://www.ent.ucf.edu

Coordinator: Lucy Morse
407-823-4742, Fax: 407-823-4746

Admission Requirements none

Degree Requirements

- Students should check with their ENT advisor frequently to insure that they are making proper progress toward the degree.

A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. **UCF General Education Program** (36+2 hrs)
   - A. Communication Foundations (9 hrs)
     - 1. ENC 1101, & ENC 1102
     - 2. Prefer SPC 1016
   - B. Cultural and Historical Foundations (9 hrs)
     - 1. Select MAC 1105
     - 2. select STA 2023
   - C. Mathematical Foundations (6 hrs)
     - 1. Select MAC 1105
   - D. Social Foundations (6 hrs)
     - 1. Select PHY 2053C
   - E. Science Foundations (8 hrs)
     - 1. Select PHY 2053C
     - 2. ANT 2011, BSC 1105, BSC 1050, GYL 1030, GEO 1200 or MCB 1310

2. **Common Program Prerequisites (CPP)** (6/8 hrs)
   - (C or better grades are required in all courses)
     - MAC 2253 or Calculus I
     - MAC 2311
     - MAC 2545 or Calculus II or equiv
     - MAC 2312
     - PHY 2053C or PHY 2048/L

3. **Engineering Technology Core Requirements** (21 hrs)
   - ANT 2511, BSC 1005, BSC 1050, GEO 1200, GEO 2370, or GYL 1030
     - ENC 2421 Writing for the Technical Professional
     - MAC 1105 College Algebra
     - MAC 1114 College Trigonometry
     - MAC 2523 Calculus I
     - MAC 2311
     - MAP 3401 Problem Analysis
     - MAC 2312 Calculus II
     - PHY 2053C College Physics I
     - ETG 3541 Applied Mechanics
     - ETI 3651C Computer Applications
     - ETI 3671 Technical Economic Analysis
     - ETI 3116 Applied Engineering Quality Assurance
     - ETI 4635 Technology Administration

4. **Technical Specialization** (60 hrs)
   - (C or better grades are required in all courses except the lower level technical electives)

   **Lower Level Required and Elective Courses** (28 hrs)
   - EST 3543C Programmable Logic Controllers
     - 3 hrs
   - CHM 1032, 1032L General Chemistry, Lab
     - 4 hrs
   - CET 2364 Systems Application in C
     - 3 hrs
   - EET 3085C Electricity and Electronics
     - 4 hrs
   - EGN 1111C Eng Computer Graphics
     - 2 hrs
   - STA 2023 Statistical Methods I
     - 3 hrs
   - Approved Lower Level Technical Electives
     - 11 hrs

   **Upper Level Required Courses** (16 hrs)
   - ETI 4640 Operations Management
     - 3 hrs
   - ETG 3550C Applied CADD
     - 3 hrs
   - ETI 3421 Materials & Processes
     - 3 hrs
   - EMT 4220 Applied Energy Systems
     - 4 hrs
   - ETI 4448 Applied Project Management
     - 3 hrs

   **Upper Level Technical Elective (Select 5)** (17 hrs)
   - ETI 3690 Technical Sales
     - 3 hrs
   - ETL 4186 Applied Reliability
     - 3 hrs
   - ETI 4205 Applied Logistics
     - 3 hrs
   - ETG 3533C Applied Engineering Strength of Materials
     - 4 hrs
   - ETI 4661C Applied Facilities Planning & Design
     - 3 hrs
   - ETI 4700 Occupational Safety
     - 3 hrs
   - ETI 4502C Metrology & Instrumentation
     - 4 hrs
   - EMT 4331C Applied Fluid Mechanics
     - 4 hrs
   - ETI 3418C Computer Numerical Controls
     - 3 hrs

5. **Departmental Graduation Requirement** (3 hrs)
   - (C or better grades are required in all courses)
     - ETG 4950C Senior Design Project
     - 3 hrs
   - A grade of 2.0 or better is required for all prerequisites.

6. **Foreign Language Requirements** (0-8 hrs)
   - Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

   Graduation: none
7. Approved Technical Electives
Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required 128 hours

Related Programs: Engineering Technology (Operations Concentration).
Related Minors: none

Transfer Notes:
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution must have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly scheduled 3000- or 4000-level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

Tentative Course Schedule for the Operations Concentration
The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year
Fall 13/14 hrs Spring 13 hrs
MAC 2253/2311 Calculus I 3/4 MAP 3401 Problem Analysis 3
PHY 2053C/2048 Physics I 4 ETG 3541 Mechanics 3
ETI 3651C Comp Appl 3 EMT 4220 Energy Systems 4
ETI 4640 Operations Mgmt 3 ETI 4635 Tech Admin 3
Summer 10 hrs
ETI 4700 Occup Safety 3
ETM 4331C Appl Fluid Mech 4
ETI 4448 Applied Proj Mgmt 3
Senior Year
Fall 15 hrs Spring 13 hrs
ETI 3421 Matrls & Process 3 ENC 3241 Tech Report Writ 3
ETI 4205 App Logistics 3 ETG 4590 Sr Design Proj 3
ETD 3350C App CAD 3 ETI Elective 3
ETI 3116 Appl Engr Dual Assur 3 ETG 3533C Eng Strength Matls 4
ETI 3671 Tech Econ Anal 3

ENGINEERING TECHNOLOGY - SPACE SYSTEMS CONCENTRATION (B.S.E.T.)
College of Engineering and Computer Science
Engineering Technology (ENT) Department
Florida Space Institute
Kennedy Space Center, FL32899
http://www.ENT.ucf.edu
Coordinator: Dr. Nebil Misconi 407-823-4751 or 321-459-0199

Admission Requirements: none

Degree Requirements:
- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (36+2 hrs)
A. Communication Foundations 9 hrs
1. ENC 1101, ENC 1102
2. Prefer SPC 1016
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
1. Select MAC 1105
2. select STA 2023
D. Social Foundations 6 hrs
E. Science Foundations 8 hrs
1. Select PHY 2053C or PHY 2048
2. ANT 2011, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310

2. Common Program Prerequisites (CPP) (6/8 hrs)
(C or better grades are required in all courses)
MAC 2253 or Calculus I 3/4 hrs
MAC 2311
MAC 2254 or Calc II 3/4 hrs
MAC 2312 Calc II 3/4 hrs
PHY 2053C or Physics I/Lab
PHY 2048

3. Engineering Technology Core Requirements (24 hrs)
AST 2002 Astronomy 3 hrs
ENC 3241 Writing for the Technical Professional 3 hrs
MAC 1105 College Algebra GEP
MAC 1114 College Trigonometry 3 hrs
MAC 2253 Calculus I or GEP
MAC 2311
MAP 3401 Problem Analysis or
MAC 2312 Calculus II 3 hrs
PHY 2053C College Physics I 3 hrs
ETG 3541 Applied Mechanics 3 hrs
ETI 3651C Computer Applications 3 hrs
ETI 3671C Technical Economic Analysis 3 hrs
ETI 3116 Applied Engineering Quality Assurance 3 hrs
ETI 4448 Project Management 3 hrs

4. Technical Specialization (57 hrs)
(C or better grades are required in all courses except lower level technical electives)

Lower Level Required and Elective Courses (24 hrs)
EST 3543C Prog Logic Controllers 3 hrs
EEN 1022, 1032L General Chemistry with Lab 4 hrs
CET 2364 Systems Appl. in C 3 hrs
EET 3085C Electricity and Electronics 4 hrs
EGN 1111C Engr Computer Graphics 2 hrs
STA 2023 Statistical Methods I 3 hrs

Approved Lower Level Technical Electives 8 hrs

Upper Level Required and Elective Courses (21 hrs)
EST 4502C Metrology & Instrumentation 4 hrs
ETD 3350C Applied CADD 3 hrs
ETG 3533C Applied Engineering Strength of Materials 4 hrs
ETI 4202 Applied Energy Systems 4 hrs
ETI 4835 Rocket Propulsion Technology 3 hrs
ETI 4836 Space Systems Technology 3 hrs

Upper Level Technical Electives (Select 4) (12 hrs)
ETI 4837C Technology of Small Space Payloads 3 hrs
ETI 4382C Launch Processing Technology 3 hrs
ETI 4839 Space Ctr Electric Optics Technology 3 hrs
ETI 4150 Spacecraft QA and Testing 3 hrs
ETI 4381 Ground System Design 3 hrs
EST 3222 Intro to Photonics 3 hrs

UCF Degree Programs

151
5. Departmental Graduation Requirement (3 hrs)
(C or better grades are required in all courses)
ETG 4950C Senior Design Project 3 hrs
A grade of 2.0 or better is required for all prerequisites.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: None

7. Approved Technical Electives
Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required 128 hours
Related Programs: Engineering Technology (Operations Concentration).
Related Minors: None
Transfer Notes:
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly scheduled 3000- or 4000-level courses taken from the UCF ENT Department.
- PHY 2048L and 2049L substitute for PHY 2053C and PHY 2054C respectively.

Tentative Course Schedule for the Space Systems Concentration
The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year
Fall 15/16 hrs
MAC 2233/2311 Calculus I 3 hrs
ETD 3350 Applied CAD 3 hrs
ETI 3116 App Eng Qual Assur 3 hrs
EST 3543 Prog Log Control 3 hrs
ETI 4836 Space Systems Tech 3 hrs
Spring 14 hrs
ENG 3014 Theory & Tech of Literary Study 3 hrs
ETM 4220 Energy Systems 4 hrs
ETG 3533 Eng Strength of Mat 4 hrs
ETI Elective 3 hrs
Summer 8 hrs
ENC 3241 Tech Report Writing 3 hrs
ETI 3671 Tech Econ Analysis 2 hrs
ETI Elective 3 hrs
Senior Year
Fall 13 hrs
ETT 3085 Elect & Electronics 4 hrs
ETI 4835 Rocket Prop Tech 3 hrs
ETI Elective 3 hrs
ETI Elective 3 hrs
Spring 13 hrs
ETG 4502C Metro I Instr 4 hrs
ETG 4590C Sr Design Proj 3 hrs
ETI Elective 3 hrs
ETI Elective 3 hrs

ENGLISH - CREATIVE WRITING (B.A.)
College of Arts and Humanities
English Department, CNH 301,
http://english.ucf.edu
E-mail: english@ucf.edu
T. Krise, 407-823-2212

Admission Requirements: None
Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog
- Students must earn at least a “C” (2.0) in each required course
- Co-op or internship credit cannot be used in the major without prior approval from the department
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department

Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

Admission Requirements: None
Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog
- Students must earn at least a ÒCÓ (2.0) in each required course
- Co-op or internship credit cannot be used in the major without prior approval from the department
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department

Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

Honors in English Degree: Additional Requirements (9 hrs)
Application and admission through the English Honors Committee and the Honors College
Fulfill University requirements for Honors in the Major
Grade of ÔBÓ (3.0) or better in 5000 level English elective (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).
Successful completion and oral defense of honors thesis

1. UCF General Education Program (36 hrs)
A. Communication Foundations
Select ENC 1101 and ENC 3102 6 hrs
Prefer SPC 1600 Fund of Oral Com 3 hrs
B. Cultural and Historical Foundations
Select one class from 1.B.1 list 3 hrs
Prefer LIT 2110 World Literature I 3 hrs
Prefer LIT 2120 World Literature II 3 hrs
C. Mathematical Foundations
Prefer MGF 1106 Finite Mathematics 3 hrs
(may substitute a higher level math) Prefer STA 1060C Statistics Using Excel 3 hrs
D. Social Foundations
Prefer ENL 3012 History of the U.S. 3 hrs
Prefer ENL 3014 History of the World 3 hrs
E. Science Foundations
Prefer ENL 2070 Environmental Science 3 hrs
Prefer PHY 2048L and 2049L 6 hrs

2. Common Program Prerequisites
ENC 1101 Composition I
ENC 1102 Composition II
*See Transfer Notes for possible substitutes

3. Core Requirements (6 hrs)
CRW 3013C Creative Writing for English Majors 3 hrs
ENL 3014 Theory & Tech of Literary Study 3 hrs
This is a prerequisite for all 4000 level AML, ENG, ENL, or LI7 courses
4. Literary History Requirement (12 hrs)
Choose four courses from these two groupings
a. Select at least one of these pre-1865 literature courses.
AML 3031 American Literature I
AML 3613 Narratives of Slavery
AML 4304 Whitman & Heirs
ENL 2012 English Literature I
ENL 4220 English Renaissance Poetry and Prose
ENL 4230 Eighteenth Century Studies
ENL 4240  English Romantic Writers
ENL 4311  Chaucer
ENL 4333  Shakespeare
ENL 4341  Milton and His Age
LIT 4374  Literature of the Bible

b. Select at least one of these post 1865 literature courses

AML 3041  American Literature II
AML 3283  Contemp American Women’s Fiction
AML 3614  Topics in African American Literature
AML 3615  Harlem, Haiti, and Havana
AML 3640  Native American Literature
AML 410  American Novel
AML 4153  American Poetry at Mid-Century
AML 4195  Modern American Poetry
AML 4261  Literature of the South
AML 4265  Florida Writers
AML 4321  Modern American Literature
AML 4630  Latino/Latina Literature
ENL 2022  English Literature II
ENL 4101  English Novel
ENL 4253  The Victorian Age: Poetry
ENL 4262  Nineteenth Century British Prose
ENL 4273  Modern British Literature
LIT 3082  Continental European Fiction Since 1900
LIT 3102  Caribbean Literature
LIT 4043  Modern Drama as Literature
LIT 4184  Irish Literature
LIT 4303  Post-World War II Fiction

Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

5. Restricted Electives (18 hrs)

a. Choose one of the following: 3 hrs

  LIN 3010  Intro to Linguistics
  LIN 4100  History of the English Language
  LIN 4603  Cross Cultural Communication

b. Choose two of the following: 6 hrs

  CRW 3120  Fiction Writing Workshop
  CRW 3211  Creative Nonfiction Writing
  CRW 3310  Poetry Writing Workshop

  CRW 4122*  req# 5c-ResEl 3
  CRW 3013  Creativ Wr Eng Maj 3

  CRW 4122*  req# 5c-ResEl 3 Elective* Check restrictions 3

  AML 3041* req# 4b-LitHis 3
  CRW 3120* req# 5b-ResEl 3
  ENG 3014  Theor Tech of St 3
  ENL 2022* req# 4b-LitHis 3
  ENL 2014  World Literature II 3
  LIT 2110 World Literature I 3

  ENG 3014  Theor Tech of St 3
  ENL 2022* req# 4b-LitHis 3
  ENL 2014  World Literature II 3
  LIT 2110 World Literature I 3


6. Departmental Exit Requirements

Maintain a minimum GPA of 2.0 in upper division required courses Computer Competency met by completion of CRW 3013

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

8. Electives (variable)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed

- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Technical Writing, Literature

Related Minors: Linguistics, Technical Writing, Writing

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites to the BA in Creative Writing if taken prior to transferring to UCF: ENC 1101* & 1102*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. ENC 1101 & 1102, however, are prerequisites for all subsequent English courses and will need to be taken for the major.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ENC 1101 Composition I</td>
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<tr>
<td>HUM 2210* req# 1B1-GEP</td>
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<tr>
<td>MGF 1101* req# 1C1-GEP</td>
<td>3</td>
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<tr>
<td>POS 2041* req# 1D1-GEP</td>
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<tr>
<td>SPR 1600* req# 1A3-GEP</td>
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<tr>
<td>SPN 1120* req# Lang/Elec</td>
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Spring

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<tr>
<td>ENC 1101 Composition I</td>
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<td>HUM 2210* req# 1B1-GEP</td>
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<td>MGF 1101* req# 1C1-GEP</td>
<td>3</td>
</tr>
<tr>
<td>POS 2041* req# 1D1-GEP</td>
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<tr>
<td>SPR 1600* req# 1A3-GEP</td>
<td>3</td>
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<tr>
<td>SPN 1120* req# Lang/Elec</td>
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Sophomore Year

Fall

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<tr>
<td>BSC 1005* req# 1E2-GEP</td>
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<tr>
<td>LIT 2120 World Lit II</td>
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<tr>
<td>PSY 2012* req# 1D2-GEP</td>
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<tr>
<td>Elective* Check restrictions</td>
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</tr>
<tr>
<td>SPN 1121* req# Lang/Elec</td>
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<tr>
<td>CRW 3111* &amp; 1102*</td>
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Spring

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<tr>
<td>ENG 3014 Theor Tech of St</td>
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<tr>
<td>AML 3041* req# 4b-LitHis</td>
<td>3</td>
</tr>
<tr>
<td>CRW 3211* req# 5c-ResEl</td>
<td>3</td>
</tr>
<tr>
<td>Elective* Check restrictions</td>
<td>3</td>
</tr>
<tr>
<td>CRW 3211* req# 5c-ResEl</td>
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<tr>
<td>Elective* Check restrictions</td>
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Junior Year

Fall

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</tr>
<tr>
<td>CRW 3120* req# 5b-ResEl</td>
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<td>Elective* Check restrictions</td>
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Spring

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<th>Course</th>
<th>Credits</th>
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<td>SPN 1120* req# Lang/Elec</td>
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<tr>
<td>CRW 3120* req# 5b-ResEl</td>
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Senior Year

Fall

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<tr>
<td>LIN 4100* req# 5a-ResEl</td>
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<tr>
<td>CRW 4122* req# 5c-ResEl</td>
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<td>Elective* Check restrictions</td>
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</tbody>
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Spring

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>CRW 3120* req# 5b-ResEl</td>
<td>3</td>
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<tr>
<td>Elective* Check restrictions</td>
<td>3</td>
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</tbody>
</table>

ENGLISH LANGUAGE ARTS EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles

ED 205; http://pegasus.cc.ucf.edu/~englae

Program Coordinator: Dr. Denise Ousley

ED 122-L, 407-823-1142

E-mail: dousley@mail.ucf.edu

Admission Requirements:

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses
Degree Requirements:
- Students should see an advisor prior to registering for classes.
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
   - ENC 1101 Composition I
   - ENC 1102 Composition II
   - Select SPC 1600 Fundamentals of Oral Communication
   B. Cultural-Historical Foundations (9 hrs)
   - Select AMH 2010 U.S. History 1492-1877
   - Select AMH 2020 U.S. History 1877-Present
   - Select PHI 2010 Introduction to Philosophy
   C. Mathematical Foundations (6 hrs)
   - Select one:
     - MGF 1106 Finite Mathematics
     - STA 1060C Basic Statistics using MS Excel
   D. Social Foundations (6 hrs)
   - Select POS 2041 American National Government
   - Select PSY 2012 General Psychology
   E. Science Foundations (6 hrs)
   - Select one:
     - PHI 2010 Introduction to Philosophy
   - Select one:
     - ANT 2511 The Human Species
     - BSC 1005 Biological Principles

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)
   A. Communications
   - ENC 1101 Composition I
   - ENC 1102 Composition II
   - SPC 1600 Fundamentals of Oral Communication
   B. Humanities
   - PHI 2010 Introduction to Philosophy
   - Select one:
     - ARH 2050 History of Western Art I
     - ARH 2051 History of Western Art II
     - MUL 2010 Enjoyment of Music
     - THE 2000 Theatre Survey
   - Select one:
     - FIL 2400 History of Motion Pictures
   C. Mathematics
   - MAC 1105 College Algebra
   - MGF 1106 Finite Mathematics
   - One of the following (per GEP)
     - STA 1060C Basic Statistics using MS Excel
     - STA 2014C Principles of Statistics
   D. Social Science/History
   - Select one:
     - AMH 2010 U.S. History 1492-1877
     - AMH 2020 U.S. History 1877-Present
     - POS 2041 American National Government
   - Select one:
     - PSY 2012 General Psychology
   E. Science
   - Select one:
     - PSC 1121 Physical Science
     - One of the following (per GEP)
   - Select one:
     - ANT 2511 The Human Species
     - BSC 1005 Biological Principles
   F. Education Courses
   - Select one:
     - LAE 4360 Eng Instructional Analysis
     - LAE 4361 Literacy Strategies for Mid/High Schools
     - LIT 2110 World Literature I
   - Select one:
     - CRW 3013 Intro Creative Writing
     - ENC 3311 Advanced Expository Writing
     - LIN 4680 Modern English Grammar
     - ENG 3014 Theories of Literature
   G. Diversity Courses
   - Select one:
     - AMH 3031 American Literature I
     - AML 3031 American Literature I
     - AML 3041 American Literature II
   - Select one:
     - EDG 2701 Teaching Diverse Populations
     - EDF 4080 Theory and Practice of Teaching ESOL
     - ENL 2012 English Literature I to 1798
     - EDG 2701 Teaching Diverse Populations

4. Education Core Requirements (15 hrs)
   - *EDG 4323 Professional Teaching Practices
   - EDF 4603 Analysis of Critical Issues in Education
   - *EDF 4214 Classroom Learning Principles
   - *TSL 4080 Theory and Practice of Teaching ESOL

5. Program Core Requirements (13 hrs)
   - *LAE 4464 Adolescent Lit
   - LAE 4361 Literacy Strategies for Mid/High Schools
   - LAE 4360 Eng Instructional Analysis
   - LAE 4342 Teaching Lang/Comp

6. Internship I (ESE 3940) (3 hrs)
   - Course prerequisite: EDG 4323 (Minimum grade: **C-**)
   - Additional program prerequisites for Internship I: EDG 4323, EDF 4214, LAE 4464, TSL 4080 (Minimum grade: **C-** in each of these courses)*
   - Corequisites: LAE 4360 and LAE 4342
   - See additional requirements under College of Education, Office of Clinical Experiences

7. Internship II (ESE 4943) (12 hrs)
   - All methods courses and at least 80% of all specialization courses must be completed before registering for Internship II
   - See additional requirements under College of Education, Office of Clinical Experiences
   - Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.065

8. Foreign Language Requirements (0-8 hrs)
   - State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

9. Departmental Exit Requirements
   - Achieve a minimum 2.5 GPA in all courses within the major.
   - Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
   - Complete a TESOL notebook as required for ESOL Endorsement.
   - Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements
    - A 2.0 UCF GPA
    - 60 semester hours earned after CLEP awarded
    - 48 semester hours of upper division credit completed
    - 30 of the last 36 hours of course work must be completed in residence at UCF
    - 25% of course work must be completed in residency at UCF
    - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. Total Semester Hours Required 128 hours
    At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

12. Recommended Four-Year Sequence of Courses
    | Fall       | (12 hrs) | Spring    | (16 hrs) |
    |------------|----------|-----------|----------|
    | ENL 2012   | 3 hrs    | ENL 2022  | 3 hrs    |
    | ENL 2110   | 3 hrs    | ENL 2120  | 3 hrs    |
    | AML 3031   | 3 hrs    | AML 3041  | 3 hrs    |
    | EDG 2701   | 3 hrs    | MGF 1106  | 3 hrs    |
    | ENL 1101   | 3 hrs    | EDG 2701  | 3 hrs    |
    | ENC 3311   | 3 hrs    | ENC 1102  | 3 hrs    |
    | MGF 1106   | 3 hrs    | MAC 1105  | 3 hrs    |
### UCF Programs

#### English LITERATURE (B.A.)
College of Arts and Humanities
English Department, CNH 301,
http://english.ucf.edu
E-mail: english@ucf.edu
T. Krise, 407-823-2212

**Admission Requirements**

- **none**

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course.
- **Co-op or internship credit is not accepted in the major.**
- Students should consult with a departmental advisor.
- **Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department.**
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

**Honors in English Degree:**

**Additional Requirements**

- Application and admission through the English Honors Committee and the Honors in the Major Program.
- Fulfill University requirements for Honors in the Major.
- Grade of “B” (3.0) or better in 5000 level English elective (3 hrs).
- Directed Readings (3 hrs), and Thesis hours (3 hrs).
- Successful completion and oral defense of honors thesis.

**1. UCF General Education Program**

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<tr>
<th>Course</th>
<th>Semester</th>
<th>Hours</th>
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<tr>
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<tr>
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<td>Fall</td>
<td>3</td>
</tr>
<tr>
<td>PSC 1121</td>
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<tr>
<td>PSC 1121L</td>
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<td>3</td>
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<tr>
<td>POS 2041</td>
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<tr>
<td><strong>Sophomore Year</strong></td>
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<tr>
<td>Fall</td>
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</tr>
<tr>
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<td>BSC 1005</td>
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<td>3</td>
</tr>
<tr>
<td>LIT 2110</td>
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<td>3</td>
</tr>
<tr>
<td>SPC 1600</td>
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</tr>
<tr>
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<td>Fall</td>
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<td>ENG 3010</td>
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</tr>
<tr>
<td>LAE 4360</td>
<td>Spring</td>
<td>3</td>
</tr>
</tbody>
</table>

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**2. Common Program Prerequisites**

- **ENC 1101** Composition I
- **ENC 1102** Composition II
- **ENG 3014** Theory and Practice of Technical Writing

---

**3. Core- Gateway Courses**

- **6 hrs**
  - Choose one gateway course:
    - **ENG 3014** Theory and Practice of Technical Writing

---

**4. Literary History Requirement**

- **15 hrs**
  - Choose five courses from the two groupings:
    - a. **Select at least two of these pre-1865 literature courses.**
      - AML 3031 American Literature I
      - AML 3613 Narratives of Slavery
      - AML 4304 Whitman & Heirs
      - ENL 4230 English Renaissance Poetry and Prose
      - ENL 4230 Eighteenth Century Studies
      - ENL 4240 English Romantic Writers
      - LIT 4374 Literature of the Bible
    - b. **Select at least two of these post-1865 literature courses.**
      - AML 3041 American Literature II
      - AML 3283 Contemp American Women’s Fiction
      - AML 3614 Topics in African American Literature
      - AML 3615 Harlem, Haiti, and Havana
      - AML 3640 Native American Literature
      - AML 4101 American Novel
      - AML 4153 American Poetry at Mid-Century
      - AML 4155 Modern American Poetry
      - AML 4261 Literature of the South
      - AML 4265 Florida Writers
      - AML 4321 Modern American Literature
      - AML 4630 Latino/Latina Literature
      - ENL 2022 English Literature I
      - ENL 4101 English Novel
      - ENL 4253 The Victorian Age: Poetry
      - ENL 4262 Nineteenth Century British Prose
      - ENL 4273 Modern British Literature
      - LIT 3082 Continental European Fiction Since 1900
      - LIT 3192 Caribbean Literature
      - LIT 4045 Modern Drama as Literature
      - LIT 4184 Irish Literature
      - LIT 4303 Post-War World II Fiction

---

**5. Upper Division Requirements**

- **15 hrs**
  - a. Choose one single author or major author course:
    - 3 hrs
  - Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

---

**6. Departmental Exit Requirements**

- Maintain a minimum GPA of 2.0 in upper division required courses. Computer Competency met by completion of ENG 3014.

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**7. Foreign Language Requirements**

- **0-8 hrs**
  - Admission: Met by graduation requirement
  - Graduation: Proficiency equivalent to three semesters of college
## UCF Degree Programs

### ENGLISH - TECHNICAL WRITING (B.A.)
#### College of Arts and Humanities
English Department, CNH 301
http://english.ucf.edu
E-mail: english@ucf.edu

T. Krise, 407-823-2212

### Admission Requirements
- None

#### Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

#### Honors in English Degree: Additional Requirements
- Application and admission through the English Honors Committee and the Honors College.
- Fulfill University requirements for Honors in the Major.
- Grade of “B” (3.0) or better in 5000 level English elective (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).
- Successful completion and oral defense of honors thesis.

### 1. UCF General Education Program (36 hrs)

A. Communication Foundations
- Select one of the following 3 hrs
  - ENL 3012 English Literature I
  - CRW 3013 Writing for the Technical Professional
  - OR
  - ENG 3014 Theory & Practice of Technical Writing

B. Cultural and Historical Foundations
- Select one of the following 6 hrs
  - AML 3031 American Literature I
  - AML 3283 Contemp American Women's Fiction
  - OR
  - AML 3615 Harlem, Haiti, and Havana

C. Mathematical Foundations
- Select one of the following 3 hrs
  - ENL 4311 Chaucer
  - ENL 4333 Shakespeare

D. Social Foundations
- Select one of the following 3 hrs
  - ENL 4341 Milton and His Age
  - ENL 4374 Literature of the Bible

E. Science Foundations
- Select one of the following 3 hrs
  - ENL 4333 Literature of the Bible

#### Core courses-Basic

- Select one of the following 3 hrs
  - ENL 3012 English Literature I

### 2. Common Program Prerequisites

#### Honors in English Degree: Additional Requirements
- Application and admission through the English Honors Committee and the Honors College.
- Fulfill University requirements for Honors in the Major.
- Grade of “B” (3.0) or better in 5000 level English elective (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).
- Successful completion and oral defense of honors thesis.

#### Course Requirements

- Select at least one of these pre-1865 literature courses.
  - AML 3031 American Literature I
  - AML 3613 Narratives of Slavery
- Select at least one of these post-1865 literature courses.
  - AML 4304 Whitman & Heirs
  - ENL 4220 English Renaissance Poetry and Prose
  - ENL 4230 Eighteenth Century Studies
  - ENL 4240 English Romantic Writers
  - ENL 4311 Chaucer

### 3. Core courses-Basic

- Select one of the following 3 hrs
  - ENL 3012 English Literature I

### 4. Literary History Requirement

- Select at least one of these post-1865 literature courses.
  - AML 3041 American Literature II
  - AML 3283 Contemp American Women's Fiction
  - AML 3615 Harlem, Haiti, and Havana
  - AML 3640 Native American Literature

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### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

<table>
<thead>
<tr>
<th>Fall</th>
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<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>CHM 1020* req# 1E1-GEP</td>
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<tr>
<td>HUM 2210* req# 1B1-GEP</td>
<td>ENC 1102 Composition II</td>
</tr>
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<td>MGF 1101* req# 1C1-GEP</td>
<td>STA 1060C Stat Using Excel</td>
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<td>LIN 4100* req# 1B2-GEP</td>
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<td>SPC 1600* req# 1A3-GEP</td>
<td>ENL 4333 Shakespeare</td>
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<td>LIT 2120 World Lit II</td>
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<td>PSTY 2012* req# 1B2-GEP</td>
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<td>SPN 1121* req# Lang/Elect</td>
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<td>ENL 2022* req# 4b-Hist</td>
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<td>LIN 4100* req# 5a-UD</td>
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<td>ENL 4253* req# 5c-UD</td>
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<tr>
<td>Elective* Check restrictions</td>
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</table>

Total Semester Hours Required: 120 hours

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### Transfer Notes:

Courses taken at community colleges do not substitute for Upper Division courses.

Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

### Acceptable Substitutes:

For common program prerequisites to the BA in Literature if taken prior to transferring to UCF:

- ENC 1101 & 1102: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. However, ENC 1101 & 1102 are prerequisites for all subsequent English courses and will need to be taken for the major.

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### Related Programs:

Creative Writing, Technical Writing

### Related Minors:

Creative Writing, Linguistics, Technical Writing, Writing

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### ENGLISH Department, CNH 301

E-mail: english@ucf.edu

T. Krise, 407-823-2212

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## UNIVERSITY OF CENTRAL FLORIDA

2006-2007 Undergraduate Catalog

156
A. Communication Foundations 9 hrs
   1. ENC 1101 & ENC 1102
   2. Prefer SPC 1016
B. Cultural and Historical Foundations 9 hrs
   1. Select two courses from Historical Foundations
   2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FL 1001, REL 2300,
      PHI 2010, LIT 2110, or LIT 2120
C. Mathematical Foundations 7 hrs
   1. Select MAC 2311 (PR: MAC 1144)
   2. Select STA 3032 (PR: MAC 2312)
D. Social Foundations 6 hrs
   1. Prefer ECO 2013 or ECO 2023
   2. ANT 2000, PSY 2012, or SYG 2000
E. Science Foundations 7 hrs
   1. Select PHY 2048/48L (PR: MAC 2311)
   2. Prefer GEO 1200

(Note: Environmental Engineering Majors must satisfy both an Earth Science requirement AND a Biological Science requirement).

2. Common Program Prerequisites (CPP’s) (19 hrs)
   These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

   CHM 2045/45L Chemistry Fundamentals I 4 hrs
   MAC 2311 Calculus with Analytic Geometry I 4 hrs
   MAC 2312 Calculus with Analytic Geometry II 4 hrs
   MAC 2313 Calculus with Analytic Geometry III 4 hrs
   MAP 2302 Differential Equations 3 hrs
   PHY 2048/48L Physics for Engineers & Scientists I 4 hrs
   PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
   ENC 1101 Composition I 3 hrs
   ENC 1102 Composition II 3 hrs
   Humanities Courses 3 hrs
   Social Science Courses 3 hrs
   Humanities or Social Sciences 3 hrs

3. Courses Required for the Major (57 hrs)
   The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do satisfy major requirements and normally are awarded grades of I, S, or U.

   EGN 1006C Intro to the Engineering Profession 1 hr
   EGN 1007C Engineering Concepts & Methods 1 hr
   CHEM 2045/45L Chemistry Fundamentals II w/Lab 4 hrs
   MAC 2311 Calculus with Analytic Geometry I 4 hrs
   PHY 2048/48L Physics for Engineers & Scientists I 4 hrs
   PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
   ENC 3310 Engineering Analysis - Statics 3 hrs
   ENC 3321 Engineering Analysis - Dynamics 3 hrs
   EGN 3331 Mechanics of Materials 3 hrs

ENVIRONMENTAL ENGINEERING (B.S.Env.E.)
College of Engineering and Computer Science
Civil & Environmental Engineering Department (CEE),
ENG 211, 407-823-2841, Fax: 407-823-3315,
http://www.engr.ucf.edu

Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl,
E-Mail: cpohl@mail.ucf.edu

Associate Chair: Shiou-San Kuo, Ph.D. P.E., E-Mail:
Environmental Program Coordinator: C. David Cooper, Ph.D., P.E., E-mail: cooper@mail.ucf.edu

Admission Requirements:
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes.

Degree Requirements
Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.
Note: Environmental engineering majors must complete both Earth Science and Biological Science coursework. See assigned academic advisor for list of approved courses.

4. Approved Technical Electives (8 hrs)
Technical electives are available in the BSEnvE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)
- Approved EnvE Design Course I 3 hrs
- Approved EnvE Design Course II 3 hrs
- Earn a minimum graduating GPA of 2.250 in the Major Courses

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

7. University Minimum Graduation Requirements
- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residence at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs
Related Programs: Chemistry, Civil Engineering.
Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen
The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Environmental Engineering - 128 semester hours required

FIRST YEAR
Fall 14 hrs Spring 15 hrs
*ENC 1101 English Comp I 3 *ENC 1102 English Comp II 3
*MAC 2311 Calc w/Analy Geo I 4 *MAC 2312 Calc w/Analy Geo II 4
*ECE 2023 Microelectronics 3 *PHY 2049L Phys Engr I w/lab 3

SECOND YEAR
Fall 16 hrs Spring 17 hrs
*MPC 2313 Calc w/Analy Geo III 4 *MAP 2302 Diff Equations 3
*CHM 2045 Chemistry Foods I 4 *CHM 2045L Chem Fund III/lab 4
*HUM/AMH/EUH I 3 *PHY 2049L Phys Engr &Sci II 4
ENV 3310 Engr Anal-Statics 3 *HUM/AMH/EUH II 3
ENV 3613 Engr'ng Econ Anal 3 ENV 3321 Engr Anal-Dynamics 3
Summer 9 hrs
*Biological Science 3
ENV 3434 Thermodynamics 3
ENV 3001 Intro to Engr Env 3

THIRD YEAR
Fall 15 hrs Spring 15 hrs
CWR 3201 Engr Fluid Mech 3 CWR 4101C Hydrology 3
EGN 3311 Mech of Materials 3 CWR 4203C Hydrodynamics 3
STA 3032 Probility/Stats for Eng 3 ENV 4120 Air Pollution Control 3
ENV 4431 Solid/Haz Waste 3 *Cultural/Historical Elective 3
CCE 4003 Intro to Constr Indus 3 EGN 3373 Pm Engr Env 3

FOURTH YEAR
Fall 13 hrs Spring 14 hrs
Technical Elective 3 Approved Proj Design Course 3
ENV 4561 Process Design 4 EES 4111C Bidged Proc Cntrl 3
EES 4202C Cheml Proc Control 3 Technical Elective 3
Approved Proj Design Course 3 Technical Elective 3
*ANT/PSY/SYG 3

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

BS to PhD Program
The Environmental Engineering program offers the opportunity for exceptionally well qualified undergraduates to enter directly into the PhD program after completion of an appropriate BS degree. This option allows outstanding undergraduates to begin planning a research program with a specific faculty advisor even before finishing the BS, and may allow completion of the PhD in a shorter time period than by taking a separate Master’s followed by the PhD.

ENVIRONMENTAL STUDIES TRACK
See Liberal Studies – Environmental Studies Track

EVENT MANAGEMENT (B.S.)
Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam
Degree Requirements
1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
   Select MAC 1105 College Algebra 3 hrs
   Select CDS 2100CC Computer Fundamentals for Bus or 3 hrs
   STA 2033 Statistical Methods I 3 hrs
D. Social Foundations
   Select ECO 2013 Macroeconomics or 3 hrs
   ECO 2023 Microeconomics
   Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
E. Science Foundation 6 hrs

2. Common Event Degree Requirements (6 hrs)
HFT 1000 Introduction to Hospitality Management 3 hrs
HFT 2750 The Event Industry 3 hrs

3. Hospitality Management Core (25 hrs)
### FOUR YEAR PLAN OF STUDY FOR EVENT MANAGEMENT*

**Fall Year**
- **Sophomore Year**
  - Fall: 15 hrs
  - Spring: 15 hrs
  - HFT 3757: Event Management I 3 hrs
  - HFT 3911: Event Management II 3 hrs
  - HFT 3540: Event Design & Production 3 hrs
  - Free Electives 6 hrs

**Junior Year**
- Fall: 13 hrs
  - HFT 3757 3 hrs
  - Hosp Event Elective 3 hrs
- Spring: 15 hrs
  - HFT 3911 3 hrs
  - Hosp Event Elective 3 hrs
  - Free electives 6 hrs

**Senior Year**
- Fall: 13 hrs
  - HFT 3757 3 hrs
  - Hosp Event Elective 3 hrs
- Spring: 15 hrs
  - HFT 3431 3 hrs
  - Hosp Event Elective 3 hrs
  - Free electives 5 hrs

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### 4. Practicum (3 hours)

- HFT 3940: Internship I 1 hr
- HFT 4941: Internship II 1 hr
- HFT 4944: Internship III 1 hr

### 5. Event Management Core (24 hours)

- HFT 3670: Hospitality & Event Risk Management 3 hrs
- HFT 3512: Event Promotion 3 hrs
- HFT 3443: Event Technology 3 hrs
- HFT 3702: Event Design & Production 3 hrs
- FSS 2211C: Quantitative Food Production 3 hrs
- HFT 3802: Catering Management 3 hrs
- HFT 3757: Event Management I 3 hrs
- HFT 4791: Event Management II 3 hrs

### 6. Restricted Electives (15 hours)

*Choose any courses from the list below for a total of 15 credit hours*

- HFT 3741: Meeting Management 3 hrs
- HFT 4754: Exhibit and Trade Show Operations 3 hrs
- HFT 3511: Convention Sales 3 hrs
- HFT 4753: Convention Services 3 hrs
- HFT 4795: Entertainment Arts and Events 3 hrs
- HFT 4XXX: Fairs and Festivals 3 hrs
- HFT 4XXX: Destination Marketing 3 hrs
- HFT 4XXX: Destination Management 3 hrs
- HFT 4XXX: International Events 3 hrs

### 7. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed

### 9. Unrestricted Electives (6-14 hrs)

As necessary to result in 120 total credit hours.

**Total Semester Hours Required: 120 hours**

### Community/Junior College Transfer Notes

- Subject to the general residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF College of Hospitality Management.
- Florida Public Community College students are encouraged to complete the general education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the event major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

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*Note: See laboratory component under Section 2.*
### UCF Degree Programs

A. Communications (9 hrs)
- ENC 1101 Composition I [GEP]
- ENC 1102 Composition II [GEP]
- SPC 1600 Fundamentals of Oral Communication [GEP]

B. Humanities (6 hrs)
- PHI 2010 Introduction to Philosophy [GEP]
- Select one:
  - ARH 2050 The History of Art I or
  - MUL 2010 Enjoyment of Music or
  - THE 2000 Theatre Survey or
  - FIL 2400 History of Motion Pictures

C. Mathematics (9 hrs)
- MAC 1105 College Algebra [3 hrs]
- MGF 1106 Finite Mathematics (per GEP) [1 hr]
- STA 1006C Basic Statistics using MS Excel (per GEP) [1 hr]

D. Social Science/History (12 hrs)
- AMH 1120 U.S. History 1492-1877 [GEP]
- AMH 2120 U.S. History 1877-Present [GEP]
- POS 2041 American National Government [GEP]
- PSY 2021 General Psychology [GEP]
- Select one:
  - BSC 1005 Biological Principles [3 hrs]
  - STA 1060C Basic Statistics using MS Excel [3 hrs]
- One of the following (per GEP):
  - BSC 1005L Biological Principles Laboratory [1 hr]
  - MGF 1106 Finite Mathematics [3 hrs]
  - MAC 1105 College Algebra [3 hrs]

E. Internship I Prerequisites:
- EEX 3842 Internship I [3 hrs]
- EEX 4941 Internship II [9 hrs]

7. Foreign Language Requirements (0-8 hrs)
- State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

8. Departmental Exit Requirements
- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Complete a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### 10. Total Semester Hours Required
127 hrs

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

### 11. Recommended Four-Year Sequence of Courses

#### Freshman Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(12 hrs)</td>
<td>(16 hrs)</td>
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<tr>
<td>Fall</td>
<td>EDF 2005 [3 hrs]</td>
<td>EGD 2701 [3 hrs]</td>
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<tr>
<td></td>
<td>ENC 1101 [3 hrs]</td>
<td>ENC 1102 [3 hrs]</td>
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<tr>
<td></td>
<td>PSY 2012 [3 hrs]</td>
<td>Phi 2010 [3 hrs]</td>
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<tr>
<td></td>
<td>PSC 1121 [3 hrs]</td>
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<td>PSC 1121L [1 hr]</td>
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#### Sophomore Year

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<tr>
<td></td>
<td>(15 hrs)</td>
<td>(16 hrs)</td>
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<tr>
<td>Fall</td>
<td>AMH 2010 [3 hrs]</td>
<td>AMH 2020 [3 hrs]</td>
</tr>
<tr>
<td></td>
<td>BSC 1005 [3 hrs]</td>
<td>AST 2002 [3 hrs]</td>
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<tr>
<td></td>
<td>SPC 1600 [3 hrs]</td>
<td>*EEX 2010 [3 hrs]</td>
</tr>
<tr>
<td></td>
<td>STA 2014C [3 hrs]</td>
<td>MAE 2801 [4 hrs]</td>
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<tr>
<td></td>
<td>Select one Arts &amp; Sciences elective [3 hrs]</td>
<td>Select one of the following Fine Arts courses: ARH 2050; ARH 2051; MUL 2010; THE 2000; FIL 2400</td>
</tr>
<tr>
<td></td>
<td>EEX 3243 [3 hrs]</td>
<td>EEX 4214** [3 hrs]</td>
</tr>
<tr>
<td></td>
<td>EEX 3241* [3 hrs]</td>
<td>EEX 4054 [2 hrs]</td>
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<tr>
<td></td>
<td>EED 3012* [3 hrs]</td>
<td>EEX 4214** [3 hrs]</td>
</tr>
<tr>
<td></td>
<td><em>EDG 4323</em> [3 hrs]</td>
<td>EEX 3243 [3 hrs]</td>
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</table>

#### Junior Year

<table>
<thead>
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<td>(14 hrs)</td>
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<tr>
<td>Fall</td>
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<td>EEX 4054 [3 hrs]</td>
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<tr>
<td></td>
<td>EED 4003 [3 hrs]</td>
<td>EED 4003 [3 hrs]</td>
</tr>
<tr>
<td></td>
<td>EEX 4054 [3 hrs]</td>
<td>EEX 4054 [3 hrs]</td>
</tr>
</tbody>
</table>

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*Internship I Prerequisites:
The following courses must be taken before registering for Internship I. Students must be recommended by the faculty for Internship I.

- *EDG 4323 Professional Teaching Practices [3 hrs]
- EDF 3012 Basic Foundations of Reading [3 hrs]
- EEX 2010 Orientation to Special Education [3 hrs]
- EEX 3241 Methods of Academic Skills Ex Ed [3 hrs]
- *TSL 4080 Theory and Practice of Teaching ESOL [3 hrs]

**Internship I Prerequisites:
The following courses must be taken before registering for Internship II. Students must be recommended by the faculty for Internship II.

- EED 4214** [3 hrs]
- EEX 4054 [3 hrs]
- EEX 4054 [3 hrs]
- EED 4214** [3 hrs]
- EED 4003 [3 hrs]
- EEX 4054 [3 hrs]

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**Internship I Prerequisites:
The following courses must be taken before registering for Internship I. Students must be recommended by the faculty for Internship I.

- *EDG 4323 Professional Teaching Practices [3 hrs]
- EDF 3012 Basic Foundations of Reading [3 hrs]
- EEX 2010 Orientation to Special Education [3 hrs]
- EEX 3241 Methods of Academic Skills Ex Ed [3 hrs]
- *TSL 4080 Theory and Practice of Teaching ESOL [3 hrs]

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**Internship I Prerequisites:
The following courses must be taken before registering for Internship I. Students must be recommended by the faculty for Internship I.

- EED 4214** [3 hrs]
- EEX 4054 [3 hrs]
- EEX 4054 [3 hrs]
- EED 4214** [3 hrs]
- EED 4003 [3 hrs]
- EEX 4054 [3 hrs]
1. UCF General Education Program (36 hrs)

Courses designated in 1 (General Education Program) and 2

Due to the conservative nature, the BFA demands a closely inte-

Departmental Residency Requirement consists of at least 48

All students are required to pay a fee for equipment insurance.

Students must consult with a departmental advisor each

A maximum of three credit hours of internship may be earned in

Continuation in the Film Program requires a positive annual eval-

Students who change degree programs and select this major

Admission Requirements

The Film BFA major is a limited access program.

Entrance into most Film classes is restricted to majors.

Applications to become a Film BFA major are required by

December 15 for admission to the subsequent Fall term

A portfolio review is required for entry into the Film BFA major.

Contact the Film Division for details.

Degree Requirements

Students who change degree programs and select this major

must adopt the most current catalog.

Students are required to maintain an overall average grade of

“B” (3.0) or better in Film major courses.

Continuation in the Film Program requires a positive annual eva-

ulation.

A maximum of three credit hours of internship may be earned in

one semester. A total of six credit hours of internship may be

earned within the 120 credit hours required for graduation.

Students must consult with a departmental advisor each

semester.

All students are required to pay a fee for equipment insurance.

Departmental Residency Requirement consists of at least 48

semester hours of regularly scheduled 3000-4000 level courses

taken from the UCF Film Division.

Due to the conservative nature, the BFA demands a closely inte-

grated curriculum. Therefore, transfers are not generally encour-

aged to pursue a BFA program. However, exceptionally talented

students who have completed the General Education Program

and the Commonwealth Prerequisites before transitioning

in the Florida Public University/Community College System may

be admitted.

Courses designated in 1 (General Education Program) and 2

(Common Program Prerequisites) are usually completed in the

first 60 hours.

1. UCF General Education Program (36 hrs)

A. Communication Foundations

Select one class from I.B.1 list

Prefer one class from either I.B.1 or I.B.2

3 hrs

Prefer FIL 2400

3 hrs

Prefer one class from either I.B.1 or I.B.2

3 hrs

B. Cultural and Historical Foundations

Prefer one class from 1.B.1 list

3 hrs

Prefer CGS 1060C or

STA 1060C

3 hrs

Select MGF 1106

(may substitute a higher level math)

3 hrs

Prefer CGS 1060C or

STA 1060C

3 hrs

C. Mathematical Foundations

Select MGF 1106

(may substitute a higher level math)

3 hrs

Prefer CGS 1060C or

STA 1060C

3 hrs

D. Social Foundations

Select one class from either I.B.1 or I.B.2

3 hrs

Prefer one class from either I.B.1 or I.B.2

3 hrs

2. Common Program Prerequisites (3 hrs)

FIL 2400* History of the Motion Pictures

GEP

FIL 1007 Foundations of Story

3 hrs

*See transfer notes for possible substitutions

3. Lower Level Core Requirements (18 hrs)

FIL 2217C Script Analysis

3 hrs

FIL 2221 Acting for Film I

3 hrs

4. Upper Level Core Requirements (42 hrs)

DIG 3001 Digital Media Principles

3 hrs

FIL 3124 Short Script I

3 hrs

FIL 3201C Intro to Film Production

3 hrs

FIL 3297 Sound Design I

3 hrs

FIL 3401 Film History I

3 hrs

FIL 3402 Film History II

3 hrs

FIL 3503C Film Theory and Criticism I

3 hrs

FIL 3922 Film Colloquium

6 hrs

(Five semesters of Colloquium required at 1 hr each)

FIL 4208C Directing II

3 hrs

FIL 4604 The Film Producer

3 hrs

FIL 4607 Film Production Management

3 hrs

Select one course:

3 hrs

FIL 3125 Short Script II

FIL 4111C Feature/TV Writing

5. Upper Level Restricted Electives (12 hrs)

Select four courses from the following. Must complete all core

requirements before taking these courses. A maximum of six hours

of Independent Study may be substituted with advisor’s prior

approval.

■ Production/Direction

FIL 3300C Film Documentary

FIL 3325 Interactive Entertainment

FIL 4210C Cinematography II

FIL 4212C Sound Design II

FIL 4213 Sound Design III

FIL 4223 Design for Film

FIL 4228 Directing III

FIL 4294C Editing II

■ Screen Writing

FIL 4103 Adaptation

FIL 4112C Feature/TV Writing II

FIL 4113C Interactive Writing I

FIL 4114C Interactive Writing II

FIL 4506C Genre Writing

FIL 4906 Independent Study

■ Cinema Studies

FIL 3309 Women in Film

FIL 3412 Black Cinema

FIL 3418 Avant-Garde Cinema

FIL 3504C Film Theory and Criticism II

FIL 3511 French New Wave Cinema

FIL 3512 Italian Neo-Realist Cinema

FIL 3513 Latin American Cinema

FIL 3520 Italian Film

FIL 3521 French Film

FIL 3522 German Film

FIL 3551 American Cinema

■ Digital Cinema

ART 2820 Art as Interface

ART 3618C Post-Production Design

COP 3502C Computer Science I

DIG 3855 Converging Media

DIG 3135C Digital Imagery

DIG 4780 Modeling for Realtime Graphics

ENC 4415 Digital Rhetoric & Modern Dialectic

IDS 3701C Internet Software Design

MUC 3311 MIDI Sequencing

6. Capstone Courses (6 hrs)

FIL 4203C Capstone I

3 hrs

FIL 4211C Capstone II

3 hrs

7. Departmental Exit Requirements

■ A student must maintain an overall average of “B” (3.0) or better

in major courses.

■ Computer competency met by CGS 1060C or STA1060C.

■ Department of Film requires taking an exit examination.

8. Foreign Language Requirements (0-8 hrs)

Admission: Meets graduation requirement

Graduation: Proficiency equivalent to one year of college instruction

in a foreign language taught by the Department of Modern

Languages and Literatures or Judaic Studies. Standardized exami-

nations for foreign languages may be used to meet the require-

ment.

9. Electives (variable)

Select primarily from upper level courses, with departmental advi-

sor’s approval. May be outside of the department.
UCF Degree Programs

10. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required: 120 hours

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required: 120 hours

4. Restricted Upper Division Electives
Select three courses from the following upper level FIL courses:

- FIL 2400 may substitute FIL 1001, but FIL 2400 is a prerequisite for subsequent FIL courses.
- FIL 1007 may use any introductory film writing course. However, FIL 1007 is a prerequisite for all major courses and must be taken.

FILM - CINEMA STUDIES TRACK (B.A.)
College of Arts and Humanities
School of Film and Digital Media
Film Division, COM 121, 407-823-3456
http://www.film.ucf.edu
E-mail: film@mail.ucf.edu
Division Head: S. Schlow, 407-823-0694

Admission Requirements
None

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to maintain an overall average of “B” (3.0) or better in major courses.
- Film production/directing classes are not open to Cinema Studies majors.
- Cinema Studies Track is not an entree into the BFA Film Program.
- Co-op or internship credit cannot be used in this major.
- Students must consult with a departmental advisor each semester.
- Departmental Residency Requirement consists of at least 48 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Division.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
- Communication Foundations
- Cultural and Historical Foundations
- Prefer one course from 1.B.1 list
- Prefer FIL2400
- Prefer one course from 1.B.1 or 1.B.2 list
- Mathematical Foundations
- Select MGF 1106 (may substitute a higher level math)
- Prefer CGS 1050C or STA 1020C
- Social Foundations
- Science Foundations

2. Common Program Prerequisites (3 hrs)
- FIL 2400 History of the Motion Pictures
- FIL 1007 Foundations of Story
- *see Transfer Notes for possible substitutes

3. Core Requirements (48 hrs)
- DIG 3001 Digital Media Principles
- FIL 1008 Cinematic Expression/Aesthetics
- FIL 2204 Script Analysis
- FIL 2224C Foundations of Production
- FIL 3006 Art of the Cinema
- FIL 3102 Writing for Film and TV
- FIL 3124 Short Script or FIL 3225C Cinematic Expression
- FIL 3303C Film Documentaries
- FIL 3401 Film History I
- FIL 3402 Film History II
- FIL 3418 Avant-Garde Cinema
- FIL 3504C Film Theory and Criticism I
- FIL 3504E Film Theory and Criticism II
- FIL 3510 World Cinema Traditions
- FIL 3511 American Cinema
- FIL 4604 The Film Producer (3 hrs)

4. Restricted Upper Division Electives (9 hrs)
- DIG 3955 Converging Media
- FIL 3259 Cinema Director
- FIL 3309 Women in Film
- FIL 3410 History of Animated Films
- FIL 3412 Black Cinema
- FIL 3511 French New Wave Cinema
- FIL 3512 Italian Neo-Realist Cinema
- FIL 3513 Latin American Cinema
- FIL 3514 International Cinema
- FIL 3520 Italian Film
- FIL 3521 French Film
- FIL 3522 German Film
- FIL 3542 Cinema Criticism (writing)
- FIL 3625 Independent Study
- FIL 5609 Film and Internet Business

5. Required Minor (18 hrs min)
- Must be taken outside the Film Department.

6. Departmental Exit Requirements
- A student must maintain an overall average of “B” (3.0) or better in major courses.
- Computer competency met by CGS1060 or STA1060C.

7. Foreign Language Requirements (0-8 hrs)
- Admission: Met by graduation requirement.
- Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)
- Select primarily from upper division courses, with departmental advisor’s approval. May be outside of the department.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required: 120 hours

Related Programs: Animation, Art, Creative Writing, Film, Music, Theatre, Radio/TV
Related Minors: Art, Cinema Studies, Creative Writing, Music, Theatre

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for Common Program Prerequisites
- FIL2400 may substitute FIL 1001, but FIL 2400 is a prerequisite.
FILM- WORLD CINEMA TRACK (B.A.)
College of Arts and Humanities
School of Film and Digital Media
Film Division, COM 121, 407-823-3456
http://www.film.ucf.edu
E-mail: film@mail.ucf.edu
Division Head: S. Schlow, 407-823-0694

Limited Access Program
Admission Requirements
- The Film - World Cinema track is a limited access program.
- Attain an overall minimum 2.5 GPA before applying.
- Students should consult with a departmental advisor.
- A portfolio and an interview are required for entry into the Film World Cinemas track.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to maintain an overall average grade of "B" (3.0) or better in courses within the major.
- A maximum of three credit hours on internship may be earned in one semester. A total of six credit hours of internship may be earned within the 120 credit hours required for graduation.
- Students should consult with a departmental advisor.
- All students are required to pay a fee for equipment insurance.
- Departmental residency requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Department.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
      Prefer one course from 1.B.1 list
      Prefer FIL 2400
   B. Cultural and Historical Foundations (3 hrs)
      Prefer one course from 1.B.1 or 1.B.2 list
      Prefer FIL 2400
   C. Mathematical Foundations (3 hrs)
      Prefer MGF 1106 (may substitute a higher level math)
      Prefer CGS 1060C or STA 1060C
   D. Social Foundations (6 hrs)
      D. Social Foundations
   E. Science Foundations (6 hrs)
      E. Science Foundations

2. Common Program Requirements (3 hrs)
   FIL 2400* History of Motion Pictures GEP
   FIL 1007* Foundations of Story 3 hrs
   *See transfer notes for possible substitutions

3. Core Requirements (57 hrs)
   DIG 3001 Digital Media Principles 3 hrs
   FIL 1009 Cinematic Expression for Majors 3 hrs
   FIL 2107 Script Analysis 3 hrs
   FIL 2200 Cinematography I 3 hrs
   FIL 2220 Directing 1 3 hrs
   FIL 2274C Editing I 3 hrs
   FIL 3124 Short Script I 3 hrs
   FIL 3201C Introduction to Film Production 3 hrs
   FIL 3297 Sound Design I 3 hrs
   FIL 3300C Film Documentary 3 hrs
   FIL 3304C Documentary Vision 3 hrs
   FIL 3307 Docudrama 3 hrs
   FIL 3401 Film History I 3 hrs
   FIL 3503C Film Theory and Criticism I 3 hrs
   FIL 3510 World Cinema Traditions 3 hrs
   FIL 3501C Documentary Workshop I 3 hrs
   FIL 3502C Documentary Workshop II 3 hrs
   FIL 4002 Film Business 3 hrs
   FIL 4007 Film Production Management 3 hrs

5. Upper Level Restricted Electives (9 hrs)
   Select three of the following
   FIL 3000 Documentary Field Production
   FIL 3504C Film Theory and Criticism II
   FIL 3513 Latin American Cinema
   FIL 4564 Africana Cinema
   FIL 4574 Images & Text in Context
   FIL 4604 The Film Producer
   Additional courses may be acceptable. Consult your advisor.

6. Capstone (6 hrs)
   FIL 4203C Capstone I 3 hrs
   FIL 4211C Capstone II 3 hrs

7. Departmental Exit Requirements
   - A student must maintain an overall average of "B" (3.0) or better in courses within the major.
   - Computer competency met by CGS 1060C or STA 1060C.
   - Department of Film requires a passing grade on an exit examination.

8. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement.
   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (Variable)
   Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

10. University Minimum Exit Requirements
    - A 2.0 UCF GPA
    - 60 semester hours earned after CLEP awarded
    - 48 semester hours of upper division credit completed
    - 30 of the last 36 hours of course work must be completed in residence at UCF
    - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
    - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 120 hours

Related Programs: Animation, Art, Cinema Studies, Creative Writing, Film, Digital Media, Music, Radio/T.V, Theatre.
Related Minors: Cinema Studies, Creative Writing, Digital Media, African American Studies, Women Studies, Latin American Studies, Asian Studies, International and Global Studies

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for Common Program Prerequisites
- FIL 2400 may substitute FIL 1001, but FIL 2400 is a prerequisite for subsequent Film courses and still must be taken.
- FIL 1007 may use any introductory Film writing course.
- However FIL 1007 is a prerequisite for all major courses and must be taken.

FINANCE (B.S.B.A.)
College of Business Administration
BAZ 101, 407-823-2184
http://www.bus.ucf.edu/finance

Admissions Requirements
- Completion of the UCF General Education Program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements
1. UCF General Education Program (36 hrs)
A. Communications Foundations
   Required. SPC 1600
   9 hrs

B. Cultural and Historical Foundations
   9 hrs
   Select MAT 1105 College Algebra
   3 hrs
   Select CGS 2100CC Comp Fundamentals for Bus
   3 hrs

C. Mathematical Foundations
   9 hrs
   Select ECO 2313 Macroeconomics
   3 hrs
   Select ECO 2302 Microeconomics
   3 hrs
   Select one: PSY 2012, SYG 2000, ANT 2000
   6 hrs

D. Social Foundations
   Must be completed with a “C” (2.0) or better.
   9 hrs
   Select ECO 3401 Quantitative Business Tools I
   3 hrs
   CGS 2100CC Computer Fundamentals for Business
   3 hrs

E. Science Foundations
   9 hrs
   Select three of the following:* 
   A. Communications Foundations 9 hrs
   FIN 3413 Management of Financial Institutions 3 hrs
   FIN 4324 Commercial Bank Management 3 hrs
   FIN 4424 Adv Topics in Financial Management 3 hrs
   FIN 4514 Portfolio Analysis and Management 3 hrs
   FIN 4533 Financial Derivatives 3 hrs
   FIN 4604 International Financial Management 3 hrs
   FIN 4730 Senior Financial Consulting I 3 hrs
   FIN 4731 Senior Financial Consulting II 3 hrs
   FIN 4906 Independent Study 3 hrs
   FIN 4941 Internship 3 hrs
   MAR 3991 Professional Selling 3 hrs
   RES 3048 Fundamentals of Real Estate 3 hrs
   RES 3433 Real Estate Law 3 hrs
   RES 4103 Real Estate Appraisal 3 hrs
   RES 4204 Real Estate Finance 3 hrs
   RES 4303 Real Estate Investment Analysis 3 hrs
   RES 4732 Real Estate Development 3 hrs
   RMI 3011 Principles of Risk and Insurance 3 hrs
   TAX 4001 Federal Income Tax I 3 hrs

F. Economics
   9 hrs
   Select three of the following:* 
   B. Cultural and Historical Foundations 9 hrs
   ACB 4403 Principles of Financial Accounting 3 hrs
   ACB 4720 Strategic Management 3 hrs
   ISM 3011 Essentials of Management Information Systems 3 hrs
   MAN 4720 Strategic Management 3 hrs
   MAT 3023 Marketing 3 hrs

G. Business Infrastructure
   3 hrs
   Select ECO 2013 Macroeconomics
   3 hrs
   CGS 2100CC Computer Fundamentals for Business
   3 hrs

4. Special College and/or Department Requirements
   Students who change degree programs and select this major must adopt the most current catalog.
   12 hrs
   Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
   3 hrs
   Students wanting to major in finance must apply for admission to the major.
   3 hrs
   Final exams will be given during exam week.
   12 hrs
   Any student receiving a business degree must complete one half (30) of the 60 hours of upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
   3 hrs
   A maximum of 6 hours of required or elective coursework (from sections 5 and 6 below) can count toward another major or minor degree program.
   3 hrs
   Students majoring in finance must earn a grade of “C” (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. FIN 3403 is included in this requirement.
   3 hrs
   Students must earn at least a 2.0 GPA in the major and CBA.

5. Required Courses
   (18 hrs)

   FIN 3303 Financial Markets 3 hrs
   FIN 3414 Intermediate Corporate Finance 3 hrs
   FIN 3504 Investment Analysis 3 hrs
   FIN 4453 Financial Models 3 hrs
   Select two of the following:* 
   FIN 4313 Management of Financial Institutions 3 hrs
   FIN 4324 Commercial Bank Management 3 hrs
   FIN 4514 Portfolio Analysis and Management 3 hrs
   FIN 4521C Applied Portfolio Management I 4 hrs
   FIN 4522C Applied Portfolio Management II 4 hrs
   FIN 4533 Financial Derivatives 3 hrs
   FIN 4604 International Financial Management 3 hrs
   FIN 4424 Adv Topics in Financial Management 3 hrs

6. Restricted Electives
   (9 hrs)

   Select three of the following:* 
   ACG 3131 Financial Accounting Concepts 3 hrs
   ACG 3141 Intermediate Financial Accounting 3 hrs
   ACG 3361 Intermediate Managerial Accounting 3 hrs
   ECO 4212 Economic Statistics and Econometrics 3 hrs
   FIN 3470 Financial Statement Analysis 3 hrs

7. Electives***
   (variable)

Total Semester Hours Required 120 hours

Community/Junior College Transfer Notes

Common Program Prerequisites for the State University System for College of Business Administration programs include: Financial Accounting, Managerial Accounting, Microeconomics, Macroeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.

Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business Program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.

ACG X001 and X011 will substitute for ACG 2011 at UCF.

Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.

Professional courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.

A minimum of 12 semester hours must be completed at UCF within each individual major.

Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.
FOREIGN LANGUAGE EDUCATION- FRENCH (B.S.)

College of Education
Department of Teaching and Learning Principles, ED209
http://www.education.ucf.edu/
Program Coordinator: Dr. Karen Verkler
ED 220-L, 407-823-5235
E-mail: kverkler@mail.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, (i.e. an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

Degree Requirements:
- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

1. UCF General Education Program
   **(36 hrs)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Select SPC 1600 Fundamentals of Oral Communication</td>
<td>3</td>
</tr>
<tr>
<td>Select AMH 2010 U.S. History 1492-1877</td>
<td>3</td>
</tr>
<tr>
<td>Select AMH 2020 U.S. History 1877-Present</td>
<td>3</td>
</tr>
<tr>
<td>Select PHI 2010 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Select one:</td>
<td>3</td>
</tr>
<tr>
<td>STA 1060C Basic Statistics using MS Excel</td>
<td>3</td>
</tr>
<tr>
<td>STA 2014C Principles of Statistics</td>
<td>3</td>
</tr>
<tr>
<td>STA 2041 American National Government</td>
<td>3</td>
</tr>
<tr>
<td>Select PSY 2012 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6</td>
</tr>
<tr>
<td>Select one:</td>
<td>3</td>
</tr>
<tr>
<td>ANT 2511 The Human Species or</td>
<td>3</td>
</tr>
<tr>
<td>BSC 1005 Biological Principles</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: See laboratory component under Section 2.

2. Common Program Prerequisites
   **(25 hrs)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>GEP</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>GEP</td>
</tr>
<tr>
<td>SPC 1600 Fundamentals of Oral Communication</td>
<td>GEP</td>
</tr>
</tbody>
</table>

3. Education Core Requirements
   **(15 hrs)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 2010 Introduction to Philosophy</td>
<td>3</td>
</tr>
<tr>
<td>Select one:</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2050 History of Western Art I</td>
<td>GEP</td>
</tr>
<tr>
<td>ARH 2051 History of Western Art II</td>
<td>GEP</td>
</tr>
<tr>
<td>MUL 2100 Enjoyment of Music or</td>
<td>GEP</td>
</tr>
<tr>
<td>THE 2000 Theatre Survey or</td>
<td>GEP</td>
</tr>
<tr>
<td>FIL 3400 History of Motion Pictures</td>
<td>GEP</td>
</tr>
</tbody>
</table>

4. Internship I (ESE3940)
   **(3 hrs)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRE 2200 Intermediate French Lang and Cvi</td>
<td>3</td>
</tr>
<tr>
<td>FRE 2201 Intermediate French Lang and Cvi</td>
<td>3</td>
</tr>
</tbody>
</table>

Note: FRE 2270 Intermediate French Study Abroad (9 hrs) may be taken in place of FRE 2200 and FRE 2201.

5. Specialization Requirements
   **(21 hrs)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>*FLE 4333 For Lang Tch in the Secondary School</td>
<td>3</td>
</tr>
<tr>
<td>*FLE 4314 For Lang Tch in the Elementary School</td>
<td>3</td>
</tr>
<tr>
<td>FRE 3300 French Grammar</td>
<td>3</td>
</tr>
<tr>
<td>FRE 3420 French Composition</td>
<td>3</td>
</tr>
<tr>
<td>FRE 3760 Advanced French Oral Composition</td>
<td>3</td>
</tr>
<tr>
<td>FRW 3100 Survey of French Literature I</td>
<td>3</td>
</tr>
<tr>
<td>FRW 3101 Survey of French Literature II</td>
<td>3</td>
</tr>
</tbody>
</table>

6. Upper Division Restricted Electives
   **(9 hrs)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRE 4241 Advanced French Conversation</td>
<td></td>
</tr>
<tr>
<td>FRE 4242 Advanced French Composition</td>
<td></td>
</tr>
<tr>
<td>FRE 4590 French Civilization and Culture</td>
<td></td>
</tr>
</tbody>
</table>

7. Other Cognate Requirements
   **(3 hrs)**

   Select one of the following:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRE3780 French Phonetics and Diction</td>
<td>3</td>
</tr>
<tr>
<td>LIN 4643 Cross-Cultural Communication</td>
<td>3</td>
</tr>
</tbody>
</table>

8. Internship II (ESE4943)  **(12 hrs)**
**UNIVERSITY OF CENTRAL FLORIDA**

**FLE 4333 3 hrs**

**FLE 4314 3 hrs**

Summer (6 hrs)

**FRW 3100 3 hrs restricted electives (FRW/FRW 3/4XXX)**

**FRE 3420 3 hrs Upper division restricted electives (FRE/FRW 3/4XXX)**

**FRE 3760 3 hrs**

**EDG 4323 3 hrs**

**EDF 4214 3 hrs**

**EDG 4323 3 hrs**

Fall (12 hrs) Spring (12 hrs)

**EDF 4603 3 hrs**

**ESE 4943 12 hrs**

**ESE 3940 3 hrs**

Upper division restricted elective (FRE/FRW 3/4XXX) 3 hrs

Select one: 3 hrs

FRE 3780 or LIN 4643

*Required prior to Internship I.

**FOREIGN LANGUAGE EDUCATION- SPANISH (B.S.)**

**College of Education**

**Department of Teaching and Learning Principles**

**ED 209**

http://www.education.ucf.edu/

Program Coordinator: Dr. Karen Verkler

ED 220-L, 407-823-5235

E-mail: kverkler@mail.ucf.edu

**Admission Requirements**

- Complete the University General Education requirements or its equivalent, (i.e. an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

**Degree Requirements**

- Students should see an advisor prior to registering for classes.
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

**1. UCF General Education Program**

<table>
<thead>
<tr>
<th>A. Communication Foundations</th>
<th>(9 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. Cultural-Historical Foundations</th>
<th>(9 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select AMH 2010 U.S. History 1492-1877</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select AMH 2020 U.S. History 1877-Present</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select PHI 2010 Introduction to Philosophy</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**C. Mathematical Foundations**

(6 hrs)

Select MGF 1106 Finite Mathematics 3 hrs

Select one:

- STA 1060C Basic Statistics using MS Excel or
- STA 2014C Principles of Statistics

**D. Social Foundations**

(6 hrs)

Select PHI 2012 American National Government 3 hrs

Select PSY 2012 General Psychology 3 hrs

**E. Science Foundations**

(6 hrs)

Select one:

- Select PHI 2010 Introduction to Philosophy 3 hrs
- PHY 2110 Physical Science 3 hrs

**Note:** See laboratory component under Section 2.

**2. Common Program Prerequisites**

<table>
<thead>
<tr>
<th>A. Communications</th>
<th>(9 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPC 1600 Fundamentals of Oral Communication</td>
<td>GEP</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. Humanities</th>
<th>(6 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 2010 Introduction to Philosophy</td>
<td>GEP</td>
</tr>
<tr>
<td>Select one:</td>
<td>GEP</td>
</tr>
<tr>
<td>ARH 2050 History of Western Art I or ARH 2061 History of Western Art II or</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey or FIL 2400 History of Motion Pictures</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>C. Mathematics</th>
<th>(9 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1105 College Algebra</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGF 1106 Finite Mathematics</td>
<td>GEP</td>
</tr>
<tr>
<td>One of the following (per GEP)</td>
<td>GEP</td>
</tr>
<tr>
<td>STA 1060C Basic Statistics using MS Excel or</td>
<td></td>
</tr>
</tbody>
</table>

**At least 80% of all required foreign language courses and all methods courses must be completed before doing Internship II**

- See additional requirements under College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

**9. Foreign Language Requirements**

(0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

**10. Departmental Exit Requirements**

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

**11. University Minimum Exit Requirements**

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**12. Total Program Semester Hours Required**

- 124 hours

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

**13. Recommended Four-Year Sequence of Courses**

### Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>(12 hrs)</th>
<th>Spring</th>
<th>(16 hrs)</th>
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</thead>
<tbody>
<tr>
<td>EDF 2005</td>
<td>3 hrs</td>
<td>EDG 2701</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>3 hrs</td>
<td>ENC 1102</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGF 1106</td>
<td>3 hrs</td>
<td>MAC 1105</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PSY 2012</td>
<td>3 hrs</td>
<td>POS 2041</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PSC 1121</td>
<td>3 hrs</td>
<td>PSC 1121L</td>
<td>1 hr</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Summer</th>
<th>(6 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EME 2040</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 2010</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### Sophomore Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>(15 hrs)</th>
<th>Spring</th>
<th>(12 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMH 2010</td>
<td>3 hrs</td>
<td>AMH 2020</td>
<td>3 hrs</td>
</tr>
<tr>
<td>BSC 1005</td>
<td>3 hrs</td>
<td>AST 2002</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FRE 2200</td>
<td>3 hrs</td>
<td>FRE 2201</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPC 1600</td>
<td>3 hrs</td>
<td>ARH 2050 or</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 2014C</td>
<td>3 hrs</td>
<td>MUL 2010 or THE 2000 or</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TSL 4080</td>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>(15 hrs)</th>
<th>Spring</th>
<th>(15 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>*EDF 4214</td>
<td>3 hrs</td>
<td>FRW 3101</td>
<td>3 hrs</td>
</tr>
<tr>
<td>*EDG 4223</td>
<td>3 hrs</td>
<td>FRL 3760</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FRE 3300</td>
<td>3 hrs</td>
<td>RED 4043</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FRE 3420</td>
<td>3 hrs</td>
<td>Upper division</td>
<td>6 hrs</td>
</tr>
<tr>
<td>FRW 3100</td>
<td>3 hrs</td>
<td>restricted electives (FRE/FRW 3/4XXX)</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Summer</th>
<th>(6 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>*FLE 4314</td>
<td>3 hrs</td>
</tr>
<tr>
<td>*FLE 4333</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**Note:** See laboratory component under Section 2.
Satisfactory completion of Internship II requires the student to
See additional requirements under College of Education, Office
At least 80% of all required foreign language courses and all
8. Internship II (ESE4943) (12 hrs)
Select one of the following: 3 hrs
7. Other Cognate Requirements (3 hrs)
Select one of the following: 3 hrs
8. Internship II (ESE4943) (12 hrs)
At least 80% of all required foreign language courses and all
methods courses must be completed before doing Internship II
See additional requirements under College of Education, Office of
Clinical Experiences
Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065
9. Foreign Language Requirements (0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)
10. Departmental Exit Requirements
Achieve a minimum 2.5 GPA in all courses within the major.
Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
Pass all applicable sections of the Florida Teacher Certification Examination.
11. University Minimum Exit Requirements
A 2.0 UCF GPA
60 semester hours earned after CLEP awarded
48 semester hours of upper division credit completed
30 of the last 36 hours of course work must be completed in residency at UCF
25% of course work must be completed in residency at UCF
Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)
12. Total Semester Hours Required 124 hrs
At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.
13. Recommended Four-Year Sequence of Courses
Freshman Year
Fall (12 hrs) Spring (16 hrs)
EDF 2005 3 hrs ESE 3940 3 hrs
ENC 1101 3 hrs ENC 1102 3 hrs
MGF 1106 3 hrs MAC 1105 3 hrs
PSY 2012 3 hrs POS 2041 3 hrs
Junior Year
Fall (15 hrs) Spring (12 hrs)
AMH 2010 3 hrs AMH 2020 3 hrs
BSC 1005 3 hrs AST 2002 3 hrs
SPC 1600 3 hrs SPN2201 or 3 hrs
SPN 2200 3 hrs SPN 3234 with 3 hrs
STA 2014C 3 hrs advisor’s consent
Senior Year
Fall (12 hrs) Spring (12 hrs)
EDF 4603 3 hrs ESE 4943 12 hrs
ESE 3940 3 hrs SPW 3100 or 3 hrs
SPW 3130 3 hrs SPW 3131 3 hrs
TSL 4080 3 hrs
UCF Degree Programs

FORENSIC SCIENCE-ANALYSIS TRACK (B.S.)
College of Sciences, Department of Chemistry
CH 329, 407-823-6205
http://www.cas.ucf.edu/chemistry
E-mail: chemistry@ucf.edu
Contact: B. Fookes

Admission Requirements
none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry.
- Co-op credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Students must complete categories 2 (Common Program Prerequisites) and 3 (Core science and math) below and achieve a minimum 2.5 cumulative GPA in categories 2 and 3 prior to enrolling in the program of study described in categories 4 and 5.
- Individual course prerequisites for enrollment in courses selected to complete categories 4 and 5 will be enforced without exception.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36+3 hrs)
(Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36)

A. Communication Foundations
1. Select ENC 1101 and ENC 1102 6 hrs
2. Prefer SPC 1016 3 hrs

B. Cultural and Historical Foundations
9 hrs

C. Mathematical Foundations
1. Select MAC 2311 4 hrs
2. Select STA 2023 3 hrs

D. Social Foundations 6 hrs

E. Science Foundations
1. Select PHY 2048 & L (PR: MAC 2311) 4 hrs
2. Select BSC 2010C 4 hrs

2. Common Program Prerequisites (16 hrs)

BSC 2010C Biology I GEP
CHM 2045C* Chem Fund I 4 hrs
CHM 2046 & L Chem Fund II with Lab 4 hrs
MAC 2311 Calculus w/ Anal Geometry I GEP
MAC 2312 Calculus w/ Anal Geometry II 4 hrs
PHY 2048 & L* Physics Engr. & Sci. I & Lab GEP
PHY 2049 & L* Physics Engr. & Sci. II & Lab 4 hrs

*See Transfer Notes for possible substitutes
+ CHM 2040 plus CHM 2041 can substitute for CHM 2045C

3. Core Science and Math Requirements (18 hrs)

BSC 2010C Biology I GEP
CHM 2210 Organic Chem. I 3 hrs
CHM 2211 L Organic Chem II & lab 5 hrs
CHM 3120 & L Analytical Chemistry & Lab 4 hrs
STA 2023 Statistical Methods I GEP
PCB 3063 Genetics 3 hrs
PCB 3230 Immunology 3 hrs
MAC 2311 Calculus w/ Anal Geometry I CPP
MAC 2312 Calculus w/ Anal Geometry II CPP
PHY 2048 & L Physics Engr. & Sci. I & Lab CPP
PHY 2049 & L Physics Engr. & Sci. II & Lab CPP

4. Forensic Science Core (19 hrs)

CHS 3501 Intro to Forensic Science 3 hrs
CHS 3505C Forensic Microscopy 4 hrs
CHS 4537 Forensic Lab Quality Assurance 2 hrs
CHS 3595 Forensic in the Courtroom 3 hrs
CHS 3533C Forensic Biochemistry I 3 hrs
CHS 4591 Forensic Science Internship 4 hrs

5. Forensic Analysis Track (27 hrs)

a. Required Courses (15 hrs)
CHM 3422 Applied Physical Chemistry 3 hrs
CHM 4130C Advanced Analytical Chemistry 4 hrs
CHS 3511C Trace Evidence 4 hrs
CHS 3530C Foren Anal of Controlled Subs 4 hrs

b. Select 12 hours from the following: (12 hrs)
ANT 4521C Forensic Anthropology 3 hrs
BOH 4063 Forensic Toxicology 3 hrs
CHM 3212L Organic Lab Techniques II 2 hrs
CHM 4912 Undergraduate Research 3 hrs
CHS 4506C Forensic Investigating Techniques 3 hrs
CHS 4515C Forensic Crime Scene Investigation 4 hrs
CHS 4547C Advanced Topics in Forensic Science 3 hrs
PCB 3063L Genetics Lab 1 hrs
PCB 3233L Immunology Lab 1 hrs
Substitutions require prior approval by the department

6. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each course used to satisfy categories 2, 3, 4, and 5 of the degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 2 and 3 of the departmental degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 4 and 5 of the departmental degree requirements.
- Computer Competency met by CHS 3505C and CHS 4537.
- American Board of Criminalists (ABC) exit exam must be taken prior to graduation, or an exit exam specified by the department.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation: none

8. Electives (variable)
Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A minimum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 124 hrs

Related Programs: Chemistry, Forensic Biochemistry Track
Related Minors: Chemistry
Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
  CHM 2045C*: may use CHM 1040 plus CHM 1041
  MAC 2311* & 2312*: Although MAC 2353 & 2354 will satisfy the CPP, MAC 2311 & 2312 are required in the major and still must be taken.
  PHY 2048 & Lab* and 2049 & Lab*: Although CPP requirements permit substitution by Organic Chemistry (CHM 2210 & 2211), PHY 2048 & L, PHY 2049 & L, CHM 245, and CHM 2048 are required for graduation, so all must be taken.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same
UCF Degree Programs

FORENSIC SCIENCE-BIOCHEMISTRY TRACK (B.S.)
College of Sciences, Department of Chemistry
CH 223, 407-823-0163
http://www.cas.ucf.edu/chemistry/
E-mail: chemistry@ucf.edu
Contact: J. Ballantyne

Admission Requirements
none

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry.

Co-op or internship credit cannot be used in this major.

Students should consult with a departmental advisor.

Students must complete categories 2 (Common Program Prerequisites) and 3 (Core science and math) below and achieve a minimum 2.5 cumulative GPA in categories 2 and 3 prior to enrolling in the program of study described in categories 4 and 5.

Students must maintain a minimum 2.5 cumulative GPA in categories 4 and 5 to continue in the major.

Individual course prerequisites for enrollment in courses selected to complete categories 4 and 5 will be enforced without exception.

Courses designated in 2. (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36+3 hrs)
   (Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36)

A. Communication Foundations

B. Cultural and Historical Foundations

C. Mathematical Foundations

1. Select MAC 2311

D. Social Foundations 6 hrs

E. Science Foundations

1. Select PHY 2048 & L (PR: MAC 2311) 4 hrs
2. Select BSC 2010C 4 hrs

2. Common Program Prerequisites (16 hrs)

BSC 2010C Biology I GE

CHM 2045C Organic Chem I GE

CHM 2046 & L Chem Fund II with Lab 4 hrs

MAC 2311 Calculus w/ Anal Geometry I GE

MAC 2312 Calculus w/ Anal Geometry II GE

PHY 2048 & L* Physics Eng. & Sci. I & Lab GE

PHY 2049 & L* Physics Eng. & Sci. II & Lab 4 hrs

*See Transfer Notes for possible substitutes

*CHM 2040 plus CHM 2041 can substitute for CHM 2045C

3. Core Science and Mathematics Requirements (20 hrs)

BSC 2010C Biology I GE

CHM 2210 Organic Chem I GE

CHM 2211 Organic Chem II GE

CHM 2211L Organic Lab I GE

CHS 3505C Forensic Mic GE

CHS 4537 For L Qual Assur GE

CHS 4591 Forensic Science Internship GE

CHS 3501 Intro to For Sci GE

CHS 3533C Forensic Biochemistry I GE

PCB 3233L Immunology & lab GE

MAC 2311 Calculus & Anal Geo I GE

MAC 2312 Calculus & Anal Geo II GE

PHY 2048&L Physics Science & Eng I GE

PHY 2049&L Physics Science & Eng II GE

4. Forensic Science Core (19 hrs)

CHS 3501 Intro to Forensic Science GE

CHS 3505C Forensic Microscopy GE

CHS 4537 Forensic Lab Quality Assurance GE

CHS 3595 For Sci in the Courtroom GE

CHS 3533C Forensic Biochemistry I GE

CHS 4591 Forensic Science Internship GE

5. Forensic Biochemistry Track (29 hrs)

MCB 3020C General Microbiology GE

BCH 4053 Biochemistry I GE

BCH 4054 Biochemistry II GE

BCH 4103L Biochemical Methods Lab GE

PCS 3522 Molecular Biology I GE

PCS 4524 Molecular Biology II GE

BSC 3403C Quantitative Biological Methods GE

CHS 4534C Forensic Biochemistry II GE

CHS 4532 Interpretation of DNA Evidence GE

6. Departmental Exit Requirements

Earn a grade of "C" (2.0) or better in each course used to satisfy categories 2, 3, 4, and 5 of the departmental degree requirements.

Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 2 and 3 of the departmental degree requirements.

Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 4 and 5 of the departmental degree requirements.

Computer Competency met by CHS 3505C and CHS 4537.

American Board of Criminalists (ABC) exit exam must be taken prior to graduation, or an exit exam specified by the department.

The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF.

7. Foreign Language Requirements (0-8 hrs)

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. Electives (variable)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

9. University Minimum Exit Requirements

A 2.0 UCF GPA

60 semester hours earned after CLEP awarded
FRENCH (B.A.)

College of Arts and Humanities
Department of Modern Languages & Literatures
CNH 523,
http://www.cas.ucf.edu/forlang
E-mail: Modernlanguages@ucf.edu
P. Giordano, 407-823-2472

Admission Requirements
none

Placement in Language courses
Placement in Modern Language courses is based on one year of high school language being equivalent to one semester of college work. For example, four years of high school French may place the student in the first semester of the third year. Native speakers, or students who have received advanced education in French-speaking societies, may not take lower division French courses. They must also substitute other upper division level courses for FRE 3420, FRE 4422, FRE 3760, and FRE 4421.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- 36 credits in French must be taken at the 3000 level or above
- At least six of the 36 French credits must be at the 4000 level
- At least 30 hours must be taken in Modern Language courses taught in French
- Earn at least a “C” (2.0) in each upper division French course
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures
- Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.
- Co-op or internship credit cannot be used in this major
- Students must see their advisor to obtain proper counseling and have their schedule approved before registering for courses in their major
- Courses designated in 1 (Gen Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
      Prefer STA 2023 Statistics Using Excel 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (0-14 hrs)
   FRE 1101 Elem French Lang & Civ I 4 hrs
   FRE 1102 Elec French Lang & Civ II 4 hrs
   FRE 2200* Intern French Lang & Civ I 3 hrs
   FRE 2201 Intern French Lang & Civ II 3 hrs
   *May be met by proficiency test or completion of FRE 2201

3. Core requirements (21 hrs)
   FRE 3300 French Composition 3 hrs
   FRE 3420 Advanced French Composition 3 hrs
   or
   FRE 4422 Adv French Oral Communication 3 hrs
   or
   FRE 4421 Advanced French Conversation 3 hrs
   FRW 3100 Survey of French Literature I 3 hrs
   FRW 3101 Survey of French Literature II 3 hrs
   FOL 3760 French Phonetics and Diction 3 hrs
   FOL 3780 Romance Philology 3 hrs
   *A native or near-native French speaker must substitute alternate upper division French courses in consultation with a departmental advisor.

4. Upper Division Restricted Electives (15 hrs)
   French literature beyond the survey level
   (taught in French)
   6 hrs
5. Departmental Exit Requirements
- Earn a grade of "C" (2.0) or higher in at least 36 hours of upper division French courses
- Students are required to satisfactorily complete a departmental exit exam
- Students must submit their portfolio to their French Faculty Advisor
- Computer Competency met by CGS 1060C or equivalent

6. Foreign Language Requirements (0-16 hrs)
**Admission:** Met by Graduation requirements.
**Graduation:** Met by Common Program Prerequisites.

7. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Spanish, Foreign Language Combination

Related Minors: French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Spanish

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.

**GENERAL BUSINESS (B.S.B.A.)**
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu
Faculty Advisor: B. Moore, BA 466, 407-823-5256, bmoore@bus.ucf.edu

**Admission Requirements**
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

**Degree Requirements**
1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   Required: SPC 1600
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 3 hrs
   Select MAC 1105 College Algebra
   Select CGS 2100CC Computer Fundamentals for Bus
   D. Social Foundations 3 hrs
   Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics
   Select one: PSY 1222, SYG 2000, ANT 2000
   E. Science Foundation 6 hrs

2. Common Program Prerequisites
   Must be completed with a "C" (2.0) or better:
   ACG 2021 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2013 Macroeconomics
   ECO 2023 Microeconomics
   ECO 3401 Quantitative Business Tools I
   CGS 2100CC Computer Fundamentals for Business

3. Required for All Business Majors (30 hrs)
   First or subsequent semester in the College of Business Administration:
   - GEB 3031 Cornerstone (Required in 1st or 2nd semester) 6 hrs
   - GEB 3356 Introduction to International Business 3 hrs
   - BUS 3136 Legal & Ethical Environments of Business 3 hrs
   - ECO 3411 Quantitative Business Tools II 3 hrs
   - FIN 3403 Business Finance 3 hrs
   - MAN 3025 Management of Organizations 3 hrs
   - ISM 3011 Essentials of Management Inf Sys 3 hrs
   - MAR 3023 Marketing 3 hrs
   Last Semester:
   - MAN 4720 Strategic Management 3 hrs

4. Special college and/or department requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in General Business must apply for admission to the major.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.
- Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must have at least a 2.0 GPA in the major and COB.
- Students majoring in General Business must earn a grade of "C" (2.0) or better in each course applied towards the major, and a 2.0 overall average in the major.

5. Second Level Core (5 courses):
   Students must take one course from each of the following areas:
   - Accounting (must take ACG 3311), Economics (must take ECO 4703), Finance, Management, and Marketing. These five courses are restricted to the courses listed below:
   **Accounting**
   - ACG 3311 Financial Accounting Concept
   **Economics**
   - ECO 3401 Quantitative Business Tools II
   **Finance**
   - FIN 3403 Business Finance
   **Management**
   - MAN 3025 Management of Organizations
   **Marketing**
   - MAR 3023 Marketing

6. Restricted Electives (four courses): (12 hrs)
   Restricted electives are to be taken from three different departments and from the courses listed above, at least two of the restricted electives must be at the 4000 level.

7. Students desiring to complete the General Business major as a second major within the College of Business Administration must complete 24 hours in the second major beyond the courses required for the first major.

8. Foreign Language Requirements (0-8 hrs)
   **Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
UCF Degree Programs

Graduation: none

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Note: For detailed information about this program, see the AS to BS Program section.

HEALTH INFORMATION MANAGEMENT (B.S.)
College of Health and Public Affairs
HPA2 210, 407-823-2369
Undergraduate Program Director: Thomas Falen
E-mail: tfalen@mail.ucf.edu
Web Address: http://www.cohpa.ucf.edu/health.pro/

Admission Requirements
Acceptance to the university does not necessarily constitute admission to the upper division health information management program.

Separate Application to the limited access program must be made directly to the program prior to March 1 of the year admission is sought.

UCF application must also be submitted by the program deadline of March 1st. Acceptance to UCF is necessary before acceptance to the program can occur.

This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.

Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program.

All applicants must have a minimum overall GPA of 2.5 and complete all program prerequisite courses with at least a grade of "C" (2.0)

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions and the Common Program Prerequisites Requirements before transferring within the Florida Public University/ Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Health Information Program

1. UCF General Education Program (36 hrs)

2. Common Program Prerequisites (17 hrs)
   - ZOO 3733C Human Anatomy* 4 hrs
   - PCB 3703C Human Physiology* 4 hrs
   - STA 2014C Statistics GEP 4 hrs
   - CGS 2100C Computer Science for Business* 3 hrs
   - ACG 2021 Principles of Financial Accounting 3 hrs
   - ACG 2071 Principles of Managerial Accounting 3 hrs

3. Core Requirements (68 hrs)
   - HSC 3157 Introduction to Pharmacology 3 hrs
   - HSA 3170 Health Care Finance 3 hrs
   - HSA 4109 Principles of Managed Care 3 hrs
   - HSA 4191 Health Care Automation 3 hrs
   - HSA 4702 Health Science Research Methods 3 hrs
   - HSC 3531 Medical Terminology 3 hrs
   - HSC 3640 Health Law 3 hrs
   - HSC 4550 Pathophysiological Mechanisms 3 hrs
   - MAN 3025 Management of Organizations or 3 hrs
   - HSA 4180 Organization/Management for Health Agencies 3 hrs
   - HIM 3006 Foundations of Health Information Management 3 hrs
   - HIM 3116C Health Record Organization & Management 4 hrs
   - HIM 3800L Professional Practice Exp. I 4 hrs
   - HIM 3810L Professional Practice Exp. II 4 hrs
   - HIM 4226C Coding Procedures I 5 hrs
   - HIM 4256C Coding Procedures II 3 hrs
   - HIM 4676 Professional Development Issues in Health Information Management 3 hrs
   - HIM 4344C Health Information Department Management 4 hrs
   - HIM 4506 Quality Management 3 hrs
   - HIM 4838 Management Affiliation 5 hrs
   - HIM 4656C Health Information Management Systems 3 hrs

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (120 hrs)
A minimum 2.5 overall GPA is required for graduation.

Upon completion of the approved program, the student is eligible to submit an application for writing the national registration examination administered by the American Health Information Management Association to qualify as a Registered Health Information Administrator.

6. Electives none

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements (120 hrs)
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the
### Tentative Course Schedule for Entering Freshmen

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<th>Fall</th>
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<tr>
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<td>ENC 2102</td>
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<td>STA 2014C</td>
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<td>BSC 2100C</td>
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<td>or AMH 2010</td>
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<td>or ANT 2000</td>
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<td>POS 2041 or ECO 2013</td>
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*Plan your required nine summer hours into your course of study

### Sophomore Year

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<td>ACG 2071</td>
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<td>ZOO 3703C</td>
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<td>SPC 1600</td>
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<td>or AMH 2020</td>
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<td>One Course: ARH 2050</td>
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<td>CGS 2100CC</td>
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### Junior Year

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<td>HSC 4550**</td>
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<td>HIM 3806L</td>
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<td>MAN 3025** or HSA 4180</td>
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<td>HSC 3517</td>
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<td>HSC 3531**</td>
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### Senior Year

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<td>HSA 3170**</td>
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<td>HIM 3616L</td>
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### Summer

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<td>HSC 3640**</td>
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### Technical Standards Requirement

The Program in Athletic Training at University of Central Florida is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program’s accrediting agency (Commission on Accreditation of Athletic Training Education [CAATE]). The following abilities and expectations must be met by all students admitted to the Program in Athletic Training. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program. Compliance with the program’s technical standards does not guarantee a student’s eligibility for the BOC examination.

Candidates for selection to the Program in Athletic Training must demonstrate:

- The mental capacity to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm;
- Sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques; and accurately, safely and efficiently use equipment and materials during the assessment and treatment of patients;
- The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice;
- The ability to record the physical examination results and a treatment plan clearly and accurately;
- The capacity to maintain composure and continue to function well during periods of high stress;
- The perseverance, diligence, and commitment to complete the athletic training education program as outlined and sequenced;
- Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations;
- Affective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

Candidates for selection to the Program in Athletic Training will be required to verify they understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards. University of Central Florida will evaluate a student who states he/she could meet the program's technical standards with accommodation and confirm that the stated condition qualifies as a disability under applicable laws. If a student states he/she can meet the technical standards with accommodation, then the University will determine whether he/she is the student can meet the technical standards with reasonable accommodation. This includes a review whether the accommodations requested are reasonable, taking into account whether accommodation would jeopardize clinician/patient safety, or the educational process of the student or the institution, including all coursework, clinical experiences and internships deemed essential to graduation. Each candidate must meet the University foreign language admission requirements for graduation.

**NOTE:** The asterisked courses may be taken at any time during the two years. The HIM courses are offered only during the semester in which they appear on this schedule and are restricted to majors only.

**Health Sciences - Athletic Training Track (B.S.)**

College of Health and Public Affairs

HPA2 210, 407-823-3463

http://www.cohpa.ucf.edu/health.pro/athletic

E-mail: kschell@mail.ucf.edu

Undergraduate Program Director: Kristen C. Schellhase, MEd, ATC, CSCS

**Admission Requirements**

Students may only begin the athletic training program track in the Summer semester and must have:

A. Acceptance to the University as an undergraduate student in Health Sciences - Athletic Training Pending.
B. A minimum of 2.75 overall grade point average.
UCF Degree Programs

provide a copy of a recent physical examination that will be evaluated by the program’s medical director.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students should complete the General Education Program, Admission Foreign Language requirement and the Common Program Prerequisites before transferring within the Florida Public University/Community College System.
- Students should consult with a departmental advisor.
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours.
- UCF Residency Requirement: 30 hours.

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs.
   - B. Cultural Historical Foundations 9 hrs.
   - C. Mathematical Foundations 6 hrs.
     - Select MAC 1105 or MAC 1106.
     - STA 2023.
   - D. Social Foundations 6 hrs.
     - Select POS 2041 or POS 2042.
   - E. Scientific Foundations 6 hrs.
     - BSC 2010C.
     - CHM 1032.

2. Common Course Prerequisites (15 hrs)
   - The following courses are required before entering the professional phase of the Program in Athletic Training. Each of the required courses must have a grade of "C" (2.0) or better.
   - BSC 2010C Biology I and Lab.
   - ZOO 3733C Human Anatomy.
   - PCB 3703C Human Physiology.
   - CHM 2045C Chemistry Fundamentals I.
   - PHY 2053C Coll Physics I (algebra based) or PHY 20486L Physics for Scientists I (calculus based).
   - HUN 2002 Modern Concepts of Nutrition.
   - STA 2023 Statistical Methods I.
   - PSY 2012 General Psychology.

3. Professional Phase (58 hrs)
   - The following courses are required to complete the professional phase of the Program in Athletic Training. Each of the required courses must have a grade of "C" (2.0) or better.
   - PET 4603 Introduction to Athletic Training.
   - PET 3620C Principles of Athletic Training.
   - PET 3670C Practicum in Athletic Training I.
   - PET 4315C App Exercise and Human Phys.
   - PET 3623C Recognition and Evaluation of Athletic Injuries I.
   - PET 3671C Practicum in Athletic Training II.
   - PET 4660C Org and Adm in Athletic Training.
   - PET 4630C Ther Exercise in Athletic Training.
   - PET 4632C Ther Mod in Athletic Training.
   - PET 4624C Recognition and Evaluation of Athletic Injuries II.
   - PET 4315C Biomechanics of Sport.
   - PET 4627C Practicum in Athletic Training III.
   - HSA 4702 Health Science Research.
   - PET 4606 App Fitness in Sport.
   - PET 4673C Practicum in Athletic Training IV.
   - HSC 3157 Introduction to Pharmacology.
   - PET 4604 Sports Medicine in Field Application.
   - PET 4674 Senior Seminar.

4. Upper Division Restricted Electives none.

5. Departmental Exit Requirements (120 hrs)
   - Two years of successful clinical rotation under the direct supervision of a certified Athletic Trainer (ATC).

6. Electives (variable)

7. Foreign Language Requirements (0-8 hrs)
   - Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA.
   - 60 semester hours earned after CLEP awarded.
   - 48 semester hours of upper division credit completed.
   - 30 of the last 36 hours of course work must be completed in residence at UCF.
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 120 hrs.


Related Minors: Business, Computer Sciences, Aging Studies, Biology, Coaching, Fitness Training, Health Information Management, Health Sciences, Health Services Administration and Public Administration. Courses leading to a teaching certificate (education) are also appropriate. Electives in advanced scientific, clinical or quantitative subjects are also advisable.

Transfer Notes:
- Biology I with Lab (BSC 1010/L) 4 hrs.
- Human Anatomy and Physiology I & II (BSC X093 and X094 or BSC X085 and X086).

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen

Freshman Year*
- Fall 15 hrs
  - ENC 1101 3
  - PSY 2012 3
  - HSC 2000 2
  - MAC 1105 3
  - CHM 2045C 4

- Spring 14 hrs
  - ENC 1102 3
  - POS 2041 3
  - BSC 2010C 4
  - MAC 1104 4
  - CHM 2045C 4

Sophomore Year
- Fall 14 hrs
  - PHY 2053C 4
  - ZOO 3733C 4
  - STA 2023 3
  - HUN 2002 or HUM 2210 3
  - PCB 3703C 4
  - PET 4603 3
  - PET 3620C 3
  - PET 3670C 4
  - PET 3631C 3
  - PET 4632C 4
  - PET 4606 3
  - PET 4660C 4
  - PET 4630C 4
  - PET 4632C 4
  - PET 4624C 4
  - PET 4615C 3
  - PET 4672C 4
  - PET 4674 1 hr

- Spring 16 hrs
  - UPH 2000 or PHI 2010 4
  - PCB 3703C 4
  - HUN 2002 3
  - PET 4606 3
  - PET 4660C 4
  - PET 4630C 4
  - PET 4632C 4
  - PET 4624C 4
  - PET 4615C 3
  - PET 4672C 4
  - PET 4674 1 hr
  - PET 4603 3
  - PET 3620C 3
  - PET 3670C 4
  - PET 3631C 3
  - PET 4632C 4
  - PET 4606 3
  - PET 4660C 4
  - PET 4630C 4
  - PET 4632C 4
  - PET 4624C 4

Junior Year
- Fall 13 hrs
  - PET 3620C 3
  - PET 3670C 4
  - HSC 3157 3
  - PET 4603 3
  - PET 4660C 4
  - PET 4630C 4
  - PET 4632C 4
  - PET 4624C 4

- Spring 13 hrs
  - PET 3670C 4
  - HSC 3157 3
  - PET 4603 3
  - PET 4660C 4
  - PET 4630C 4
  - PET 4632C 4
  - PET 4624C 4

Summer
- 8 hrs
  - Elective 3

Senior Year
- Fall 14 hrs
  - PET 4603 3
  - HSA 4702 3
  - PET 4660C 4
  - PET 4630C 4
  - Elective 3

- Spring 13 hrs
  - PET 4603 3
  - HSA 4702 3
  - PET 4660C 4
  - PET 4630C 4
  - Elective 3

UCF 2006-2007 Undergraduate Catalog
HEALTH SCIENCES - Pre-Clinical Allied Health Track (B.S.)

College of Health and Public Affairs
HPA2 210, 407-823-2369
http://www.cohea.ucf.edu/healthpro/

The Health Sciences Pre-Clinical Allied Health Track is a Preparatory Program for Graduate Level Clinical Disciplines for the student who wishes to seek admission to graduate level clinical programs such as physical therapy, occupational therapy and physician assistant programs. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health or Health Services Administration.

Admission Requirements: none

Degree Requirements
- Students should complete the General Education Program and the Common Program Prerequisites requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- Students must earn at least a "C" (2.0) in each course accepted as a Common Program Prerequisite and Core Requirement (see sections 2 and 3 below)
- No transfer course will be accepted with a grade lower than a "C."
- Students who change degree programs and select this major must adopt the most current catalog
- Students should have access to a personal computer, modem, and software in order to interact with the instructional faculty
- Courses in math, biology, chemistry and physics listed are the minimum levels. Students with adequate preparation are encouraged to enroll in higher course levels in the discipline.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      - Select MUL 1020 Enjoyment of Music or REL 2300 World Religions or THE 2000 Theater Survey or PHI 2010 Intro to Philosophy
   B. Cultural Historical Foundations
      - Select MAC 1144 Trigonometry, MAC 2312 Calculus I, MAC 2313 Calculus II, or MAC 2314 Calculus II with Analytic Geometry
   C. Mathematical Foundations
      - Select STA 2014 or STA 2023 Statistics
   D. Social Foundations
      - Select ECO 2013 Principles of Economics I or ECO 2023 Principles of Economics II
      - Select PSY 2012 General Psychology
   E. Science Foundations
      - Select BSC 2053C College Physics I and Lab
      - Select PHY 2014C College Physics I or PHY 2053C College Physics I (not for Sci and Eng)

2. Common Program Prerequisites (0 hrs)
   - MAC 1144 Trigonometry or STA 2014C Principles of Statistics or STA 2023 Statistical Method I or BSC 2010C Biology I

3. Core Requirements - Lower Division (30 hrs)
   - CGS 1006C Intro to Computer Science or CGS 2100C Computer Fundamentals for Business 3 hrs
   - CHM2045C Chemistry Fundamentals I with lab 4 hrs
   - CHM2046 Chemistry Fundamentals II 3 hrs
   - CHM2046L Chemistry Fundamentals II lab 1 hr
   - CHM2205 Introduction to Organic and Biochemistry 3 hrs
   - DEP2004 Developmental Psychology 3 hrs
   - ECO2023 Microeconomics or ECO2023 Microeconomics or ECO2023 Microeconomics 3 hrs
   - HSC 2000 Intro to the Allied Health Professions 2 hrs
   - HUN2020 Modern Concepts in Nutrition 3 hrs
   - MAC 1114 College Trigonometry or MCB2004 Microbiology for Health Professionals 4 hrs
   - PHY2053C College Physics I (not for Sci and Eng) or PHY2054C College Physics II (not for Sci and Eng) 4 hrs

UCF Degree Programs

4. Core Requirements - Upper Division (41 hrs)
   - Basic and Health Sciences
     - HSC3157 Introduction to Pharmacology 3 hrs
     - HSC4550 Pathophysiology 3 hrs
     - ZOO3703 Physiology 4 hrs
     - ZOO3733 Anatomy 4 hrs
   - Health Services
     - HSA 3111 US Healthcare Systems 3 hrs
     - HSA 4201 Community Health Services 3 hrs
     - HSA 4180 Org & Mgt of Health Agencies 3 hrs
     - HSA 3430 Health Care Economics 3 hrs
     - HSC 3640 Health Law 3 hrs
     - HSC 4500 Epidemiology 3 hrs
     - HSC 4653 Healthcare Ethics 3 hrs
     - HSA 4702 Health Sciences Research Methods 3 hrs
     - HIM 4506 Quality Management 3 hrs

5. Upper Division Restricted Electives: Choose a minimum of 3 courses from the list below
   - HSA 3170 Health Care Finance 3 hrs
   - HSA 3222 Long Term Care Administration 3 hrs
   - HSA 4109 Managed Care 3 hrs
   - HSA 4191 Health Care Automation 3 hrs
   - HSC 3110C Medical Self Assessment 3 hrs
   - HSC 3531 Medical Terminology 3 hrs
   - HSC 4243 Analysis of Instruction 3 hrs
   - HSC 4564 Healthcare Needs of the Elderly 3 hrs
   - HSC 3593 HIV Disease 3 hrs
   - HSC 4008 Professional Development of the Health Prof'ns 3 hrs
   - PHT 4119C Clinical Gross Anatomy 4 hrs

6. Unrestricted Electives (variable)

7. Foreign Language Requirements (0-8 hrs)
   Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None

8. Program Exit Requirements (120 hrs)
   - The students must attain a minimum grade of "C" (2.0) in all Common Program Prerequisite courses and in all Core Requirements (see sections 2, 3 and 4 above). An overall 2.0 GPA must be attained for all coursework (see sections 1 - 5).
   - Students should note that graduate programs may require a higher level of performance for admission.

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: The participating student may also consider applying for consideration to one or more of the following undergraduate professional degree options: Health Information Management, Athletic Training, Cardiopulmonary Sciences, Radiologic Sciences, Health Services Administration. The program is a Preparatory Program for Graduate Level Clinical Disciplines for the student who wishes to seek admission to graduate level clinical programs such as physical therapy, occupational therapy and physician assistant programs. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health or Health Services Administration.

Related Minors: Health Information Management, Health Services Administration.
UCF Degree Programs

Transfer Notes: Completion of the Associate of Arts Degree is strongly recommended. Students who transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen

**Freshman Year**

**Fall**
- ENC 1101 3
- CJS 1060C or CJS 2100CC 3
- CHM 2045C 4
- MAC 1114 3
- HSC 2000 2

**Spring**
- ENC 1102 3
- CHM 2046 & 2046L 4
- BSC 2010C 4
- PSY 2012 3

**Sophomore Year**

**Fall**
- PHY 2053C 4
- HUN 2002 3
- SPC 1500 3
- EUH 2000 or HUM 2211 or AMH 2010 3
- STA 2014C 3

**Spring**
- MUL 2010 or REL 2300 3
- or THE 2000 or PHI 2010
- MCB2004 4
- CHM 2205 3
- EUH 2001 or HUM 2230 or HUM 2020 3

**Senior Year**

**Fall**
- DEP 2004 3
- HSA 3111 3
- PHY 2054C 4
- ZOO 3733 4
- HSA 4702 3

**Spring**
- HSA 4180 Organization and Management for Health Agencies 3 hrs
- HSA 4419 Health Care Automation 3 hrs
- HSA 4502 Risk Management or HIM 4506 Quality Management 3 hrs
- HSC 4351 Medical Terminology 3 hrs
- HSC 4360 Health Law 3 hrs
- HSC 4564 Health Care Needs of the Elderly 3 hrs
- HSC 4563 Health Care Ethics 3 hrs

**Junior Year**

**Fall**
- DEP 2004 3
- HSA 3111 3
- PHY 2054C 4
- ZOO 3733 4
- HSA 4702 3

**Spring**
- HSA 4180 Organization and Management for Health Agencies 3 hrs
- HSA 4419 Health Care Automation 3 hrs
- HSA 4502 Risk Management or HIM 4506 Quality Management 3 hrs
- HSC 4351 Medical Terminology 3 hrs
- HSC 4360 Health Law 3 hrs
- HSC 4564 Health Care Needs of the Elderly 3 hrs
- HSC 4563 Health Care Ethics 3 hrs

**Summer**
- Foreign Lang I* or other lower level courses 2/4
- Foreign Lang II* or other lower level courses 3/4
  * if not satisfied in high school.

**HEALTH SERVICES ADMINISTRATION (B.S)**

College of Health and Public Affairs

HPA2 210, 407-823-2359

http://www.cohpa.ucf.edu/health/pro/

Executive Director of HSA Programs: Myron Fottler
Undergraduate Program Director: Thomas Falen
Graduate Program Director: Dawn Oeljen

This program is also currently available online. Students who choose to take online courses are urged to take additional Health Services Administration courses as electives or other courses that will enhance their background in the health care industry. These may be used to build minors and certificates offered by the University. Examples include: Health Sciences, Aging Studies, Public Administration, Criminal Justice, and Business. HSA elective courses include:

- HSA 4941 HSA Internship
- HIM 4565C Health Information Management Systems
- HIM 3006 Foundations of Health Information Management
- HIM 4506 Quality Management

Admission Requirements none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- UCF Residency Requirement: 30 hours

**1. UCF General Education Program** (36 hrs)
A. Communication Foundations 9 hrs
   - Prefer SPC 1600
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
   - Select MAC 1105
   - Select STA 2014C or STA 2023
D. Social Foundations 6 hrs
   - Select ECO 2023
E. Science Foundations 6 hrs

**2. Common Program Prerequisites** (9 hrs)
- CJS 2100CC Computer Fund for Business Applications or
- CGS1060C Intro to Computer Science
- ECO 2023 Microeconomics
- ACG 2001 Financial Accounting 3 hrs
- ACG 2071 Management Accounting 3 hrs
- STA 2014C or STA 2023

Students must earn a “C” (2.0) or better in each Common Program Prerequisite course.

**3. Core Requirements** (45 hrs)
- HSA 3111 U.S. Health Care Systems 3 hrs
- HSA 3170 Health Care Finance 3 hrs
- HSA 3222 Long Term Care Administration 3 hrs
- HSA 4109 Principles of Managed Care 3 hrs
- HSA 4201 Community Health Services 3 hrs
- HSA 4180 Organization and Management for Health Agencies 3 hrs
- HSA 4419 Health Care Automation 3 hrs
- HSA 4502 Risk Management or HIM 4506 Quality Management 3 hrs
- HSA 4702 Health Sciences Research Methods 3 hrs
- HSC 3351 Medical Terminology 3 hrs
- HSC 4360 Health Law 3 hrs
- HSC 4564 Health Care Needs of the Elderly 3 hrs
- HSC 4563 Health Care Ethics 3 hrs
- HSA 3430 Health Care Economics 3 hrs

Students must earn a “C” (2.0) or better in each Core Requirement course.

**4. Upper Division Restricted Electives**

- none

**5. Program Exit Requirements** (120 hrs)
Students must earn a “C” (2.0) or better in each Health Services Administration elective course.

**6. Electives** (variable)

Students are encouraged to take additional Health Service Administration courses as electives or other courses that will enhance their background in the health care industry. These may be used to build minors and certificates offered by the University. Examples include: Health Sciences, Aging Studies, Public Administration, Criminal Justice, and Business. HSA elective courses include:

- HSA 4941 HSA Internship
- HIM 4565C Health Information Management Systems
- HIM 3006 Foundations of Health Information Management
- HIM 4506 Quality Management

**7. Foreign Language Requirements** (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

**8. University Minimum Exit Requirements**
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP.
Tentative Course Schedule for Entering Freshmen

**Freshman Year* (Fall)**
- ENC 1101 3
- PSY 2012 or SYG 2000 3
- HSC 2000 2
- MAC 1105 3
- Elective 3

**Spring**
- ENC 1102 3
- ECO 2013 3
- REL 2300 or PHI 2010 3
- SPC 1500 3

**Sophomore Year (Fall)**
- ACG 2021 3
- ECO 2023 3
- BSC 1005 3
- EUH 2000 or HUM 2210 3
- CGS 2100CC 3

**Spring**
- ACG 2071 3
- STA 2023 3
- HSA 3111 3
- EUH 2001 or HUM 2230 3
- Elective 3

**Summer**
- Foreign Language I 4
- Foreign Language II 4

_(If not satisfied in high school)_

**Junior Year (Fall)**
- HSC 4500 3
- HSA 3222 3
- HSC 3531 3
- HSA 4201 3
- Elective 3

**Spring**
- HSA 4191 3
- HSA 3170 3
- Elective 3
- Elective 3

**Senior Year (Fall)**
- HSA 3430 3
- HSC 3640 3
- HSC 4653 3
- HSA 4502 or HIM 4506 3
- Elective 3

**Spring**
- HSC 4564 3
- HSA 4109 3
- Internship 3
- HSA 4702 3
- Elective 3

**Notes:**
Students are urged to have access to a personal computer, modem, and appropriate software to interact with the University and professors. A variety of internship opportunities are available for HSA majors. An internship is not required but highly recommended.

**HISTORY (B.A.)**

**College of Arts and Humanities**

**History Department, CNH 551,**

[http://pegasus.cc.ucf.edu/~history](http://pegasus.cc.ucf.edu/~history)

E-mail: history@ucf.edu

E. Kallina, 407-823-2224

**Admission Requirements**

- none

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each history course for it to be counted toward the major.
- Co-op credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF History Department.

**Related Programs:**
- Aging Studies Certificate, Public Administration, Health Information Management.
- Health Sciences, Information Systems, and Public Administration.

**Related Minors:**
- Aging Studies, Health Information Management.

**Related Programs:**
- Public Administration, Computer Competency met by completion of the major.

**Credit by Exam and Armed Forces credits permitted**

**Total Semester Hours Required**

- 120 hours
**UCF Degree Programs**

**Related Programs:** Humanities

**Related Minors:** African-American Studies, American Studies, Asian Studies, Humanities, Judaic Studies, Latin American Area Studies, Women’s Studies

**Transfer Notes:**
- Grades below “C” (2.0) are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:
- AMH 2010* & 2020*: may use any two introductory courses with an AMH, EUH, LAH, ASH, HIS or WOH prefix. However AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.

**Suggested Plan of Study:**
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

**Freshman Year**

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<th>Fall</th>
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<tr>
<td>AMH 2010 U S His 1492 1877</td>
<td>AMH 2020 U S His 1877 Pres</td>
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<tr>
<td>BSC 1005* req# 1E2-GE</td>
<td>AST 2002* req# 1E1-GE</td>
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<td>ENC 101 Composition</td>
<td>ENC 1102 Composition II</td>
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<td>MGF 1106* req# 1C1-GE</td>
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**Sophomore Year**

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<td>ARH 2050* req# 1B3-GE</td>
<td>AMH 201* req# 3-Core</td>
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<td>CGS 1000C Intro to Comp Sci</td>
<td>EUH 2001* req# 3 Core</td>
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<td>EUH 2002* req# 3-GE</td>
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<td>SN 220* req# Lang/Elect</td>
<td>SPN 1121* req# Lang/Elect</td>
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**Junior Year**

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<tr>
<td>ASH 4150 History &amp; Histms</td>
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<td>EUH 3310* req# 4.2-ResEle</td>
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**Senior Year**

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<td>LAH 3130* req# 4.3-ResEle</td>
<td>AMH 3423* req# 4.4-ResEle</td>
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<td>AMH 3571* req# 4.4-ResEle</td>
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<tr>
<td>Elective* Check restrictions</td>
<td>Portfolio See catalog</td>
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**HISTORY ACCELERATED PROGRAM (B.A. and M.A.)**

**Accelerated Undergraduate/Graduate Program**

Note: For detailed information about this program, see description in the “Accelerated Undergraduate/Graduate Program” section of this Undergraduate Catalog.

**HOSPITALITY MANAGEMENT (B.S.)**

Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

**Degree Requirements**

**1. UCF General Education Program** (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural and Historical Foundations 9 hrs
   - C. Mathematical Foundations
     Select MAC 1105 College Algebra 3 hrs

**2. Common Program Prerequisites** (3 hrs)
- HFT 1000 Introduction to Hospitality/Tourism

**3. Hospitality Management Core** (52 hrs)

A. Quantitative Tools
- CGS 2100C Computer Fundamentals of Business
- STA 2023 Statistical Methods I (GE)
- ECO 2013 Macroeconomics (GE)
- ECO 2023 Microeconomics (GE)

B. Fundamentals
- FSS 2221C Quantity Food Preparation 3 hrs
- HFT 3540 Guest Services Management 3 hrs

C. Managerial Tools
- HFT 2403 Hospitality Financial Accounting 3 hrs
- HFT 3431 Hospitality Management Accounting 3 hrs
- HFT 2500 Hospitality Marketing 3 hrs
- HFT 2220 Hospitality Human Resource Mgmt 3 hrs
- HFT 3444 Hospitality Information Systems 3 hrs
- HFT 3600 Legal Environment in Hospitality 3 hrs
- HFT 4295 Leadership and Strg Mgmt in Hospitality Ind 3 hrs
- HFT 4296 Hospitality Organizational Communications 3 hrs
- HFT 4462 Hospitality Industry Finance 3 hrs

D. Sectoral Studies – Choose 5 of the following 6 courses (15 hrs)
- HFT 2254 Lodging Operations 3 hrs
- HFT 3700 Tourism Management 3 hrs
- HFT 2750 The Event Industry 3 hrs
- HFT 3261 Restaurant Management 3 hrs
- HFT 2373 Principles of Resort Time Sharing 3 hrs
- HFT 4755 Theme Park and Attraction Mgmt 3 hrs

E. Internships
- HFT 3940 Internship I 1 hr
- HFT 4941 Internship II 1 hr
- HFT 4941 Internship III 1 hr

F. Guest Lectures
- HFT 3933 Distinguished Lectures in Hospitality Management 1 hr

**4. Special College Requirements:**
- Final exams will be given during Final Exam Week only.
- Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management core classes or restricted electives at UCF.

**5. Restricted Electives:**
Students must take 15 credit hours of Hospitality Management courses from the following list for the Generalist track. Alternatively, students may choose one of the seven specialized career tracks as outlined below.

**A. Generalist Track** (15 hrs)
Choose five advanced courses from the following list:
- HFT 3313 Hospitality Physical Plant Management 3 hrs
- HFT 4343 Hospitality Facilities Planning & Design 3 hrs
- HFT 4298 Hospitality Business Consulting 3 hrs
- HFT 4473 Hotel Development Analysis 3 hrs
- HFT 3785 Management of Gaming Enterprises 3 hrs
- HFT 3807 Multi-Unit Food Service Organizations 3 hrs
- HFT 4631C Beverage Management 3 hrs
- FSS 3124 Supply and Procurement Management 3 hrs
- FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
- FSS 3232C Intermediate Techniques of Food Production 3 hrs
- FSS 4286C Catering and Banquet Organization 3 hrs
- HFT 4753 Convention & Conference Services 3 hrs
- HFT 4754 Exhibit & Trade Show Operations 3 hrs
- HFT 4735 Tourism Geography 3 hrs
- HFT 4722 Travel Agency Management 3 hrs
- HFT 4762 Current Practices in the Airline Industry 3 hrs
- HFT 4275 Development of Vacation Ownership Resorts 3 hrs
- HFT 3741 Meeting Management 3 hrs
- HFT 3757 Event Management 3 hrs
- HFT 4266 Restaurant Brand Management 3 hrs
- HFT 4268 Case Studies in Restaurant Management 3 hrs
- HFT 4644 Sanitation Mgmt in Foodservice Industry 3 hrs
- HFT 4274 Vacation Ownership Resort Management 3 hrs

Select CGS 2100C Computer Fundamentals for Bus or STA 2023 Statistical Methods I 3 hrs
Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics 3 hrs
Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
Select E. Science Foundation 6 hrs
D. Theme Park and Attraction Mgmt Track – Choose 5 Courses (15 hrs)

- HFT 4786 Managing the Guest Experience in Theme Parks and Attractions 3 hrs
- HFT 4759 Product Development in Theme Parks and Attractions 3 hrs
- HFT 4758 Contemporary Issues in the Theme Park and Attractions Industry 3 hrs
- HFT 4532 Managing the Employee Experience in Theme Parks and Attractions Industry 3 hrs
- HFT 4787 Operational Issues in the Theme Park and Attraction Industry 3 hrs

E. Tourism Management Track (15 hrs)

- HFT 4725 Tourism Geography 3 hrs
- HFT 4722 Travel Agency Management 3 hrs
- HFT 4762 Current Practices in the Airline Industry 3 hrs
- HFT 4754 Exhibit & Trade Show Operations 3 hrs
- HFT 3757 Event Management 3 hrs

F. Lodging Management Track (15 hrs)

- HFT 3313 Hospitality Physical Plant Management 3 hrs
- HFT 4343 Hospitality Facilities Planning & Design 3 hrs
- HFT 4473 Hotel Development Analysis 3 hrs
- HFT 4253 Hotel Operations 3 hrs
- HFT 3515 Reservations Sales & Marketing 3 hrs

G. Hospitality Financial Management and Technology (15 hrs)

- HFT 4442 Vacation Ownership Resort Reservations/ and Technologies 3 hrs
- HFT 4758 Contemporary Issues in the Theme Park and Attractions Industry 3 hrs
- HFT 3570 Catering Management 3 hrs
- HFT 4532 Managing the Employee Experience in Theme Parks and Attractions Industry 3 hrs
- HFT 4787 Operational Issues in the Theme Park and Attraction Industry 3 hrs

H. Golf Management Track – Choose 5 Courses (15 hrs)

- HFT 3355 Golf Planning and Operations I 3 hrs
- HFT 3356 Golf Planning and Operations II 3 hrs
- HFT 4354 Agronomy for Golf Course Mgmt 3 hrs
- HFT 4358 Golf Course Facility Design 3 hrs

6. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

8. Unrestricted Electives (6-14 hrs)

As necessary to result in 120 total credit hours.

Total Semester Hours Required 120 hours

Community/Junior College Transfer Notes

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF College of Hospitality Management.
- Florida Public Community College students are encouraged to complete the general education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the hospitality major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

FOUR YEAR PLAN OF STUDY FOR HOSPITALITY MANAGEMENT*

*Plan your required nine summer credit hours into your course of study.
### Degree Requirements

#### Admission Requirements
None

#### Degree Requirements

- **Students who change degree programs and select this major must adopt the most current catalog.**
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a “C” (2.0) in each required course.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

#### 1. UCF General Education Program (36 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select HUM 2210 Humanistic Tradition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select HUM 2230 Humanistic Tradition II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Prefer PHI 2010 Intro to Philosophy or REL 2300 World Religions</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Prefer MGF 1106 Finite Mathematics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>(may substitute a higher level math)</td>
<td></td>
</tr>
<tr>
<td>Prefer STA 1060C Statistics Using Excel</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

#### 2. Common Program Prerequisites
None

#### 3. Core requirements (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 2210 Humanistic Traditions I</td>
<td>GEP</td>
</tr>
<tr>
<td>HUM 2230 Humanistic Traditions II</td>
<td>GEP</td>
</tr>
<tr>
<td>HUM 2020 Encountering the Humanities</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HUM 4933 Humanities Senior Research Seminar</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

#### 4. Concentrations (choose one) (23 hrs)

#### 5. Upper division Restricted Electives (3 hrs)

Select one course from the “Traditions and Applications” category in the concentrations that are not being used to satisfy Core Requirements, or from the following:

### A. Classical Humanities

- **Foundations** (9 hrs)
  - HUM 4301 The Classical Ideal
  - Select two courses
  - HUM 3431 Ancient Humanities
  - HUM 3435 Medieval Humanities
  - HUM 3525 Modern Humanities

- **Western Traditions and Applications** (9 hrs)
  - ARH 4310 Italian Renaissance Art
  - ARH 4170 Greek and Roman Art
  - HUM 3552 Christian Thought
  - HUM 3553 Moses, Jesus, & Mohammed
  - CLA 3850 Classical Mythology
  - CLA 3851 Comparative Mythology
  - JST 3401 The Jewish People I
  - REL 3432 Roots of Western Mysticism
  - Only one of the following may be taken:
    - PHH 3200 Ancient Philosophy
    - PHH 3460 Modern Western Philosophy

### B. Multicultural Humanities

- **Foundations** (9 hrs)
  - HUM 3320 Contemporary Multicultural Studies
  - Select one
  - HUM 3431 Ancient Humanities
  - HUM 3435 Medieval Humanities
  - HUM 3525 Modern Humanities

- **Traditions and Applications** (15 hrs)
  - ANT 3311 Indians of the Southeastern US
  - ARH 3250 African Art
  - HUM 3401 Asian Humanities
  - HUM 3417 Hindu Thought and Culture
  - HUM 3419 Islamic Thought and Culture
  - HUM 3XXX Latin American Humanities
  - HUM 4303 The Spiritual Ideal
  - HUM 4554 Religious Quest and the Human Dilemma
  - PHI 3XXX African Philosophy

### C. Critical Humanities

- **Foundations** (9 hrs)
  - HUM 3255 Modern Humanities
  - HUM 3252 Contemporary Humanities
  - PHI 4804 Critical Theory

- **Traditions and Applications** (15 hrs)
  - HUM 4330 Performance Theory
  - HUM 4554 Religious Quest and the Human Dilemma
  - HUM 3930 Representations of Place and Space
  - PHH 3510 Marx and Nietzsche
  - PHH 3600 Contemporary Philosophy
  - PHH 3688 Ethical Issues in the 21st Century
  - PHI 4321 Philosophy of Embodiment: Mind/Body/Self
  - PHI 4303 Philosophy, Religion, and the Environment
  - PHI 4322 Sexuality, Gender, and Philosophy
  - PHI 3803 Philosophy and Creativity
  - PHH 3123 Feminist Theories
  - PHH 3786 Existentialism
  - PHH 4373 Modernity as a Philosophical Problem
  - PHI 4782 Phenomenology
  - REL 3111 Religion and Philosophy through Film
  - REL 3115 Religion, Spirituality, and Popular Music
  - REL 3162 Healing: Culture, Art, and Praxis
  - HUM 3800 Research Methods in Humanities

### HOSPITALITY MANAGEMENT (B.S.)

#### A.S. to B.S. Track

**Note:** For detailed information about this program, see description in the AS to BS Programs section.
6. Honors in the Major
Students considering graduate school in humanities are strongly encouraged to take Honors in the Major. Requirements are as follows:

Core and Elective Requirements (30 hrs)
Same requirements as for regular majors

Honors Thesis
HUM 4903H Honors Directed Readings 3 hrs
HUM 4970H Honors Thesis 3 hrs

Additional Requirements
- Application and admission through the Humanities Honors Coordinator and the Burnett Honors College
- Fulfill University requirements for Honors in the Major
- Earn a “B” (3.0) or better in both HUM 4903H and HUM 4970H
- Maintain a UCF GPA of at least 3.2 and a Humanities GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

7. Departmental Exit Requirements
- Earn a “C” (2.0) or better in each required course
- Computer Competency met by HUM 4970H, HUM 4933, or by STA 1060C.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

8. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

9. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside the department.

10. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Religious Studies, Philosophy, Humanities-Philosophy, Religion, and Popular Culture
Related Minors: Environmental Studies, Humanities, Philosophy, Religious Studies
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

UCF Degree Programs

HUMANITIES—PHILOSOPHY, RELIGION & POPULAR CULTURE TRACK (B.A.)
College of Arts and Humanities
Philosophy Department, CNH 411
e-mail: philosophy@ucf.edu
Advisor: Bruce Janz, 407-823-2273; Fax: 407-823-6658
Advisor (Cocoa): Shelley Park; 321-433-7919

Admission Requirements: none
Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a “C” (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations
  Select HUM 2210 Humanistic Tradition I 3 hrs
  Select HUM 2230 Humanistic Tradition II 3 hrs
  Select REL 2300 World Religions or PHI 2010 Intro to Phil 3 hrs
C. Mathematical Foundations
  Prefer MGF 3106 Finite Mathematics
  (May substitute a higher level math)
  Prefer STA 1060C Statistics Using Excel 6 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites: none
3. Core requirements (18 hrs)
   a. Core
      HUM 2210 Humanistic Traditions I GEP
      HUM 2230 Humanistic Traditions II GEP
      PHI 2010 Intro to Philosophy GEP
   b. Theoretical Foundations
      PHI 3864 Ways of Living GEP
      PHI 4341 Ways of Knowing GEP
   c. Philosophy
      Select two courses:
### UCF Degree Programs

**UCF General Education Program for Engineering Students**

The UCF General Education Program (GEP) is described in the section, General Education Foundation, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A through E, below to minimize excess hours. Students transferring UCF from within the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

**A. Communication Foundations**
- 1. Select ENC 1101 & ENC 1102
- 2. Prefer SPC 1016

**B. Cultural and Historical Foundations**
- 1. Select two courses from Historical Foundations

**C. Mathematical Foundations**
- 1. Select MAC 2311 (PR: MAC 1114)
- 2. Select STA 3023 (PR: MAC 2312)

**D. Social Foundations**
- 1. Prefer ECO 2013 or ECO 2023

**E. Science Foundations**
- 1. Select PHY 2048/L (PR: MAC 2311)
- 2. ANT 2011, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310

**2. Common Program Prerequisites (CPP’s)**

These courses are specifically required for all engineering students.
of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. A 2.0 cumulative GPA or better is required for those courses in section 2, marked with an asterisk (*). Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440 Fundamentals of Chemistry for Eng* 4 hr (CHM 2045C/45L will substitute)
MAC 2311 Calculus with Analytic Geometry I* 4 hrs
MAC 2312 Calculus with Analytic Geometry II* 4 hrs
MAC 2313 Calculus with Analytic Geometry III* 4 hrs
MAP 2302 Differential Equations* 3 hrs
PHY 2048/49L Physics for Engineers & Scientists I* GEP 4 hrs
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP
Humanities Courses GEP
Social Science Courses GEP
Humanities or Social Sciences GEP

3. Courses Required for the Engineering Core (22 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the courses for the major listed in 4., the technical elective courses listed in 5. below, and with the senior design course listed in 6. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1111C Engineering Computer Graphics 2 hrs
EGN 1007C Engineering Concepts & Methods 1 hr
EGN 3211 Engineering Analysis & Computation 3 hrs
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics 3 hrs
EGN 3358 Thermo-Fluids-Heat Transfer or Thermodynamics 3 hrs
EGN 3343 Structures & Properties of Materials 3 hrs
EGN 3373 Principles of Electrical Engineering 3 hrs

4. Courses Required for the Major (40 hrs)
The Industrial Engineering and Management Systems Department requires all students within the major to achieve a 2.0 GPA or better in each course listed in sections 4., 5., and 6.

EGN 3613 Engineering Economic Analysis 2 hrs
EGN 4624 Engineering Administration 3 hrs
STA 3022 Probability & Statistics for Engineers GE
EIN 3000 Introduction to IE & MS 2 hrs
EIN 3314C Work Measurement & Design 3 hrs
EIN 3254 Principles of Cost Engineering 3 hrs
EIN 4628C IE Applications of Computers 3 hrs
EIN 4243C Human Engineering 3 hrs
EIN 4333C Industrial Control Systems 3 hrs
EIN 4364C Industrial Planning & Design 3 hrs
EIN 4391C Manufacturing Engineering 3 hrs
ESI 4221 Empirical Methods for IE 3 hr
ESI 4234 Quality Engineering 3 hrs
ESI 4312 Operations Research 3 hrs
ESI 4523C Systems Simulation 3 hrs

5. Approved Technical Electives (3 hrs)
Technical electives are available in the BSIE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. Departmental Graduation Requirements (6 hrs)
- EIN 4516C Systems Analysis & Design 3 hrs
- EIN 4891C IE Senior Design Project 3 hrs
- Take the Fundamentals Exam during the Senior year.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None.

8. University Minimum Graduation Requirements
- A 2.0 UCF GPA.

- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Tentative Course Schedule for Entering Freshmen

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th>Fall</th>
<th>12 hrs</th>
<th>Spring</th>
<th>12 hrs</th>
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</thead>
<tbody>
<tr>
<td>*CHS 1440 Fund of ChmEngns</td>
<td>4</td>
<td>*ENC 1102 English Comp II</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*ENC 1101 English Comp I</td>
<td>3</td>
<td>*MAC 2312 Calc with Analytic Geo III</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>*MAC 2311 Calc with Analytic Geo I</td>
<td>4</td>
<td>*EIN 1006C Intro to Eng</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>*PHY 2048L Phys Engr/Sci I</td>
<td>4</td>
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<table>
<thead>
<tr>
<th>Summer</th>
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<tbody>
<tr>
<td>EIN 3211 Eng Anal-Comp</td>
<td>3</td>
</tr>
<tr>
<td>*SPC 1016 Tech Presentations</td>
<td>3</td>
</tr>
<tr>
<td>*ECO 2013 Macroeconomics or ECO 2023 Microeconomics</td>
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<table>
<thead>
<tr>
<th>SECOND YEAR</th>
<th>Fall</th>
<th>13 hrs</th>
<th>Spring</th>
<th>12 hrs</th>
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</thead>
<tbody>
<tr>
<td>*EIN 4516C Sys Anal &amp; Dsgn</td>
<td>3</td>
<td>*EIN 4243C Human Engr</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*EIN 4628C IE Applications of Computers</td>
<td>3</td>
<td>*MAP 2302 Diff Equations</td>
<td>3</td>
<td></td>
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<tr>
<td>EIN 3000 Intro to IE &amp; Mgt Sys</td>
<td>2</td>
<td>STA 3032 Prob &amp; Stats Engrs</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>*MAC 2311 Calc with Analytic Geo III</td>
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<table>
<thead>
<tr>
<th>Summer</th>
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<tbody>
<tr>
<td>EIN 3365 Strctr &amp; Prop Mats</td>
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</tr>
<tr>
<td>EIN 3613 Engng Econ Anal</td>
<td>2</td>
</tr>
<tr>
<td>*Social Foundations II</td>
<td>3</td>
</tr>
<tr>
<td>*EGN 1111C Cmptr Graphics</td>
<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>THIRD YEAR</th>
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<tbody>
<tr>
<td>EIN 3343C Work &amp; Dsgn</td>
<td>3</td>
<td>EIN 4364C Indus Indus Prac</td>
<td>3</td>
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<tr>
<td>EIN 4391C Mfg. Engr.</td>
<td>3</td>
<td>ESI 4221 Empirical Mtds - IE</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EIN 3254 Princ of Cost Engrng</td>
<td>3</td>
<td>ESI 4523C Systems Simulation</td>
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<tr>
<td>ESI 4312 Operations Research</td>
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<td>EIN 4243C Human Engng</td>
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<td>ESI 4523C Systems Simulation</td>
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<table>
<thead>
<tr>
<th>Summer</th>
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</tr>
</thead>
<tbody>
<tr>
<td>EIN 4624 Engineering Admin</td>
<td>3</td>
</tr>
<tr>
<td>EIN 3388 Therm-Flds-Heat Trns</td>
<td>3</td>
</tr>
<tr>
<td>or EIN 3343 Thermodynamics</td>
<td>3</td>
</tr>
<tr>
<td>*Historical Foundations</td>
<td>3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FOURTH YEAR</th>
<th>Fall</th>
<th>12 hrs</th>
<th>Spring</th>
<th>12 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>EIN 4628C IE Computer Appl</td>
<td>3</td>
<td>EIN 4891C IE Sr. Design Proj</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>EIN 4516C Tech Proj</td>
<td>3</td>
<td>Technical Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ESI 4234 Quality Engineering</td>
<td>3</td>
<td>*Cultural Foundation</td>
<td>3</td>
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<tr>
<td>*Historical Foundation</td>
<td>3</td>
<td>*Science Foundation</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

Notes:
- Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
UFC Degree Programs

2. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

Accelerated BS/MS Degree Program
The Industrial Engineering & Management Systems Department offers the Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)
College of Engineering and Computer Science
Engineering Technology (ENT) Department
ENGR 207
Coordinator: Bahman Motlagh
407-823-4748 Fax: 407-823-4746
http://www.ent.ucf.edu

Admission Requirements
Students should complete 33 credit hours of lower level technical courses at a community college. Technical courses will be accepted in the following areas: networking, programming, information technology, computer science, and computer engineering and technology or closely related disciplines.

Degree Requirements
- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program
   (36 hrs)
   A. Communication Foundations
      (nine hours completed in AS degree program)
      1. ENC 1101 & ENC 1102
      2. Prefer SPC 1016
   B. Cultural and Historical Foundations
      (3 hrs taken in AS degree program)
      1. Select MAC 1105
      2. Select STA 2023
      (completed in AS degree program)
   C. Mathematical Foundations
      6 hrs
      1. Select MAC 1105
   D. Social Foundations
      6 hrs
   E. Science Foundations
      6 hrs

2. Lower Level Required Courses Taken at Community College
   (33 hrs)
   3. Prerequisite Courses
      (14 hrs)
      (C or better grade required in all courses)
      MAC 1105 College Algebra and
      MAC 1114 College Trigonometry or
      MAC 2147 Mathematics for Calculus
      5 hrs
      EET 3085C Electricity & Electronics
      4 hrs
      CET 3323C Digital Technology
      4 hrs
      CET 2364 Systems Applications in C
      3 hrs

4. Required Technical Courses
   (27 hrs)
   (C or better grade required in all courses)
   CET 3529 Linux/Unix Sys Admin
   3 hrs
   CET 3010 Intro to Info Technology
   3 hrs
   CET 4427 Applied Database I
   3 hrs
   CET 3383 Applied Systems Analysis I
   3 hrs
   CET 4505 Applied Operating Systems I
   3 hrs
   CET 3752 Intro to Telephony
   3 hrs
   CET 4483 Intro to Local Area Network
   3 hrs
   CET 4333 Computer Organization & Design
   3 hrs
   CET 4748 Wide Area Networks I
   3 hrs

5. IST Support Courses
   (6 hrs)
   ENC 3241 Writing For Technical Professional
   3 hrs
   ETI 4448 Applied Proj Mgmt
   3 hrs
   STA 2023 Statistical Methods
   GEP

6. Technical Electives
   (12 hrs)
   (C or better grade required in all courses)
   Choose four from the following
   CET 3198C Digital Systems
   3 hrs

7. Departmental Exit Requirements
   none

8. Foreign Language Requirements
   (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

9. Approved Technical Electives
   Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

10. University Minimum Graduation Requirements
    A 2.0 UCF GPA
    60 semester hours earned after any CLEP award
    48 semester hours of upper division credit completed
    30 of the last 36 hours of course work must be completed in residency at UCF
    25% of course work must be completed in residency at UCF
    A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
    Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hrs

Related Programs: none
Related Minors: Secure Computing and Networks

Transfer Notes:
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

Tentative Course Schedule for Transferring Students
The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year
Fall
14 hrs
ETE 3085C Elect & Electronics
4 hrs
Tech Elective
3 hrs
CET 3010 Intro to Info Tech
3 hrs
CET 3529 Linux/Unix Sys Admin
3 hrs
CET 2364 Systems Apps in C
3 hrs
MAC 1114 College Trigonometry
3 hrs

Spring
12 hrs

184 UNIVERSITY OF CENTRAL FLORIDA 2006-2007 Undergraduate Catalog
INFORMATION SYSTEMS TECHNOLOGY (B.S.)

AS to BS Track

Note: For detailed information about this program, see description in the AS to BS Program section.

INFORMATION TECHNOLOGY (B.S.)

College of Engineering and Computer Science
School of Electrical Engineering & Computer Science
Harris Corp Engineering Ctr, Rm 245
E-mail: it@cs.ucf.edu
http://www.cs.ucf.edu/
S. Lang 407-823-2341

Degree Requirements
- Students must earn at least a “C” (2.0) in each course in 2-5.
- Students should consult with a departmental advisor.
- A Residency Requirement consists of at least 24 semester hours of regular courses taken from the School of Computer Science at UCF.
- 12 of the 24 Residency hours must be at the 4000-5000 level.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
      1. ENC 1101 & ENC 1102 3
      2. Prefer SPC 1016 3
   B. Cultural and Historical Foundations 9 hrs
      1. Select MAC 1105 3
      2. Select STA 2023 3
   C. Mathematical Foundations 6 hrs
      1. Select STA 2023 3
   D. Social Foundations 6 hrs
      1. Select ENL 1001 3
   E. Science Foundations 6 hrs
      1. Select ENL 1001 3

2. Common Program Prerequisites (3 hrs)
   MAC 2147 Math for Calculus GEP
   STA 2033 Statistical Methods I GEP
   ECO 2013 Macroeconomics GEP
   PSY 2012 General Psychology GEP
   PHY 2053C College Physics I GEP
   PHI 3626 Ethics in Science and Technology 3 hrs

3. Core Requirements (43 hrs)
   COP 3223 C Programming Language 3 hrs
   COP 3502C Computer Science I 3 hrs
   COP 3503C Computer Science II 4 hrs
   COP 3330 Object Oriented Programming 3 hrs
   MAD 2104 Foundations of Discrete Mathematics 3 hrs
   EEL 3041 Circuit Analysis 3 hrs
   EEL 3520 Information Theory 3 hrs
   CGS 2389 Computer Architecture Concepts 3 hrs
   CGS 2548C Database Concepts 3 hrs
   EEL 4882 Eng. Sys. SW (Operating Systems) 3 hrs
   COP 4610L OS Laboratory 3 hrs
   COP 3285 Computer Network Concepts 3 hrs
   or CET 4483 Intro to Local Area Network Tech. 3 hrs
   CDA 4506C Network Laboratory 3 hrs
   COP 4910 Frontiers of Information Technology 3 hrs

A minimum grade of “C” (2.0) must be made on each of the required courses. A three credit internship approved by the Information Technology Program Coordinator can substitute for the Frontiers in Information Technology (COP 4910) requirement.

4. Support Courses (6 hrs)
   ENC 3241 Technical Report Writing 3 hrs
   CRW 3930 Creative Writing (section for IT majors) 3 hrs

5. Restricted Electives (15 hrs)
   15 hours of upper division courses taken outside of the information technology core requirements. At least nine of these hours must be at or above the 4000 level. The remaining six are at the 3000 level or above. These courses are in areas of the student’s choosing. The only restriction is on the level of the courses, not the departments from which they come. However, students are strongly advised to make this a cohesive set of courses. Many departments have plans whereby seniors can achieve a certification at 15 credits, and a minor at 18. No co-operative education or internship hours are allowed.

6. School Exit Requirements
   - Complete an exit interview with an assigned faculty advisor
   - Computer competency met by completion of major

7. Free Electives (14 hrs)

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after any CLEP award
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF

   Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Computer Science, Computer Engineering, Management Information Systems
Related Minors and Certificates: Information Technology, Computer Science, Secure Computing and Networks

Transfer Notes:
- Grades below “C” (2.0) are not accepted
- Courses at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. UCF General Education Program</td>
<td>(36 hrs)</td>
<td></td>
</tr>
<tr>
<td>A. Communication Foundations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select ENC 1101 &amp; ENC 1102</td>
<td>6 hrs</td>
<td></td>
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<tr>
<td>Select SPC 1600</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
<td></td>
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<tr>
<td>C. Mathematical Foundations</td>
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<tr>
<td>Prefer MGF 1106 (may substitute a higher level math)</td>
<td>3 hrs</td>
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<tr>
<td>Select STA 1060C or STA 2014C</td>
<td>3 hrs</td>
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<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
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<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
<td></td>
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<tr>
<td>2. Common Program Prerequisites</td>
<td>(0 hrs)</td>
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<tr>
<td>SPC 1016 Fund of Technical Presentations</td>
<td></td>
<td>GEP</td>
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<tr>
<td>3. Core Requirements</td>
<td>(15 hrs)</td>
<td></td>
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<tr>
<td>a. Select one course</td>
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<tr>
<td>STA 1060C Basic Statistics Using Excel</td>
<td></td>
<td>GEP</td>
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<tr>
<td>STA 2014C Principles of Statistics</td>
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<tr>
<td>b. Complete the following</td>
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<tr>
<td>COM 301C Communication &amp; Human Relations</td>
<td>3 hrs</td>
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<tr>
<td>COM 3120 Organizational Communication</td>
<td>3 hrs</td>
<td></td>
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<tr>
<td>COM 3311 Communication Research Methods</td>
<td>3 hrs</td>
<td></td>
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<tr>
<td>SPC 3301 Interpersonal Communication</td>
<td>3 hrs</td>
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<tr>
<td>c. Select one course</td>
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<tr>
<td>PUR 4110C Public Relations Publications</td>
<td>3 hrs</td>
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<tr>
<td>CGS 2100CC Computer Fundamentals for Business</td>
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<tr>
<td>CGS 2585C Desktop/Internet Publishing (PR: CGS 1060C)</td>
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<tr>
<td>CGS 3175 Internet Applications (PR: CGS 1060C)</td>
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<tr>
<td>4. Restricted Electives</td>
<td>(21 hrs)</td>
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<tr>
<td>Select from the following list</td>
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<tr>
<td>COM 3013 Communication and the Family</td>
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<tr>
<td>COM 3110 Business and Professional Communication</td>
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<tr>
<td>COM 4014 Gender Issues in Communication</td>
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<tr>
<td>COM 4461 Intercultural Communication</td>
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<tr>
<td>COM 4462 Conflict Management</td>
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<tr>
<td>SPC 3513 Argumentation and Debate</td>
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<td>SPC 4331 Nonverbal Communication</td>
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<tr>
<td>SPC 4425 Group Dynamics</td>
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<tr>
<td>SPC 4540 Attitudes and Communication</td>
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<tr>
<td>A maximum of 6 credits of any combination of the following can be used</td>
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<tr>
<td>COM 4941 Internship</td>
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<tr>
<td>COM X949 Coop</td>
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<tr>
<td>SPC X949 Coop</td>
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<tr>
<td>COM 4906 Directed Independent Study</td>
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<tr>
<td>ENC 3250 Professional Writing</td>
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<tr>
<td>ENC 3311 Adv Expository Writing</td>
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<tr>
<td>ENC 3241 Writing for the Tech Professional</td>
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<tr>
<td>5. External Restricted Electives</td>
<td>(6 hrs)</td>
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<tr>
<td>A minimum of six upper division credit hours selected from courses in Anthropology, Business, Criminal Justice, Legal Studies, Political Science, Psychology, Public Administration, and Sociology.</td>
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<tr>
<td>6. School Exit Requirements</td>
<td></td>
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<tr>
<td>Achieve a “C” (2.0) or better average GPA in Nicholson School courses</td>
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<tr>
<td>To avoid graduation delays, meet with your advisor to review graduation requirements before registering for your last term</td>
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</tr>
<tr>
<td>Computer Competency met by achieving a “C” (2.0) or better in PUR 4110C, CGS 21000C, CGS 2585C, CGS 3175, or by departmental assessment</td>
<td></td>
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<tr>
<td>7. Foreign Language Requirements</td>
<td>(0-8 hrs)</td>
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<tr>
<td>Admission: Met by graduation requirement</td>
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<tr>
<td>Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.</td>
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<tr>
<td>8. Electives</td>
<td>(variable)</td>
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<tr>
<td>Select primarily from upper level courses. May be taken outside of the School of Communication.</td>
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<tr>
<td>9. University Minimum Exit Requirements</td>
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<tr>
<td>A. 2.0 UCF GPA</td>
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<tr>
<td>B. 60 semester hours earned after CLEP awarded</td>
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<tr>
<td>C. 48 semester hours of upper division credit completed</td>
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<tr>
<td>D. 30 of the last 36 hours of course work must be completed in residency at UCF</td>
<td></td>
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<tr>
<td>E. A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted</td>
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<tr>
<td>F. Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)</td>
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<tr>
<td>Total Semester Hours Required</td>
<td>120 hrs</td>
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<tr>
<td>Related Minors: Mass Communication, Interpersonal Communication, Organizational Communication.</td>
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<tr>
<td>Transfer Notes:</td>
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<tr>
<td>Courses taken at community colleges do not substitute for Upper Division courses.</td>
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<tr>
<td>Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.</td>
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<tr>
<td>Suggested Plan of Study:</td>
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<tr>
<td>One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.</td>
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<tr>
<td>Freshman Year</td>
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<tr>
<td>Fall</td>
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<tr>
<td>ENC 1101 Composition I</td>
<td>3</td>
<td>ENC 1102 Composition II</td>
</tr>
<tr>
<td>MGF 1106* req# 1C1-GEP</td>
<td>3</td>
<td>EHU 2000* req# 1B1-GEP</td>
</tr>
<tr>
<td>Elective* Check restrictions</td>
<td>4</td>
<td>STA 2014C Prin of Statistics</td>
</tr>
<tr>
<td>SPN 1120* req# Lang/Elec</td>
<td>4</td>
<td>Elective* Check restrictions</td>
</tr>
<tr>
<td>Spring</td>
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<tr>
<td>ENC 1101 Composition I</td>
<td>3</td>
<td>ENC 1102 Composition II</td>
</tr>
<tr>
<td>MGF 1106* req# 1C1-GEP</td>
<td>3</td>
<td>EHU 2000* req# 1B1-GEP</td>
</tr>
<tr>
<td>Elective* Check restrictions</td>
<td>4</td>
<td>STA 2014C Prin of Statistics</td>
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<tr>
<td>SPN 1120* req# Lang/Elec</td>
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<td>Elective* Check restrictions</td>
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<tr>
<td>Sophomore Year</td>
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<tr>
<td>Fall</td>
<td></td>
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<tr>
<td>ANT 2005* req# 1B2-GEP</td>
<td>3</td>
<td>ARH 2005* req# 1B3-GEP</td>
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<tr>
<td>BSC 1005* req# 1E2-GEP</td>
<td>3</td>
<td>POS 2041* req# 1D1-GEP</td>
</tr>
<tr>
<td>MUL 2010* req# 1-GEP</td>
<td>3</td>
<td>PSC 1121* req# 1E1-GEP</td>
</tr>
<tr>
<td>SPC 1600 Fund of Oral Com</td>
<td>3</td>
<td>Elective* Check restrictions</td>
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<tr>
<td>Elective* Check restrictions</td>
<td>3</td>
<td>Elective* Check restrictions</td>
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<tr>
<td>Junior Year</td>
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<td>Fall</td>
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<tr>
<td>COM 3013 Com Reltn</td>
<td>3</td>
<td>COM 3013* req# 4-ResElec</td>
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<tr>
<td>COM 3311 Com Res Methods</td>
<td>3</td>
<td>COM 3110* req# 4-ResElec</td>
</tr>
<tr>
<td>PUR 4110C req# 3-Core</td>
<td>3</td>
<td>COM 4014* req# 4-ResElec</td>
</tr>
<tr>
<td>ENC 3250* req# 4-ResElec</td>
<td>3</td>
<td>Elective* Check restrictions</td>
</tr>
<tr>
<td>ENC 3241 Writing for the Tech Professional</td>
<td>3</td>
<td>Elective* Check restrictions</td>
</tr>
<tr>
<td>Summer</td>
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<tr>
<td>ENC 1101 Composition I</td>
<td>3</td>
<td>ENC 1102 Composition II</td>
</tr>
<tr>
<td>MGF 1106* req# 1C1-GEP</td>
<td>3</td>
<td>EHU 2000* req# 1B1-GEP</td>
</tr>
<tr>
<td>Elective* Check restrictions</td>
<td>4</td>
<td>STA 2014C Prin of Statistics</td>
</tr>
<tr>
<td>SPN 1120* req# Lang/Elec</td>
<td>4</td>
<td>Elective* Check restrictions</td>
</tr>
<tr>
<td>5. External Restricted Electives</td>
<td>(6 hrs)</td>
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</tbody>
</table>
JOURNALISM (B.A.)
College of Sciences
Nicholson School of Communication,
COM 244, 407-823-2839,
http://www.cas.ucf.edu/communication
E-mail: journalism@ucf.edu
Contact: Fred Fedler

Limited Access program

Admission Requirements
- Students should apply to become Journalism majors only after completing all requirements for admission. Deadlines are: October 1 to be admitted the next Spring term; February 1 to be admitted the next Summer term; July 1 to be admitted the next Fall term.
- Admission is based on multiple factors, not strictly GPA.
- Attain an overall minimum 2.25 GPA based on a minimum of 30 credit hours of college work. NOTE: Meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis.
- Meet a grammar proficiency standard. Students with an "A" in both ENC 1101 and ENC 1102 have satisfied the requirement. All others must pass a grammar proficiency exam administered by UCF’s Counseling and Testing Center.
- Have acceptable keyboard skills.
- Submit a letter demonstrating commitment to the field.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- The Journalism faculty strongly recommends that majors work for a student newspaper.
- Journalism majors may obtain an off-campus internship with a commercial weekly or daily newspaper or with a magazine.
- To receive credit for an internship, students must have a 2.5 GPA in their required major courses. Students with less than a 2.5 GPA will not be given academic internship credit.
- Students can enroll in a maximum of three 2-credit internships. However, the internships must be with different employers. Each internship must be approved by and supervised by a Journalism faculty advisor.
- Students cannot exceed a total of seven credits of internship, Co-op, and practicum credits combined.
- A portfolio of representative work must be submitted to, and approved by, a faculty committee at least one semester before graduation. At least 75% of the work must be produced while at UCF.
- Co-op or internship credit cannot be used in this major without prior approval.
- Students should consult with a school advisor.
- School Residency Requirement consists of at least 24 semester hours including JOU 2100C and regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication.
- All students are required to pay a fee for equipment insurance.
- Of the 120 hours required for graduation, 80 hours must be taken outside of the Nicholson School of Communication.
- Of these 80 hours, 65 must be taken in the liberal arts (i.e. within the College of Arts & Humanities or the College of Sciences).
- To ensure completion within 120 hours and to comply with the 80 hour rule, no more than 40 of the 120 hours may be taken within the Nicholson School of Communication.
- Journalism majors must select their required minor from outside the School of Communication to remain below the 40 credit hour school maximum.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      Select ENC 1101 & ENC 1102 6 hrs
      Select one course from the following: SPSC 1600 or SPSC 1016 3 hrs
   B. Cultural and Historical Foundations
      9 hrs
   C. Mathematical Foundations
      3 hrs
   D. Social Foundations
      6 hrs
   E. Science Foundations
      6 hrs

2. Common Program Prerequisites: (0 hrs)
   Select one course
   - SPC 1016 Fund of Technical Presentations
   - SPC 1600 Fund Oral Communication

3. Common Core requirements (15 hrs)
   - JOU 2100C† News Reporting 3 hrs
   - JOU 3201* Editing I 3 hrs
   - MMC 4200 Mass Communication Law 3 hrs
   - JOU 4XXX Journalism Ethics 3 hrs
   - JOU 4324C Converged Journalism 3 hrs
   † Must earn at least a "C" (2.0) to enroll in subsequent courses

4. Specialization: Select one area (17-18 hrs)
   4.1 Newswriting (17-18 hrs)
   a. Required courses
      - JOU 3XXXC† Metro Reporting 3 hrs
      - JOU 3101 Advanced Reporting 3 hrs
      - JOU 4181 Public Affairs Reporting 3 hrs
      † Must earn at least a "C" (2.0) to enroll in subsequent courses
   b. Directed Electives (Select from the following) 8-9 hrs
      - MMC 2004 Mass Media
      - JOU 3004 History of American Journalism
      - PGY 3610C Photojournalism I
      - JOU 3202 Editing II
      - JOU 3331C Sports Reporting
      - JOU 4224 Magazine Editing and Production
      - JOU 4300 Feature Writing
      - Any other JOU prefix writing elective, or one 2 credit JOU internship

4.2 Visual Communication (17-18 hrs)
   a. Required courses
      - VIC 3001 Visual Communication 3 hrs
      - JOU 4223C Page Design 3 hrs
      - JOU 4211C Informational Graphics 3 hrs
      - PGY 3610C Photojournalism I 3 hrs
   b. Directed Electives (5-6 hrs)
      - Select two courses from the following
      - MMC 2004 Mass Media
      - JOU 3004 History of American Journalism
      - JOU 4340C On-line Journalism
      - PGY 3620C Photojournalism II
      - PGY 3630 Photojournalism III
      - CGS 2585C Desktop/Internet Publishing
      - JOU 3930 or JOU 4941 Internship (2 credits maximum)

4.3 Editing (17-18 hrs)
   a. Required courses
      - JOU 3202 Editing II 3 hrs
      - JOU 4223C Page Design 3 hrs
      - JOU 4211 Advanced Reporting 3 hrs
      - JOU 4211C Informational Graphics 3 hrs
   b. Directed Electives (5-6 hrs)
      - Select from the following
      - MMC 2004 Mass Media
      - PGY 3610C Photojournalism I
      - JOU 3004 History of American Journalism
      - JOU 4224 Magazine Editing and Production
      - VIC 3001 Visual Communication
      - Any other JOU prefix writing elective, or one 2 credit JOU internship

Minor: (18 hrs min)
   Journalism majors must complete an 18 hour minor in an academic area outside of the School of Communication. When no official minor is offered, students may complete an 18-credit-hour area concentration approved by the Faculty.

6. School Exit Requirements
   - Acceptance of portfolio by faculty
   - To avoid delaying graduation, you must request a review of
7. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)
Select primarily from upper level courses, with school advisor’s approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP credit by exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours
Related Programs: Technical Writing, Creative Writing
Related Minors: Creative Writing, History, Literature, Linguistics, Magazine Journalism (not available to Journalism majors), Political Science, Sociology, Technical Writing, Writing
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

LEGAL STUDIES (B.A., B.S.)
College of Health and Public Affairs
HPA1 311, 407-823-2603
http://www.cooha.ucf.edu/crim.jus/
Undergraduate Program Director and Pre-Law Advisor: David Slaughter
E-mail: dslaught@mail.ucf.edu

Admission Requirements
- None

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a departmental advisor
- The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- 33 hours of PLA coursework must be taken at UCF
- 2.0 in all PLA work at UCF and overall

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
   1. ENC 1101 & ENC 1102
   2. Prefer SPC 1600
B. Cultural Historical Foundations 9 hrs
   1. Prefer SPC 1500
C. Mathematical Foundations 6 hrs
   1. Prefer SPC 1500
D. Social Foundations 6 hrs
   1. Prefer SPC 1500
E. Science Foundations 6 hrs

2. Common Program Prerequisites
   - None

3. Core Requirements (21 hrs)
   - PLA 3013 Law and the Legal System 3 hrs
   - PLA 3104 Legal Research* 3 hrs

4. Upper Division Restricted Electives (21 hrs)
21 additional hours of Legal Studies coursework selected in consultation with an advisor

5. Supporting Courses (9-15 hrs)
Students pursuing the B.A. degree must complete nine semester hours of supporting courses chosen with the approval of the student’s advisor. Students pursuing the B.S. degree must complete 15 hours of supporting courses chosen with the approval of the student’s advisor.

6. Specializations
Students may earn a specialization within the general program of study. The specializations do not substitute for the general legal studies degree requirements; they are earned within the general program by selecting particular courses to satisfy the legal studies restricted electives and supporting courses requirements. Students are not required to declare a specialization. The following specializations are offered:
- Law and Society
- Litigation and Advocacy
- Public Law
- Sports and Entertainment Law
- Criminal Law and Individual Liberties
- Estates and Property Law
- Comparative and International Law
- Commercial and Transactional Law

A student may earn a maximum of two specializations. Specific course requirements are available at the department office or from the student’s advisor.

7. Departmental Exit Requirements (120 hrs)
Students must take a minimum of 33 hours of PLA courses at UCF. The total semester hours required is 120.

8. Electives (variable)
The following electives must be completed with a minimum grade of “C” (2.0): PLA 4020, PLA 4240, PLA 4910

9. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at college level.

10. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, credit by exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours
Related Programs: Business Administration, Criminal Justice, History, Political Science, Public Administration, Sociology
Related Minors: Business Administration, Criminal Justice, Political Science, Public Administration, Sociology

Transfer Note:
Courses taken at community colleges do not substitute for Upper Division courses.
Minor
The Legal Studies Minor consists of 21 or more semester hours. Required courses: PLA 3013 plus a minimum of 15 semester hours of legal studies courses and three semester hours of law-related courses selected with the aid of an advisor.

Tentative Course Schedule for Entering Freshmen

<table>
<thead>
<tr>
<th>Freshman Year*</th>
<th>14 hrs</th>
<th>Spring</th>
<th>15/16 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td></td>
<td>ENC 1102</td>
<td>ENC 1102</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td></td>
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<td>ENC 1101</td>
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<td>PSY 2012</td>
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<td>PSY 2000</td>
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<tr>
<td>MGF 1106</td>
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<td>BSC 1005</td>
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<tr>
<td>or MCB 1310</td>
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<td>For. Lang.</td>
<td>For. Lang.</td>
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<tr>
<td></td>
<td>3</td>
<td>or B.S. option</td>
<td>or B.S. option</td>
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<tr>
<td>PAF 2102</td>
<td>2</td>
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Sophomore Year

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<th>15/16 hrs</th>
<th>Spring</th>
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<tr>
<td>ANT 2511 or GLY 1030</td>
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<td>PSC 1221 or CHM 1020</td>
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<td>or GEO 1200</td>
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<td>PLA 3013</td>
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<tr>
<td>or CEE 1200</td>
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<td>One Course: ARH 2050</td>
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<tr>
<td>or EUH 2000 or HUM 2210</td>
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<td>ARH 2051, MUL 2010, THE 1020, REL 2300, PHI 2010, LIT 2110, LIT 2120</td>
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<tr>
<td>or AMH 2100</td>
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<td>PLA Elective</td>
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<tr>
<td>or AMH 2020</td>
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<td>One Course: EUH 2001 or HUM 2230</td>
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</tr>
<tr>
<td>Foreign Language</td>
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<td>or PLA Elective</td>
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</tr>
<tr>
<td>or English Language option</td>
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<td>or EUH 2001 or HUM 2230</td>
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Junior Year

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<td>PLA 3104</td>
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<td>PLA 3155</td>
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<tr>
<td>PLA 3201</td>
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<td>PLA 3610</td>
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<tr>
<td>PLA Elective</td>
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<td>PLA Elective</td>
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<tr>
<td>or PLA Elective</td>
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<td>Supporting Elective</td>
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<tr>
<td>Elective</td>
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Senior Year

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<th>Fall</th>
<th>15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
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<tr>
<td>PLA 4700</td>
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<td>PLA 4935</td>
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<td>Internship or PLA Elective</td>
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<td>Internship or PLA Elective</td>
<td>3</td>
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<tr>
<td>Supporting Elective</td>
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<td>Supporting Elective</td>
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</tr>
<tr>
<td>Elective/Minor</td>
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<td></td>
<td>3</td>
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</tbody>
</table>

LIBERAL STUDIES (B.A., B.S.)
Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies
CL-I, Room 302; http://liberalstudies.info
E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

Liberal Studies is a university-wide program leading to either the Bachelor of Arts or the Bachelor of Science in Liberal Studies, depending on the majority of course areas selected in consultation with a Liberal Studies advisor.

The program is administered through the Office of Liberal Studies in the Office of Undergraduate Studies and is designed for academic flexibility. It recognizes that there are many combinations of courses which meet the needs of individual students.

This program may be completed online with limited area, course, and minor selection done with advisement from a member of the Liberal Studies Advising Team. Students may not be able to complete all courses online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via online courses. For more information, see http://online.ucf.edu/.

Admission Requirements

- Degree Requirements
  - Students who change degree programs and select this major must adopt the most current catalog
  - Students must have declared a Liberal Studies major at least one semester before graduation
  - Co-op credit cannot be used in this major
  - Independent study forms must be approved by the director prior to taking an independent study or internship for use in the Liberal Studies areas. Non-approved independent studies or internships will not be counted towards the major

Students must earn at least a “C” (2.0) in each restricted elective course

Students must consult with a Liberal Studies advisor to enter the program

Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

No courses can count in more than one subject area or in a subject area and a minor

1. UCF General Education Program (36 hrs)
   - Communication Foundations: 9 hrs
   - Cultural and Historical Foundations: 9 hrs
   - Mathematical Foundations: 6 hrs
   - Select MGF 1106 Finite Mathematics (may substitute a higher level math): 3 hrs
   - STA 1060C Statistics Using Excel or STA 2014C Principles of Statistics (may substitute a higher level computer science or statistics course): 3 hrs
   - Social Foundations: 6 hrs
   - Science Foundations: 6 hrs

2. Common Program Prerequisites: none

3. Restricted Electives (36 hrs)
   - Students must complete two different subject area concentrations from among those specified below
   - Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses). Courses are considered approved only when they have been reviewed by a Liberal Studies advisor and not simply when they appear on a student audit.
   - Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined
   - See the Liberal Studies Advising Team for details regarding each area:
     - Arts
     - Behavioral and Social Sciences
     - Commerce
     - Communication
     - Computer Science
     - Education
     - Engineering
     - Health and Biomedical Sciences
     - Humanities
     - Letters and Modern Languages
     - Natural Sciences
     - Public Affairs

4. Required Minor (18 hrs minimum)
   - Students must complete a minor from those offered at UCF. The minor cannot overlap with the two subject areas. Minimum hours for a minor is eighteen. The minor degree audit must be approved by, and completion of the minor certified by, the department offering the minor.
   - Program Exit Requirements
     - A grade of “C” or above (2.0) is required for each course taken in each of the subject areas.
     - Computer Competency met by CGS 1060C, STA 1060C, or other computer-related courses, or departmental assessment.

5. Foreign Language Requirements (0-8 hrs)

   - Admission-BA: Met by graduation requirement
   - Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

   Graduation: -BA: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

   Graduation: -BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the require-
7. Electives  (variable)
Select primarily from upper level courses, with Liberal Studies advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required  120 hrs
Related Programs: Computer Information Technology Track, Liberal Arts Track, Environmental Studies Track, Women's Studies Track
Related Minors: Most UCF minors

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES - COMPUTER INFORMATION TECHNOLOGY TRACK (B.S.)

Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies
CL-I, Room 302; http://liberalstudies.info
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

College of Engineering and Computer Science
School of Electrical Engineering and Computer Science, CSB 201
E-mail: computersonce@ucf.edu
Mark Llewellyn, 407-823-2341

There are numerous opportunities in industry for qualified people to work in the broad area of Information Technology (IT). Computer Science represents only a part of this IT umbrella. Students can go beyond a narrower technical focus to include system, network, and database administration; business principles and behavior; social science behavior and theories; and other areas.

This LS-CIT track fills the gap between the fully accredited degree program in Computer Science which emphasizes the scientific aspects of computing, and the needs of the IT industry for people with skills in broader areas of information technology. By completing this track within Liberal Studies, students can accentuate those areas of computer information and application, while de-emphasizing the mathematical and physical science components of Computer Science.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the Office of Undergraduate Studies and is designed for academic flexibility. It recognizes that many combinations of courses meet the needs of individual students.

Admission Requirements  none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major

Activities of courses meet the needs of individual students.

The program is designed for academic flexibility. It recognizes that many combinations of courses meet the needs of individual students.

Students must have declared a Liberal Studies major at least one semester before graduation.

Co-op or internship credit cannot be used in this major.

Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree.
LIBERAL STUDIES – ENVIRONMENTAL STUDIES TRACK (B.S.)

Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies
CL-I, Room 302; http://liberalstudies.info
E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

Admission Requirements: none

Degree Requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared a Liberal Studies major at least one semester before graduation.
- Internship credit cannot be used in this major without prior written permission of a Liberal Studies advisor.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas.
- Non-approved independent studies will not be counted towards the major.
- Co-op credit cannot be used in this major.
- Students must earn at least a "C" (2.0) in each required course in the core and subject areas.
- Students should consult with a Liberal Studies advisor when entering the program.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are completely in the first 60 hours.
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree.

1. UCF General Education Program (36 + 2 hrs)

A. Communication Foundations
   - Select MAC 1105 or higher
   - Select STA 2033

B. Cultural and Historical Foundations
   - Select ECO 2003 or ECO 2023
   - Select SYG 2000

C. Mathematical Foundations
   - Select MAC 1105 or higher
   - Select STA 2023

D. Social Foundations
   - Select ECO 2013 or ECO 2023
   - Select SYG 2000

E. Science Foundations
   - Select BSC 2010C
   - Select CHM 2045C

2. Common Program Prerequisites: none

3. Core for Environmental Studies (11 hrs)

A. Physical/Mathematical Sciences
   - CHM 2045C Chemistry Fundamentals I
   - MAC 1105 College Algebra or higher
   - PSC 1121 Physical Science I
   - STA 2023 Statistical Methods I

B. Life Sciences
   - BSC 2010C Biology I
   - BSC 2011C Biology II
   - PCB 3044 /3044L Principles of Ecology & Lab

C. Social Science & Humanities
   - ECO 2013 Principles of Macroeconomics

4. Subject Area: Environmental Studies Fundamentals (19 hrs)

IDS 3150 Foundations of Environmental Studies 3 hrs
ECF 3303 Economics and the Environment 3 hrs
GEO 3043C GIS for Environmental Studies 3 hrs
4301C Advanced GIS Applications for Environ. Studies 4 hrs
PUP 3203 Environmental Politics 3 hrs
SYD 4510 Environmental Sociology 3 hrs

5. Subject Areas: Restricted Electives (18 hrs)

Students will complete one of the concentrations listed below. Each concentration requires a minimum of eighteen credit hours. A student completing the Environmental Studies core can reasonably expect to meet entry requirements for most electives listed.

Select 18 hours in one concentration

Sciences Concentration

Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.

- BCH 4053 Biochemistry I
- BCH 4054 Biochemistry II
- BOT 3122C Local Flora
- BOT 3800 Ethnobotany
- BOT 4156C Florida Wildflowers
- BOT 4303C Plant Kingdom
- BOT 4685C Conservation and Management of Native Plants
- BOT 4713C Plant Taxonomy
- BSC 4312C Marine Biology
- CHM 31020 Analytical Chemistry
- EES 3004 Environmental Systems
- OCE 3008 Oceanography
- PCB 3063 Genetics
- PCB 3304C River Ecology
- PCB 3314 Fish Physiology
- PCB 3442 Florida Aquatic Ecology
- PCB 4302C Physiological Limnology
- PCB 4303C Biological Limnology
- PCB 4683 Population Biology & Evolution
- PCB 4723 Animal Physiology
- PCB 5045C Conservation Biology
- PCB 5326C Ecosystems of Florida

Values, Planning, & Policy Concentration

Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.

- ANT 3541 Biobehavioral Anthropology
- ECP 4303 Economics of the Environment
- ECP 4603 Urban and Regional Economic Problems
- ENC 3211 Theory and Practice of Technical Writing
- ENC 3241 Writing for the Technical Professional
- ENC 4360 Nature Writing
- GEO 4035C Remote Sensing of Environment
- INR 4051 International Environmental Law
- PDS 3330 Urban and Regional Planning
- PDS 4351 Issues in Environmental Program Management
- PHI 3033 Philosophy, Religion, & the Environment
- PHI 3640 Environmental Ethics
- PHI 4400 Philosophy of Science
- PHI 4633 Ethics and Biological Science
- PHM 4031 Environmental Philosophy
- PLA 4631 Land Use and Environmental Law
- PUP 4204 Sustainability
- PUP 4209 Urban Environmental Policy

6. Program Exit Requirements (0-8 hrs)

- A grade of "C" or above (2.0) is required for each course taken in the subject areas and core
- Computer Competency is met by completing this major

7. Foreign Language Requirements (0-8 hrs)

Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation
Graduation-BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Judaic Studies or Modern Languages and Literatures, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.
8. Electives (variable)
Select primarily from upper level courses, with advisor approval.

9. University Minimum Exit Requirements
- A 2.0 UCF and overall GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Required Hours 120 hours

Related Programs:
- Biology, Chemistry, Environmental Engineering, Political Science, Economics

Related Minors:
- All minors

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES - LIBERAL ARTS TRACK (B.A.)
Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies
CL-I, Room 302; http://liberalstudies.info
E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team. 407-823-0144
The Liberal Arts Track is a Bachelor of Arts degree program available to advanced students seeking an individualized, interdisciplinary, non-traditional major. The degree program is administered by the Office of Liberal and Interdisciplinary Studies within the Office of Undergraduate Studies.

Admission Requirements
- None

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each restricted elective course.
- Co-op or internship credit cannot be used in this major.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted toward the major.
- Students must consult with a Liberal Studies advisor before entering the program.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.
- No courses can count in more than one subject area or in a subject area and a minor.
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
   B. Cultural and Historical Foundations (9 hrs)
   C. Mathematical Foundations (6 hrs)
   Select MGF 1106 Finite Mathematics (may substitute a higher level math)
   Select CGS 1060C Intro to Computer Sci or STA 2014C Principles of Statistics or STA 1060C Statistics Using Excel (may substitute a higher level computer science or statistics course)
   D. Social Foundations (6 hrs)
   E. Science Foundations (6 hrs)

2. Core Requirements None (6 hrs)
- One course determined between the student and Liberal Studies advisors from among courses in ethics, critical thinking, or methodologies.

3. Restricted Electives (36 hrs)
- Select one (either A or B): 18 hrs
  a. Complete a minor from those offered at UCF
  b. Complete an individualized minor approved by the Liberal Studies advisors
- Select one (either C or D): 18 hrs
  c. Complete a second minor from those offered at UCF in the College of Arts and Humanities or College of Sciences
  d. Complete nine hours in each of two concentrations below: 18 hrs
     1. Visual and Performing Arts
     2. Natural and Computational Sciences
     3. Humanities, Letters and Modern Languages
     4. Behavioral, Social Sciences, Communication

4. Program Exit Requirements (3 hrs)
- Select one of these options, any of which must be approved by the Liberal Studies advisors:
  - IDS 4912 Directed Independent Research
  - IDS 4955 Study Abroad
  - IDS 4970 Undergraduate Thesis
- Students must take a minimum of 18 hours of approved restricted elective courses. Courses are considered approved only when they have been reviewed by a Liberal Studies advisor and not simply when they appear on a student audit.
- Students are required to take a minimum of 18 UCF hours, as well as 18 Upper Division hours, in the restricted elective courses.
- Maintain a minimum GPA of 3.0 in all Liberal Arts Track courses.

5. Foreign Language Requirements (0-8 hrs)
- Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

6. Electives (variable)
Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

7. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hrs

Related Programs: Liberal Studies Track, CIT Track, Environmental Studies Track, Women's Studies Track

Related Minors: All College of Arts and Sciences minors

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.
LIBERAL STUDIES - NANOSCIENCE & NANOTECHNOLOGY TRACK (B.S.)
Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies
CL-I, Room 302; http://liberalstudies.info
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144
Liberal Studies Nanoscience & Nanotechnology track is a university-wide program leading to a Bachelor of Science in Liberal Studies.
Nanoscience and Nanotechnology is the study of the structure and behavior of materials at the atomic or molecular level. Through an understanding of how to manipulate atoms and molecules, it is possible to create devices and machines with unique properties and diverse applications.
The program is administered through the Office of Liberal and Interdisciplinary Studies in the Office of Undergraduate Studies and is designed for academic flexibility. It recognizes that there are many combinations of courses that meet the needs of individual students.

Admission Requirements
- none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major
- Students must earn at least a “C” (2.0) in each restricted elective course
- Students should consult with a Liberal Studies advisor when entering the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- No courses can count in more than one subject area or in a subject area and a minor
- Students wishing to earn a Liberal Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations
     - 9 hrs
   - B. Cultural and Historical Foundations
     - 9 hrs
   - C. Mathematical Foundations
     1. Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
     2. Select STA 1060C Statistics Using Excel or STA 2014C Principles of Statistics (may substitute a higher level math)(may substitute a higher level computer science or statistics course) 3 hrs
   - D. Social Foundations
     - 6 hrs
   - E. Science Foundations
     - 6 hrs
     1. Prefer: PHY 2053C College Physics (prerequisites MAC 1105 and MAC 1114) or equivalent
     2. Select one class from the listed choices

2. Common Program Prerequisites
   - none

3. Restrictive Electives (36 hrs)
   - Students must complete both subject area concentrations from among those specified below
   - Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses).
   - Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined
   - See the Liberal Studies Advising Team for details regarding each area

Subject Area #1
Nanoscience and Nanotechnology Area
- EMA 3XXX Nanomaterials Process Engineering
- EMA 3XXX Nanomaterials Characterization & Applied
- PHZ 3422 Nanophysics
- BSC 3424 Nanobiotechnology
- OSE 3490 Nanophotonics
- PHI 4690 Ethics & Societal Implications in Nanotechnology

Subject Area #2 (one of the following areas)
- Computer Science
- Engineering
- Health and Biomedical Sciences
- Natural Sciences

4. Required Minor (18 hrs min)
The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school’s requirements.
Student must complete a minor from those offered below. The minor must not overlap with the area chosen for Subject area #2. (The area designation for each minor is listed in parentheses). The minor degree audit must be approved by, and completion of the minor certified by, the department offering the minor.
- Aerospace Studies (Engineering)
- Computer Science (Computer Science)
- Astronomy (Natural Sciences)
- Biology (Natural Sciences)
- Chemistry (Natural Sciences)
- Cognitive Science (Interdisciplinary)
- Information Technology (Computer Science)
- English-Technical Writing (Letters and Modern Languages)
- Environmental Studies (Interdisciplinary)
- Health Science (Health and Biomedical Sciences)
- Mathematics (Natural Sciences)
- Molecular Biology & Microbiology (Health & Biomedical Sciences)
- Physics (Natural Sciences)
- Psychology (Behavioral and Social Sciences)
- Space Studies (Engineering)
- Statistics (Natural Sciences)

5. Departmental Exit Requirements
- A grade of “C” or above (2.0) is required for each courses taken in each of the subject areas
- Computer Competency met by completion of track area and minor requirements.

6. Foreign Language Requirement (0-8 hrs)
Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation-BS: One semester college language or equivalent proficiency exam, or one course with a multicultural dimension
Note: Students entering without having met the admission requirements must do so in order to graduate

7. Electives (variable)
Select primarily from upper level courses, with a Liberal Studies advisor’s approval.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Computer Information Technology Track, Environmental Studies Track
Related Minors: Aerospace Studies, Applied Computer Science, Astronomy, Biology, Chemistry, Computer Science,
Students who change degree programs and select this major.

Degree Requirements

- Students must complete one subject area from those specified below.
- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses).
- Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined.

First Study Area (or select Women's Studies Cognate Area)

<table>
<thead>
<tr>
<th>Women's Studies Area</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>WST 3460</td>
<td>Womanist Studies</td>
</tr>
<tr>
<td>AML 3614</td>
<td>Topics in African-American Literature</td>
</tr>
<tr>
<td>ANT 4308</td>
<td>Gender Issues in Latin America</td>
</tr>
<tr>
<td>ASH 4304</td>
<td>Women in China</td>
</tr>
<tr>
<td>AML 3682</td>
<td>Ethnic Literature in America</td>
</tr>
<tr>
<td>SYD 3751</td>
<td>North American Indian Women Today</td>
</tr>
</tbody>
</table>

Other courses approved by the Liberal Studies Advising Team.

Second Study Area (or select Womanist/Women of Color Area)

<table>
<thead>
<tr>
<th>Women's Studies Area</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td>AML 3614</td>
<td>Topics in African-American Literature</td>
</tr>
<tr>
<td>AML 3682</td>
<td>Ethnic Literature in America</td>
</tr>
<tr>
<td>AML 4261</td>
<td>Literature of the South</td>
</tr>
<tr>
<td>AML 3212</td>
<td>Peoples of the World</td>
</tr>
<tr>
<td>CCJ 4463</td>
<td>Cultural Diversity in Criminal Justice</td>
</tr>
<tr>
<td>CCJ 4681</td>
<td>Domestic Violence and the Justice System</td>
</tr>
<tr>
<td>EUH 3242</td>
<td>Modern Europe and the First World War</td>
</tr>
<tr>
<td>EUH 5937*</td>
<td>Social Theory/History*</td>
</tr>
<tr>
<td>HSC 3593</td>
<td>CHIV Disease: A Human Concern</td>
</tr>
<tr>
<td>LIT 5556</td>
<td>Feminist Theory*</td>
</tr>
<tr>
<td>LIN 4643</td>
<td>Cross Cultural Communication</td>
</tr>
<tr>
<td>PEM 2405</td>
<td>Self-Defense for Women and Men</td>
</tr>
<tr>
<td>PHI 3640</td>
<td>Environmental Ethics</td>
</tr>
<tr>
<td>PHI 3670</td>
<td>Ethical Theory</td>
</tr>
<tr>
<td>PHI 4300</td>
<td>Theories of Knowledge</td>
</tr>
<tr>
<td>PUP 3314</td>
<td>Minorities in Politics</td>
</tr>
<tr>
<td>SOP 2772</td>
<td>Sexual Behavior</td>
</tr>
<tr>
<td>SOP 3784</td>
<td>Psychology of Diversity</td>
</tr>
<tr>
<td>SYO 4200</td>
<td>Sociology of Religion</td>
</tr>
<tr>
<td>SYP 3630</td>
<td>Sociology of Popular Culture</td>
</tr>
<tr>
<td>SYP 3650</td>
<td>Sociology and Sport</td>
</tr>
<tr>
<td>SYP 4734</td>
<td>Minority Aging</td>
</tr>
<tr>
<td>THE 3230</td>
<td>Cultural Diversity Through Theater</td>
</tr>
</tbody>
</table>

Other courses may be utilized for this area with the permission of the director.

*Undergraduate students will need professor's permission to register for graduate-level courses.

Relevant Special Topics courses are periodically offered through various departments; with prior approval from the Women's Studies Director, some courses may substitute.

2nd Study Area (from those below)

See the Liberal Studies Advising Teams for details regarding each area:

- Arts
- Behavioral and Social Sciences
- Commerce
- Communication
- Computer Science
- Education
- Engineering
- Health and Biomedical Sciences
- Humanities
- Letters and Modern Languages
- Natural Sciences
- Public Affairs

4. Required Minor

(18 hrs)

Students must complete the Women's Studies minor.

5. Program Exit Requirements

- A grade of "C" or above (2.0) is required for each course taken in each of the subject areas.
6. Foreign Language Requirements  
(0-8 hrs)  
Admission: Met by graduation requirement  
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.  
Note: Students entering without having met the admission requirement must do so in order to graduate  

7. Electives  
(variable)  
Select primarily from upper level courses, with Liberal Studies advisor’s approval. May be outside of Women’s Studies.  

8. University Minimum Exit Requirements  
- A 2.0 UCF GPA  
- 60 semester hours earned after CLEP awarded  
- 48 semester hours of upper division credit completed  
- 30 of the last 36 hours of course work must be completed in residency at UCF  
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted  
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)  

Total Semester Hours Required  
- 120 hours  

Related Programs: Liberal Studies - Liberal Studies track; Liberal Studies - Liberal Arts track  
Related Minors: Anthropology in Multicultural Studies  
Transfer Notes:  
- Courses taken at community colleges do not substitute for Upper Division courses  
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.  

LIBERAL STUDIES ACCELERATED PROGRAM  
(B.A./B.S. and M.A./M.S.)  
Accelerated Undergraduate/Graduate Program  
Note: For detailed information about this program, see description in the "Accelerated Undergraduate/Graduate Programs" section of this Undergraduate Catalog.  

MANAGEMENT (B.S.B.A.)  
College of Business Administration  
BA2 101, 407-823-2184  
http://www.bus.ucf.edu  

1. Admission Requirements  
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College  
- See Common Program Prerequisites  

Degree Requirements  
- UCF General Education Program  
  - Communication Foundations  
    - Required: SPC 1600  
    - 9 hrs  
  - Cultural and Historical Foundations  
    - 9 hrs  
  - Mathematical Foundations  
    - Select MAC 1105 College Algebra  
    - Select CJS 2100 Computer Fundamentals for Bus  
    - 3 hrs  
  - Social Foundations  
    - Select ECO 2303 Microeconomics or ECO 2023 Microeconomics  
    - 3 hrs  
  - Select one: PSY 1022, SYG 2000, ANT 2000  
    - 3 hrs  
  - Science Foundation  
    - 6 hrs  
- 36 hrs  

2. Common Program Prerequisites  
- Must be completed with a “C” (2.0) or better.  
  - ACG 2021 Principles of Financial Accounting  
  - ACG 2071 Principles of Managerial Accounting  

3. Required for All Business Majors  
Common Body of Knowledge  
First or subsequent semester in the College of Business Administration:  
- GEB 3031 Cornerstone (Required in 1st or 2nd semester)  
- GEB 3326 Introduction to Internation Business  
- BUL 3130 Legal & Ethical Environments of Business  
- ECO 3411 Quantitative Business Tools II  
- FIN 3403 Business Finance  
- MAN 3025 Management of Organizations  
- ISM 3011 Essentials of Management Information Systems  
- MAR 3023 Marketing  
- Last Semester:  
  - MAN 4720 Strategic Management  
  - 3 hrs  

4. Special college and/or department requirements:  
- Students who change degree programs and select this major must adopt the most current catalog.  
- Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each Common Program Prerequisites class.  
- Students wanting to major in Management must apply for admission to the major.  
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.  
- Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.  
- Students must earn at least a 2.0 GPA in the major and COB.  
- Students majoring in Management must earn a grade of “C” (2.0) or better in MAN 3025, MAN 4720, and each course applied toward the major.  

5. Tracks  
Within the Management major, students can concentrate in 3 areas of study. Courses for each are outlined below:  
- Human Resource Management Track  
  - 24 hrs  
  - Required Courses  
    - 15 hrs  
    - MAN 4101 Human Resource Management  
    - MAN 4240 Organizational Theory and Behavior  
    - MAN 4320 Recruitment and Selection  
    - MAN 4330 Compensation Administration  
    - MAN 4350 Training and Development  
    - 3 hrs  
    - 3 hrs  
    - 3 hrs  
    - 3 hrs  
    - 3 hrs  
  - Elective Courses (choose among MAN courses and BUL 4540)  
    - 9 hrs  
    - Elective  
      - 3 hrs  
    - Elective  
      - 3 hrs  
    - Elective/ BUL 4540 Employment Law  
      - 3 hrs  

- General Management Track  
  - 24 hrs  
  - Required Courses  
    - 15 hrs  
    - ISM 3530 Quality & Productivity Management  
    - MAN 4101 Human Relations in Management  
    - MAN 4240 Organizational Theory & Behavior  
    - MAN 4600 International Management  
    - MAN 4701 Business Ethics and Society  
    - 3 hrs  
    - 3 hrs  
    - 3 hrs  
    - 3 hrs  
    - 3 hrs  
  - Elective Courses (choose among MAN courses and BUL 4540)  
    - 9 hrs  
    - Elective  
      - 3 hrs  
    - Elective  
      - 3 hrs  
    - Elective/ BUL 4540 Employment Law  
      - 3 hrs  

- Management Track: Entrepreneurship  
  - 24 hrs  
  - Required Courses  
    - 15 hrs  
    - MAN 3301 Human Resources Management  
    - MAN 4802 Entrepreneurship  
    - GEB 4117 Business Plan Preparation  
    - GEB 4111 New Venture Finance or FIN 3470 Small Business Finance  
    - MAR 3641 Market Intelligence or MAR 3880 E-Marketing  
    - 3 hrs  
    - 3 hrs  
    - 3 hrs  
    - 3 hrs  
    - 3 hrs  
  - Elective Courses (choose among MAN courses and BUL 4540)  
    - 9 hrs  
    - Elective  
      - 3 hrs  
    - Elective  
      - 3 hrs  
    - Elective  
      - 3 hrs  

ECO 2013 Macroeconomics  
ECO 2023 Microeconomics  
*ECO 3401 Quantitative Business Tools I  
CGS 2100CC Computer Fundamentals for Business  
* At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a “C” (2.0) or better must take ECO3401.
6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

7. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

8. Electives
**General electives as required to reach 120 semester hours.
**Total Semester Hours Required: 120 hrs

Community/Junior College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C”(2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- 3000 & 4000 level courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- Any student receiving a business degree must complete one half of the 60 upper level business courses for their degree program in the UCFCollege of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT MAJORS

Freshman
- **MAN Elective 3**
- **BUL 4540 Employment Law 3 hrs**
- Must complete nine hours in a summer semester

Sophomore
- **MAN 3025 3**
- **FIN 3403 3**
- **MAR 3023 3**
- **ECO 3411 3**
- **GEB 3031 6**
- **MAN 4720 3**
- **MAN Elective 3**
- **ECON 3401 3**

Junior
- **MAN Elective 3**
- **MAN 4305 3**
- **MAN 4240 3**
- **MAN 4600 3**
- **MAN 4320 3**
- **MAN Elective 3**
- **MAN Elective 3**
- **ECON 3411 3**
- **FIN 3403 3**
- **MAN 3025 3**
- **ISOC 3011 3**

Senior
- **MAN Elective 3**
- **MAN 4701 3**
- **MAN 4101 3**
- **MAN 4600 3**
- **MAN 4330 3**
- **MAN Elective 3**
- **MAN Elective 3**
- **ECON 3411 3**
- **FIN 3403 3**
- **ISOC 3011 3**

Entrepreneurship Track
- **MAN Elective 3**
- **MAN Elective 3**
- **MAN Elective 3**
- **ECON 3411 3**
- **FIN 3403 3**
- **ISOC 3011 3**

Human Resource Management Track
- **MAN Elective 3**
- **MAN Elective 3**
- **MAN Elective 3**
- **ECON 3411 3**
- **ISOC 3011 3**

General Management Track
- **MAN Elective 3**
- **MAN Elective 3**
- **ECON 3411 3**
- **ISOC 3011 3**

Management Information Systems (B.S.B.A.)

College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu

Admission Requirements
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements
1. UCF General Education Program (36 hrs)
- Communication Foundations 9 hrs
- Cultural and Historical Foundations 9 hrs
- Mathematical Foundations 3 hrs
- Social Foundations 3 hrs
- Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics 3 hrs
- Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
- E. Science Foundation 6 hrs

2. Common Program Prerequisites
Must be completed with a 2.5 or better.

- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- ECO 2013 Macroeconomics
- ECO 2023 Microeconomics
- CGS 2100CC Computer Fundamentals for Business
- *ECO 3401 Quantitative Business Tools I

* At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a “C” (2.0) or better must take ECO 3401.

3. Required for All Business Majors (30 hrs)
First or subsequent semester in the College of Business Administration:

- GEB 3031 Cornerstone (Required in 1st or 2nd semester) 6 hrs
- GEB 3536 Introduction to International Business 3 hrs
- BUL 3131 Legal & Ethical Environments of Business 3 hrs
- ECO 3411 Quantitative Business Tools II 3 hrs
- FIN 3403 Business Finance 3 hrs
- MAN 3025 Management of Organizations 3 hrs
- MAR 3023 Marketing 3 hrs
- ISM 3011 Essentials of Management Info Systems 3 hrs

Last Semester:

- MAN 4720 Strategic Management 3 hrs

4. Special college and/or department requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Students desiring to major in Management Information Systems must apply for admission to the major and have at least a 2.5 GPA in Common Program Prerequisites...
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.

Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- All courses required for the major (including electives) must be completed with a grade of “C” (2.0) or better in order to graduate.
- All College of Business Administration students are expected to have access to late model computers and the software needed to complete class assignments. This requirement is especially important for MIS majors. Contact a department advisor for the current expectations.
- Students are cautioned to study the course prerequisite structure and the Four Year Plan of Study later in this section when planning their schedules. MIS course prerequisites cannot be waived.
- Lower division courses may not be taken for upper division credit in the major.
- Students must earn at least a 2.0 GPA in the major and COB.
- Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisite class.

5. Required Courses (22 hrs)

- ISM 3253 MIS Techniques 4 hrs
- ISM 4113 Information Systems Analysis & Design 3 hrs
- ISM 4130 Information Systems Implementation 3 hrs
- ISM 4212C Database Management Systems 3 hrs
- ISM 4220 Distributed Information Systems 3 hrs
- ISM 4300 Information Technology Management 3 hrs
- ISM 4400 Decision Support Systems 3 hrs

Plus two of the following: (6 hrs)

Any 3000 or 4000 level ISM prefix course.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None

7. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

8. Electives*** (variable)

Total Semester Hours Required 120 hours

Community/Junior College Transfer Notes

- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of “C” (2.0) or higher transfer into the program and students must have a “C”(2.0) or better in each common program prerequisites class.

- ACG X001 and X011 will substitute for ACG 2021 at UCF.

- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.

- Professional courses should not be taken at a community/junior college. This includes the areas of MIS, Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.

- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.

- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT INFORMATION SYSTEMS MAJORS

<table>
<thead>
<tr>
<th>Freshman</th>
<th>1st Term</th>
<th>15 hrs</th>
<th>2nd Term</th>
<th>15 hrs</th>
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<tbody>
<tr>
<td>ENC 1101*</td>
<td>3</td>
<td>ENC 1102*</td>
<td>3</td>
<td></td>
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<tr>
<td>Cult-Hist I*</td>
<td>3</td>
<td>Cult-Hist II*</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SPC 1600</td>
<td>3</td>
<td>Art/Music/Lit</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>**Elective</td>
<td>3</td>
<td>**Elective</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>**Elective</td>
<td>3</td>
<td>CGS 2100CC*</td>
<td>3</td>
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</table>

Must complete nine hours in a summer semester

<table>
<thead>
<tr>
<th>Sophomore</th>
<th>1st Term</th>
<th>15 hrs</th>
<th>2nd Term</th>
<th>15 hrs</th>
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</thead>
<tbody>
<tr>
<td>ECO 2023*</td>
<td>3</td>
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* “C” (2.0) or better grade required in each class

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**General electives as required to reach 120 semester hours.

UCF Degree Programs

197
MARKETING (B.S.B.A.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu

Admission Requirements
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements
1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      Required: SPC 1600
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
      Select MAC 1105 College Algebra
      Select CGS 2100C Computer Fundamentals for Bus
   D. Social Foundations
      Select ECO 2003 Microeconomics or ECO 2023 Microeconomics
      Select one: PSY 2012, SYG 2000, ANT 2000
   E. Science Foundation
      (6 hrs)

2. Common Program Prerequisites
   Must be completed with a "C" (2.0) or better.
   ACG 2021 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2013 Macroeconomics
   ECO 2023 Microeconomics
   *ECO 3401 Quantitative Business Tools I
   *CGS 2100C Computer Fundamentals for Business
   *(At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO3401.

3. Required for All Business Majors (30 hrs)
   First or subsequent semester in the College of Business Administration:
   GEB 3031 Cornerstone (Required in 1st or 2nd semester)
   GEB 3156 Introduction to International Business
   BUL 3130 Legal & Ethical Environments of Business
   ECO 3411 Quantitative Business Tools II
   FIN 3403 Business Finance
   MAN 3025 Management of Organizations
   ISM 3011 Essentials of Management Information Systems
   MAR 3023 Marketing
   Last Semester:
   MAN 4720 Strategic Management
   
4. Special college and/or department requirements:
   - Students who change degree programs and select this major must adopt the most current catalog.
   - Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
   - Students wanting to major in Marketing must apply for admission to the major.
   - Final exams will be given during Exam Week.
   - Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.
   - Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
   - Students majoring in Marketing must earn a grade of "C" (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. MAR 3023 is included in this requirement.
   - Students must earn at least a 2.0 GPA in the major and CBA.

5. Required Courses (18 hrs)
   MAR 3391 Professional Selling
   MAR 3903 Customer Behavior
   MAR 3613 Marketing Analysis and Research
   MAR 3641 Marketing Intelligence
   MAR 4803 Marketing Management
   MAR 4804 Marketing Strategy
   
6. Restricted Electives – General Marketing (9 hrs)
   Minimum of 3 courses required
   MAR 3323 Integrated Marketing Communication

7. Required Electives - Sales Track* (9 hrs)
   MAR 3043 Sales Force Management
   MAR 3880 E-Marketing
   *MAR 4156 International Marketing
   MAR 4231 Retailing Management
   MAR 4711 Sport Marketing
   MAR 4712 Healthcare Marketing
   MAR 4715 Entertainment Marketing
   *MAR 4724 Strategic Foundations in Global e-Business
   MAR 4841 Services Marketing
   MAR 4941 Marketing Internship
   *either MAR 4156 or MAR 4724 (not both) may be taken as an elective.

8. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after any CLEP award
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

10. Electives*** (variable)

Total Semester Hours Required 120 hrs
Majors who meet departmental criteria are also eligible to apply for a marketing internship (MAR 4941) and/or take the small business consulting class (MAR 5941). MAR 5941 cannot count as one of the three restricted electives required of marketing majors. For additional information about the department, curriculum, faculty, events, and careers in marketing, students are invited to visit our department home page at: http://www.bus.ucf.edu/mar/.

Community/Junior College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include
  - Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class.
  - At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
  - Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
  - ACG X001 and X011 will substitute for ACG 2021 at UCF
  - Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.

- Professional courses should not be taken at a community/junior
FOUR YEAR PLAN OF STUDY – GENERAL MARKETING

Freshman
1st Term 15 hrs 2nd Term 15 hrs
ENC 1101 3 ENC 1102 3
Cull-Hist II 3 Cull-Hist II 3
SPC 1600 3 Art/Music/Lit 3
***Elective 3 MAR 1105 3
***Elective 3 CGS 2100CC 3
Must complete nine hours in a summer semester

Sophomore
1st Term 15 hrs 2nd Term 15 hrs
ECO 2023 3 ECO 2013 3
ACG 2021 3 ACG 2071 3
ECO 2023 3 ECO 2013 3
1st Term 15 hrs 2nd Term 15 hrs
***Elective 3 CGS 2100CC 3
***Elective 3 MAC 1105 3
SPC 1600 3 Art/Music/Lit 3
Cult-Hist I 3 Cult-Hist II 3
ENC 1101 3 ENC 1102 3

Freshman
FOUR YEAR PLAN OF STUDY – MARKETING: SALES TRACK

Freshman
1st Term 15 hrs 2nd Term 15 hrs
ENC 1101 3 ENC 1102 3
Cull-Hist I 3 Cull-Hist II 3
SPC 1600 3 Art/Music/Lit 3
***Elective 3 MAC 1105 3
***Elective 3 CGS 2100CC 3
Must complete nine hours in a summer semester

Sophomore
1st Term 15 hrs 2nd Term 15 hrs
ECO 2023 3 ECO 2013 3
ACG 2021 3 ACG 2071 3
ECO 2023 3 ECO 2013 3
1st Term 15 hrs 2nd Term 15 hrs
***Elective 3 CGS 2100CC 3
***Elective 3 MAC 1105 3
SPC 1600 3 Art/Music/Lit 3
Cult-Hist I 3 Cult-Hist II 3
ENC 1101 3 ENC 1102 3

General electives as required to reach 120 semester hours.

FOUR YEAR PLAN OF STUDY – MARKETING: SALES TRACK

Freshman
1st Term 15 hrs 2nd Term 15 hrs
ECO 3411 3 MAR 3391 3
GEB 3031 6 BUL 3130 3
GEB 3356 3 FIN 3403 3
MAR 3023 3 MAR 3503 3
MAR 3613 3

Sophomore
1st Term 15 hrs 2nd Term 15 hrs
MAR 4803 3 MAR 4720 3
MAR Elective 3 MAR 4904 3
MAN 3025 3 MAR Elective 3
ISM 3011 3 MAR Elective 3
MAR 3641 3 GE Non-Business Elect 3

General electives as required to reach 120 semester hours.

MATHEMATICS-APPLIED TRACK (B.S.)

College of Sciences, Department of Mathematics,
MAP 207, 407-823-6284
http://math.ucf.edu
E-mail: math@mail.ucf.edu
Contact: H. Martin, MAP 231F, 407-823-5700,
E-mail: martin@math.ucf.edu
The Department of Mathematics offers special courses for students in the Honors Program. These courses are with an H such as MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

Admission Requirements none

Degree Requirements
Students who change degree programs and select this major must adopt the most current catalog.
All mathematics courses except MAC 2311, MAC 2312, MAC 2313, and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Math Department.
Co-op or internship credit cannot be used in this major.
Students must earn at least a "C" (2.0) in each required course.
Students should consult with a departmental advisor.
Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36+3 hrs)
(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
1. Select MAC 2311 4 hrs
2. Select COP 3502C 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations
1. Select BSC 201DC 4 hrs
2. Select PHY 2048 & L 4 hrs

2. Common Program Prerequisites (11 hrs)
COP 3223* Intro to Programming with C 3 hrs
MAC 2311 Calculus with Analytic Geo I GEP 4 hrs
MAC 2312 Calculus with Analytic Geo II 4 hrs
MAC 2313 Calculus with Analytic Geo III 4 hrs
BSC 201DC* Biology I GEP 3 hrs
PHY 2048 & L Physics for Sci & Eng I & Lab GEP 4 hrs
*See Transfer Notes for possible substitutes

3. Core requirements (52 hrs)
PHY 2049 & L Physics for Sci & Eng II & Lab 4 hrs
One course selected from
ENCE 3241 Writing for Tech Professional
ENCE 3310 Magazine Writing I
ENCE 3311 Advanced Expository Writing
STA 2023 Statistical Methods I
MHF 3302 Logic and Proof in Mathematics 3 hrs
MAP 2302 Differential Equations 3 hrs
MAS 3105 Matrix & Linear Algebra 4 hrs
MAS 3106 Linear Algebra 4 hrs
Select one course 3 hrs
MAD 4203 Combinatorics & Graph Theory
MAP 4153 Vector and Tensor Analysis
MAP 4307 Appl of Complex Variables
MAP 4363 Appl Boundary Value Prob I
STA 4321 Statistical Theory I
MAP 4364 Appl Boundary Value Prob II
COP 3502C Computer Science I GEP 3 hrs
STA 4322 Statistical Theory II 3 hrs
MAA 4226 Advanced Calculus I 4 hrs
COT 4500 Numerical Calculus 3 hrs
MAP 4103 Mathematical Modeling 3 hrs

4. Restricted Electives (6 hrs)
a. Applied Elective 3 hrs
Select from COT 4210, COT 4110, COT 5507, COT 5510, EGN 3310,
**5. Departmental Exit Requirements**

- Earn a grade of "C" (2.0) or better in each course required in the department program (sections 2-4 above).
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by COP 2200.

**6. Foreign Language Requirements**

**Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** none

**7. Electives (variable)**

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

**8. University Minimum Exit Requirements**

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit must be completed
- 30 of the last 36 hours of course must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

**Total Semester Hours Required** 120 hrs

**Related Programs:** Applied Math, Computer Science, Engineering, Math Education, Statistics

**Related Minors:** Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

**Transfer Notes:**

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:

- COF 3223* may use any mathematical programming language course with a COP prefix
- BSC 2010C*, may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if GEP was completed before transferring.
- PHY 2048*: may use any PHY course with a lab. However, PHY 2048 is a prerequisite for PHY 2049 and must be taken

**Suggested Plan of Study:**

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

**Summer**

- Math placement See catalog 0

**Freshman Year**

**Fall**

- ANT 2000* req# 1D2-GEF 3 hrs
- ENC 1101 Composition I 3 hrs
- MAC 2311 Calc Anal Geo I 4 hrs
- STA 2023 Stat Methods I 3 hrs

**Spring**

- BSC 2010C Biology I 4 hrs
- ENC 1102 Composition II 3 hrs
- MAC 2312 Calc Anal Geo II 4 hrs
- MHF 3302 Logic and In Math 3 hrs

**Sophomore Year**

**Fall**

- COM 1000* req# 1A3-GEF 3 hrs
- PHY 2048 Phy for Eng Sci I 3 hrs

**Spring**

- POS 2041* req# 1D1-GEF 3 hrs
- MAP 2302 Diff Equations 3 hrs

**Junior Year**

**Fall**

- AMH 2010* req# 1B1-GEP 3 hrs
- COP 3223* Intro to Prog C 3 hrs
- MAD 2403* req# 3-Core 3 hrs
- MAP 4363 Ap Bound Prob I 3 hrs
- Elective* Check restrictions 4 hrs

**Spring**

- COP 3223* Intro to Prog C 3 hrs
- MAA 4226 Adv Calculus I 4 hrs
- STA 4321 Stat Theory I 3 hrs
- COT 4210* req# 4a-ResElec 3 hrs

**Senior Year**

**Fall**

- ARH 2050* req# 1B3-GEP 3 hrs
- COP 4250 Numerical Calculus 3 hrs
- MAA 4226 Adv Calculus I 4 hrs
- STA 4322 Stat Theory II 3 hrs
- COP 3502C Computer Science I 3 hrs

**Spring**

- ENC 3241* req# 3-Core 3 hrs
- MAA 4226 Adv Calculus I 4 hrs
- STA 4322 Stat Theory II 3 hrs
- PCB 3063* req# 4b-ResElec 3 hrs
- Elective* Check restrictions 4 hrs

**Mathematics - Computational Track (B.S.)**

**College of Sciences, Department of Mathematics**

**MAP 207, 407-823-6284**

**http://math.ucf.edu**

**E-mail:** math@mail.ucf.edu

**Contact:** H. Martin, MAP 231F, 407-823-5700, E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are designated with an H such as MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

**Admission Requirements** none

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, MAC 2312, MAC 2313, and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
- Students must earn at least a "C" (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in sections 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

**1. UCF General Education Program** (36 + 3 hrs)

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

**A. Communication Foundations** 9 hrs
- A Communication Foundations 9 hrs

**B. Cultural and Historical Foundations** 9 hrs
- A Cultural and Historical Foundations 9 hrs

**C. Mathematical Foundations**

- 1. Select MAC 2311 4 hrs
- 2. Select COP 3502C 3 hrs

**D. Social Foundations** 6 hrs
- A Social Foundations 6 hrs

**E. Science Foundations**

- 1. Select BSC 2010C 4 hrs
- 2. Select PHY 2048 & L 4 hrs

**2. Common Program Prerequisites** (11 hrs)

- COP 3223* Intro to Programming with C 3 hrs
- MAC 2311 Calculus with Analytic Geo I 4 hrs
- MAC 2312 Calculus with Analytic Geo II 4 hrs
- MAC 2313 Calculus with Analytic Geo III 4 hrs
- BSC 2010C* Biology I 4 hrs
- PHY 2048&L Physics for Sci & Eng I w/lab

*See Transfer Notes for possible substitutes

**3. Basic Core Requirements** (10 hrs)

- COP 3502C Computer Science I 4 hrs
- PHY 2049&L Physics for Sci & Eng II w/lab 4 hrs
- STA 2023 Statistical Methods I 3 hrs
- MAP 2302 Differential Equations 3 hrs

**4. Advanced Core Requirements** (42 hrs)

- Select one course 3 hrs
- MATH 3302 Logic and Proof in Mathematics
COT 3100C Intro to Discrete Structures
ENC 3241 Writing for the Tech Professional 3 hrs
MAS 3106 Linear Algebra 4 hrs
MAD 4203 Combinatorics & Graph Theory 4 hrs
MAP 4307 Appl of Complex Variables 3 hrs
MAP 4353 Appl Boundary Value Prob I 3 hrs
STA 4221 Statistical Theory I 3 hrs
MAP 4364 Appl Boundary Value Prob II 3 hrs
COP 3502C Computer Science II 3 hrs
STA 4322 Statistical Theory II 3 hrs
MAA 4226 Advanced Calculus I 4 hrs
COT 4500 Numerical Calculus 3 hrs
Select one course 3 hrs
MAP 4103 Mathematical Modeling 3 hrs
MAP 4153 Vector and Tensor Analysis 3 hrs

5. Restricted Electives (18 hrs)
Select six upper division courses
COP 3402C Systems Software 3 hrs
COP 3503C Computer Science III 3 hrs
CDA 415O Computer Architecture 3 hrs
COP 4020 Programming Languages I 3 hrs
COP 4600 Operating Systems 3 hrs
COT 4210 Discrete Computational Structures 3 hrs
or any MAA, MAD, MAP, MAS, or MTG upper division courses

6. Departmental Exit Requirements
- Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-5 above).
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by COP 3502C.

7. Foreign Language Requirements
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation: none

8. Electives (variable)
Students desiring to complete a double major in both Computer Science and Applied Mathematics must also complete all the requirements of the School of Computer Science. To minimize the total hours taken for both majors, students should select an advanced computer science course for the unrestricted elective.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics
Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
  - COP 3223*: may use any programming language course with a COP prefix.
  - BSC 2010C*: may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if GEP was completed before transferring.
  - PHY 2048*: may use any PHY course with a lab; however, PHY 2048 is a prerequisite for PHY 2049 which must be taken.

MATHS -
ENGINEERING/ PHYSICS TRACK (B.S.)
College of Sciences, Department of Mathematics
MAP 207, 407-823-6284
http://math.ucf.edu
E-mail: math@mail.ucf.edu
H. Martin, MAP 231F, 407-823-5700, E-mail: martin@math.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are designated with an H such as MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

Admission Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, MAC 2312, MAC 2313 and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
- Students must earn at least a “C” (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in sections 1 (General Education Program) and 2 (Common Program Prerequisites) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 + 3 hrs)
- Certain courses must be selected in the GEP for this major which brings the GEP hours above 36
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
  1. Select MAC 2311 4 hrs
  2. Select COP 3502C 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations
  1. Select BSC 2010C 4 hrs
  2. Select PHY 2048 & L 4 hrs

2. Common Program Prerequisites (11 hrs)
COP 3223* Intro to Programming with C 3 hrs
MAC 2311 Calculus with Analytic Geo I GEP
MAC 2312 Calculus with Analytic Geo II 4 hrs
MAC 2313 Calculus with Analytic Geo III 4 hrs
BSC 2010C* Biology I GEP
PHY 2048* Physics for Sci & Eng I w/lab 4 hrs
*See Transfer Notes for possible substitutes

3. Basic Core Requirements (10 hrs)
COP 3502C Computer Science I GEP
PHY 2049&L Physics & Eng II w/lab 4 hrs
MAP 2302 Differential Equations 3 hrs
Select one course 3 hrs
STA 3032 Prob. & Stats for Engineers
STA 2023 Statistical Methods I

4. Advanced Core Requirements (53 hrs)
Select one course 3 hrs
MHF 3302 Logic and Proof in Mathematics
COT 3100C Intro to Discrete Structures
Select one course 3 hrs
MAP 4103 Mathematical Modeling
EML 3034C Modeling Meth in Mech. & Aero Eng
PHZ 3151 Computer Methods in Physics
MAP 4153 Vector and Tensor Analysis 3 hrs
MAP 4307 Appl of Complex Variables 3 hrs
MAP 4363 Appl Boundary Value Prob I 3 hrs
MAP 4364 Appl Boundary Value Prob II 3 hrs
MAA 4226 Advanced Calculus I 4 hrs
EGN 3321 Engineering Analysis - Dynamics 3 hrs
Select one course 3 hrs
EGN 3420 Engineering Analysis
COT 4500 Numerical Calculus 4 hrs
Select one course 4 hrs
MAS 3106 Linear Algebra
MAD 4203 Combinatorics & Graph Theory
UCF Degree Programs

Select one course  
EGN 3310 Engineering Analysis - Statics  3 hrs
PHY 3220 Mechanics I  3 hrs
Select one course  
EGN 3373 Principles of Electrical Engineering  3 hrs
PHY 3101 Physics for Eng & Sci III  3 hrs
Select one course  
CHM 2046 Chemistry Fundamentals II  3 hrs
or any MAA, MAD, MAP, MAS, or MTG course at 3000 level or above
Select one course  
EGN 3358 Thermo-Fluids-Heat Transfer  3 hrs
PHY 3513 Thermal & Statistical Physics  3 hrs
or any MAA, MAD, MAP, MAS, or MTG course at 3000 level or above
Select one course  
EML 3701 Fluid Mechanics  3 hrs
CWR 3201 Engineering Fluid Mechanics  3 hrs
PHY 3101 Physics for Eng & Sci III  3 hrs
(PHY 3101 may be selected only if EGN3373 is also taken)
EIN 4628C Industrial Applications of Computers  3 hrs
PHZ 3113 Intro. to Theoretical Methods of Physics  3 hrs
or any MAA, MAD, MAP, MAS, or MTG course at 3000 level or above
Select one course  
EGN 3331 Mechanics of Materials  3 hrs
CHM 2046 Chemistry Fundamentals II  3 hrs
ESI 4312 Operations Research  3 hrs
EGM 3601 Solid Mechanics  3 hrs
EML 4220 Vibration Analysis  3 hrs
EEL 3004 Electrical Networks  3 hrs
PHY 4604 Wave Mechanics I  3 hrs
or any MAA, MAD, MAP, MAS or MAS course at 3000 level or above
Select one course  
CES 4100C Structural Analysis I  3 hrs
EGN 3331 Mechanics of Materials  3 hrs
EIN 3000 Intro. to Indust. Eng. & Mngmnt Sys  3 hrs
EAS 3101 Aerodynamics I  3 hrs
EGM 3001 Solid Mechanics  3 hrs
EEL 3004 Electrical Networks  3 hrs
or any PHY, PHZ, AST, MAA, MAD, MAP, or MAS course at 3000 level or above

5. Restricted Electives  (6 hrs)
Select two courses  
STA 4321 Statistical Theory I  3 hrs
STA 4322 Statistical Theory II  3 hrs
PHY 3323 Electricity & Magnetism I  3 hrs
PHY 3324 Electricity & Magnetism II  3 hrs
EGN 3365 Structure & Property of Materials  9 hrs
EGN 3613 Engineering Economic Analysis  3 hrs
EGN 3704 Engineering & the Environmental  3 hrs
EEL 3342 Intro. to Digital Circuits and Systems  3 hrs
EEL 3801C Intro. to Computer Engineering  3 hrs
EEL 3857 Linear Control Systems  3 hrs
EML 4142 Heat Transfer  3 hrs
EML 4312C Feedback Control  3 hrs
EML 3262 Kinematics and Mechanisms  3 hrs
EAS 4200 Flight Structures  3 hrs
EAS 4400 Spacecraft Attitude Dynamics  3 hrs
EAS 4505 Orbital Mechanics  3 hrs
EAS 4105 Flight Mechanics  3 hrs
EML 4703 Fluid Mechanics II  3 hrs
EML 4223 Deformation and Fracture of Materials  3 hrs
CWR 4203C Hydraulics  3 hrs
CWR 4101C Hydrology  3 hrs
ENV 4561 Environmental Eng Processes & Design  3 hrs
ESI 4234 Quality Engineering  3 hrs
ESI 4523C Systems Simulation  3 hrs
EIN 4333C Industrial Control Systems  3 hrs
EEL 3470 Electromagnetic Fields  3 hrs
EEL 3552C Analog & Digital Communication Fund  3 hrs
EEL 4750 Digital Signal Processing Fund.  3 hrs
EEL 4767C Computer System Design I  3 hrs
EEL 4832 Eng. Applications of Computer Models  3 hrs
EEL 4851C Engineering Data Structures  3 hrs
or any MAA, MAD, MAP, or MAS course at 3000 level or above

6. Departmental Exit Requirements
- Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-5 above).
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by EGN 3420 or COP 3502C.

7. Foreign Language Requirements
Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

8. Electives  (variable)
Students desiring a double major in Engineering or Physics and Mathematics must also complete all requirements of both majors. Students should select electives which satisfy both majors simultaneously when possible.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hours

Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- COP 3223*: may use any programming language course with a COP prefix.
- BSC 2010C*: may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if GEP was completed before transferring.

PHY 2048*: may use any PHY course with a lab; however, PHY 2048 is a prerequisite for PHY 2049 which must be taken.

MATHEMATICS - PURE TRACK (B.S.)

College of Sciences, Department of Mathematics
MAP 207 407-823-6284
http://math.ucf.edu
E-mail: math@mail.ucf.edu

The Department of Mathematics offers special courses for students in the Honors Program. These courses are designated with an H such as MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

Admission Requirements: none

Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, MAC 2312, MAC 2313, and MAP 2302 must either be taken from, or approved by the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
- Students must earn at least a “C” (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program  (36 + 3 hrs)
(Notes: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)
A. Communication Foundations  9 hrs
B. Cultural and Historical Foundations  9 hrs
C. Mathematical Foundations
   1. Select MAC 2311  4 hrs
2. Select COP 3502C 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations
1. Select BSC 2010C 4 hrs
2. Select PHY 2048 & L 4 hrs

2. Common Program Prerequisites (11 hrs)
- COP 3223* Intro to Programming with C 3 hrs
- MAC 2311 Calculus with Analytic Geo I GEP
- MAC 2312 Calculus with Analytic Geo II 4 hrs
- MAC 2313 Calculus with Analytic Geo III 4 hrs
- BSC 2010C* Biology I GEP
- PHY 2040* & L Physics for Sci & Eng I & Lab
- GPA

3. Core requirements (53 hrs)
- PHY 2049 & L Physics for Sci & Eng II & Lab 4 hrs
One course selected from
- ENC 3241 Writing for the Tech Professional
- ENC 3310 Magazine Writing
- ENC 3311 Advanced Expository Writing
- STA 3023 Statistical Methods 3 hrs
- MHF 3302 Logic and Proof in Mathematics 3 hrs
- MAP 2302 Differential Equations 3 hrs
- MAS 3105 Matrix & Linear Algebra 4 hrs
- MAS 3106 Linear Algebra 4 hrs
- MAP 4363 Applied Boundary Value Prob I 3 hrs
- STA 4321 Statistical Theory I 3 hrs
- MAS 4301 Algebraic Structures 3 hrs
- STA 4322 Statistical Theory II 3 hrs
- COP 3502C Computer Science I GEP
- MAA 4226 Calculus II 4 hrs
- MAA 4227 Calculus III 4 hrs
- MAD 4203 Combinatorics & Graph Theory 4 hrs
- MTG 4302 Introduction to Topology 3 hrs
- MAP 4307 Appl to Complex Variables 3 hrs

4. Restricted Electives (3 hrs)
- Select from PCB 3044, PCB 3063, PCB 4302C, PCB 4303C, CHM 2210, CHM 2046, PHY 3101, PHY 3323, PHY 4424

5. Departmental Exit Requirements
- Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-4 above)
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by COP 3502C

6. Foreign Language Requirements
Admission: Two years high school or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation: None

7. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Statistics, Applied Math, Computer Science, Engineering, Math Education
Related Minors: Computer Science, Engineering, Math, Physics, Statistics
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- COP 3223*: may use any programming course with a COP prefix.
- BSC 2010C*: may use any laboratory BSC or CHM lab course which is designed for majors, or CHM 2045C if GEP was completed before transferring.
- PHY 2048*: may use any PHY course with a lab. However PHY 2048 is a prerequisite for PHY 2049 and must be taken

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
- Math placement See catalog

Freshman Year
Fall
- ANT 2000* req# 1D2-GEP 3
- ENC 1101 Composition I 3
- MAC 2311 Calc Anal Geo I 4
- STA 2023 Stat Methods I 3

Spring
- PHY 2048* Phy for Eng Sci I 3
- PHY 2048L Phy L Eng Sci I 1
- MAC 2313 Calc Anal Geo II 4
- MAC 3105 Matrix and Lin Alg 4

Sophomore Year
Fall
- COM 1000* req# 1A3-GEP 3
- ENC 1102 Composition II 3
- PHY 2049 Phy for Eng Sci II 3
- PHY 2049L Phy L Eng Sci II 1

Spring
- ENC 3241* req# 3-Core 3
- MAA 4227 Adv Calculus II 4
- MAA 4228 Adv Calculus III 4
- MTG 4302 Intro to Topology 3

Junior Year
Fall
- ENC 3310 Magazine Writing 3
- ENC 3311 Advanced Expository Writing 3
- STA 4321 Statistical Theory I 3
- STA 4322 Statistical Theory II 3
- COP 3502C Computer Science I GEP
- MAA 4226 Calculus II 4 hrs
- MAA 4227 Calculus III 4 hrs

Spring
- MAD 4203 Combinatorics & Graph Theory 4 hrs
- MTG 4302 Introduction to Topology 3 hrs
- MAP 4307 Appl to Complex Variables 3 hrs

Senior Year
Fall
- ENC 3310 Magazine Writing 3
- ENC 3311 Advanced Expository Writing 3
- STA 4321 Statistical Theory I 3
- STA 4322 Statistical Theory II 3
- COP 3502C Computer Science I GEP
- MAA 4226 Calculus II 4 hrs
- MAA 4227 Calculus III 4 hrs

Spring
- MAD 4203 Combinatorics & Graph Theory 4 hrs
- STA 4321 Statistical Theory I 3
- STA 4322 Statistical Theory II 3
- COP 3502C Computer Science I GEP

Mathematics Education (B.S.)
College of Education
Department of Teaching and Learning Principles
ED 209; http://pegasus.cc.ucf.edu/~mathed
Program Coordinator: Dr. Michael Hynes
ED 123-K, 407-823-2005
E-mail: hynes@mail.ucf.edu

Admission Requirements
Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

Degree Requirements
- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

1. UCF General Education Program (37 hrs)
   A. Communication Foundations (9 hrs)
### UCF Degree Programs

**Note:** See laboratory component under Section 2.

#### 2. Common Program Prerequisites (24 hrs)

<table>
<thead>
<tr>
<th>A. Communications</th>
<th>B. Humanities</th>
<th>C. Mathematics</th>
<th>D. Social Science/History</th>
<th>E. Science</th>
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<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>PHI 2010 Introduction to Philosophy</td>
<td>MAC 2311 Calculus with Analytic Geometry I</td>
<td>AMH 2010 U.S. History 1492-1877</td>
<td>PSC 1121 Physical Science</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>ARH 2050 History of Western Art I</td>
<td>MAC 2312 Calculus with Analytic Geometry II</td>
<td>AMH 2020 U.S. History 1877-Present</td>
<td>( \text{Select one:} )</td>
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<tr>
<td>(9 hrs)</td>
<td>(3 hrs)</td>
<td>(4 hrs)</td>
<td>(12 hrs)</td>
<td>(6 hrs)</td>
</tr>
<tr>
<td>ENC 1101 Composition I</td>
<td>ARH 2051 History of Western Art II</td>
<td>STA 2023 Statistical Methods I</td>
<td>CRJ 2000 Criminal Justice System</td>
<td>PSC 1121L Physical Science Laboratory</td>
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<td>ENC 1102 Composition II</td>
<td>ARH 2052 History of Western Art III</td>
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<td>GEP</td>
<td>GEP</td>
<td>GEP</td>
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</tr>
</tbody>
</table>

**Note:** See laboratory component under Section 2.

#### 6. Internship II (ESE4943) (12 hrs)

- At least 80% of all required mathematics courses and all methods courses must be completed before doing Internship II.
- See additional requirements under College of Education, Office of Clinical Experiences.
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065.

#### 7. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

#### 8. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

#### 9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

#### 10. Total Program Semester Hours Required 128 hours

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

#### 11. Recommended Four-Year Sequence of Courses

**Freshman Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>(17 hrs)</th>
<th>Spring</th>
<th>(16 hrs)</th>
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<tbody>
<tr>
<td>EDG 2701</td>
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<td>AMH 2010</td>
<td>3 hrs</td>
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<tr>
<td>ENC 2101</td>
<td>3 hrs</td>
<td>ENC 1102</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>4 hrs</td>
<td>MAC 2312</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PSC 1121</td>
<td>3 hrs</td>
<td>STA 2023</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PSC 1121L</td>
<td>1 hr</td>
<td>ANT 2511</td>
<td>or</td>
</tr>
<tr>
<td>SPC 1600</td>
<td>3 hrs</td>
<td>BSC 1005</td>
<td></td>
</tr>
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**Sophomore Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>(15 hrs)</th>
<th>Spring</th>
<th>(16 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 2302</td>
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<td>MH 3302</td>
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<tr>
<td>MHF 3302</td>
<td>3 hrs</td>
<td>EME 2040</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PSY 2012</td>
<td>3 hrs</td>
<td>ENC 1102</td>
<td>3 hrs</td>
</tr>
<tr>
<td>AST 2002 or</td>
<td>3 hrs</td>
<td>MAS 3105</td>
<td>4 hrs</td>
</tr>
<tr>
<td>GEO 1200 or</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>GLY 1030</td>
<td>3 hrs</td>
<td>MAS 3103</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPC 1600</td>
<td>3 hrs</td>
<td>ENC 1102</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**Note:** Some course waivers/substitutions may be possible. See advisor.

**5. Specialization Requirements (37 hrs)**

### C. Mathematical Foundations

- Select MAC 2311 Calculus with Analytic Geometry I (4 hrs)
- Select STA 2023 Statistical Methods I (3 hrs)

### D. Social Foundations (6 hrs)

- Select AMH 2010 U.S. History 1492-1877 (3 hrs)
- Select AMH 2020 U.S. History 1877-Present (3 hrs)
- Select PHI 2010 Introduction to Philosophy (3 hrs)

### E. Science Foundations (6 hrs)

- Select SPC 1600 Fundamentals of Oral Communication (3 hrs)
- Select ENC 1101 Composition I (3 hrs)

### F. Education Courses (9 hrs)

- Select one associated science lab: 1 hr

### G. Diversity Courses GEP

- Select one: 3 hrs

### H. Other Program Prerequisites (4 hrs)

- Select one: 3 hrs

### I. Internship I Prerequisites: EDG 4323 and at least 50% of all required mathematics courses and all methods courses must be completed before doing Internship II.

### J. Specialization Requirements (37 hrs)

- Select MAC 2311 Calculus with Analytic Geometry I (4 hrs)
- Select STA 2023 Statistical Methods I (3 hrs)

### K. Note:

- Some course waivers/substitutions may be possible. See advisor.

**Office of Clinical Experiences**

- Site courses
- At least 80% of all required mathematics courses and all methods courses must be completed prior to Internship I with a minimum grade of “C-” in all of these prerequisite courses.
- See additional requirements listed under College of Education, Office of Clinical Experiences.
UCF Degree Programs

MECHANICAL ENGINEERING (B.S.M.E.)

College of Engineering and Computer Science
Mechanical, Materials & Aerospace Engineering Department,
ENGR 307, 407-823-2416,
Fax: 407-823-0208
http://www.mmae.ucf.edu
Undergraduate Advisor: Waheeda Illasari

Admission Requirements:
All entering students are required to attend Orientation before registering for their first semester at UCF. Orientation includes engineering academic advisement and registration for first-semester UCF classes; see also the section, Orientation, found elsewhere in this catalog.

1. UCF General Education Program for (36+2 hrs)

The UCF General Education Program (GEP) is described in the section, General Education Program, found elsewhere in this catalog.

---

**Junior Year**

**Fall** (16 hrs)  **Spring** (13 hrs)

- EDF 4603 3 hrs  EDF 4214 3 hrs
- EGG 4233 2 hrs  MAE 4534 3 hrs
- MAE 4380 4 hrs  MAP 4103 3 hrs
- MIF 4404 3 hrs  MTG 4212 4 hrs

**Senior Year**

**Fall** (13 hrs)  **Spring** (12 hrs)

- ESE 3940 3 hrs  ESE 4943 12 hrs
- LAE 4361 2 hrs  
- MAD 4203 4 hrs  
- MAS 4301 3 hrs  

---

2. Common Program Prerequisites (CPP’s) (19 hrs)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

- CHS 1440 Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute) 4 hrs
- MAC 2311 Calculus with Analytic Geometry I GEP 4 hrs
- MAC 2312 Calculus with Analytic Geometry II 4 hrs
- MAC 2313 Calculus with Analytic Geometry III 4 hrs
- MAP 2302 Differential Equations 3 hrs
- PHY 2048/49L Physics for Engineers & Scientists I GEP 2 hrs
- PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
- ENC 1101 Composition I GEP
- ENC 1102 Composition II GEP
- Humanities Courses GEP
- Social Science Courses GEP
- Humanities or Social Sciences GEP

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3. Courses Required for the Major (65 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the senior design courses listed in 4, below.

- EGN 1006C Intro to the Engineering Profession 1 hr
- GGN 1111C Engineering Computer Graphics 2 hrs
- GGN 1007C Engineering Concepts & Methods 1 hr
- EGN 3310 Engineering Analysis - Statics 3 hrs
- EGN 3321 Engineering Analysis - Dynamics 3 hrs
- EGN 3343 Thermodynamics 3 hrs
- EGN 3365 Structure & Properties of Materials 3 hrs
- EGN 3373 Principles of Electrical Engining 3 hrs
- STA 3032 Probability & Statistics for Engineers GEP
- EML 3034C Modeling Methods in MAME 3 hrs
- EML 3303C Mechanical Enging Measurements 3 hrs
- EML 4312C Feedback Control 2 hrs
- EML 3500 Machine Design & Analysis 3 hrs
- EGN 3601 Solid Mechanics 3 hrs
- EML 3701 Fluid Mechanics I 3 hrs
- EML 4142 Heat Transfer 3 hrs
- EML 4220 Vibration Analysis 3 hrs
- EML 4532C Introduction to CAD/CAM 3 hrs

Select one of the following three options for your senior year to complete your BSME.

a. Energy Systems Option

- EML 3101 Thermodynamics of Mechanical Sys 3 hrs
- EML 3404C Thermo-fluids Measurements 2 hrs
- EML 4703 Fluid Mechanics II 3 hrs
- Restricted Mechanical Systems Elective 3 hrs
- Approved Electives 9 hrs

b. Mechanic Systems Option

- EMA 3012C Experimental Techniques in Mechanics & Materials 2 hrs
- EML 3262 Kinematics of Mechanisms 3 hrs
- EML 3804C Digital Control in Mechatronics 3 hrs
- Restricted Energy Systems Elective 3 hrs
- Approved Electives 9 hrs

c. Materials Option

- EMA 3012C Experimental Techniques in Mechanics & Materials 2 hrs
- EMA 4112 Thermodynamics and Kinetics of Materials 3 hrs
- EMA 3124 Design and Selection of Materials 3 hrs
- Restricted Materials Systems Elective 3 hrs
- Approved Electives 9 hrs

4. Departmental Graduation Requirements (6 hrs)

- EML 4501C Engineering Design I or EGN 4412C Interdisciplinary Design I
- EML 4502C Engineering Design II or EGN 4413C Interdisciplinary Design II

CECC encourages all engineering students to take the Fundamentals Exam during their Senior year.

5. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

6. Approved Restricted and Technical Electives

Technical electives are available in the BSME program to address specific student interests in a variety of technical areas. Restricted electives are intended to ensure that all students have a significant design experience in both mechanical and thermofluids systems. Students should consult with their Department for a list of the approved restricted and technical electives and the terms when specific courses of this type are to be offered.

7. University Minimum Graduation Requirements

- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residence at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).
### UCF Degree Programs

**Total Semester Hours Required:** 128 hrs

**Related Programs:** Aerospace Engineering, Industrial Engineering.

**Related Minors:** Space Studies, Intelligent Robotic Systems, Engineering Leadership & Management.

#### Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.
- EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The two credit hours for these courses may be substituted by an approved Mechanical Engineering technical elective for transfer students.

#### Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their Department to develop and maintain an appropriate plan of study.

### Mechanical Engineering - 128 semester hours required

#### FIRST YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Credits</th>
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<tbody>
<tr>
<td><strong>Fall</strong></td>
<td>EGN 1006C Intro to Eng Prof 1</td>
<td>1</td>
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<tr>
<td></td>
<td>*ENC 1101 English Comp I 3</td>
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<tr>
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<td>*CHS 1440 Chem Eng or 4</td>
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<tr>
<td></td>
<td>*CHM 2045 wlab</td>
<td>4</td>
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<tr>
<td></td>
<td>*MAC 2311 Calc I 4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>*ECS 2013 or 2023 Macro or Micro 3</td>
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<tr>
<td><strong>Summer</strong></td>
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<tr>
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<td>*MAC 2313 Calc III 4</td>
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<td></td>
<td>*Social Foundations 3</td>
<td>3</td>
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<tr>
<td></td>
<td>*Historical Foundations 3</td>
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#### SECOND YEAR

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<td>EGN 1111C Eng Comp Graph 2</td>
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<tr>
<td></td>
<td>*MAP 2302 Diff Equations 3</td>
<td>3</td>
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<tr>
<td></td>
<td>EGN 3310 Engr Anal-Statics 3</td>
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<tr>
<td></td>
<td>*PHY 2049 Phys Eng II wlab 4</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>STA 3023 Prob &amp; Stats/Eng 3</td>
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#### THIRD YEAR

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<td>EML 3703 Fluid Mechanics II 3</td>
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<td></td>
<td>EML 4510C Mechanics Methods 3</td>
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<tr>
<td></td>
<td>EML 3303C Mech Eng Meas 2</td>
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<td></td>
<td>*Science Foundations 2 3</td>
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#### FOURTH YEAR

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<td>EML 4510C Eng Design I or 3</td>
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<td>EGN 4412C Inter Design I 3</td>
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<td>Restricted Mechanical Systems Elect 3</td>
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<td>EML 4510C Eng Design I or 3</td>
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<td>EML 4510C Eng Design I or 3</td>
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</tr>
<tr>
<td></td>
<td>EGN 4412C Inter Design I 3</td>
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</tbody>
</table>

### Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Students should consult the MMAE website (www.mmae.ucf.edu) or with the MMAE Associate Chairman in ENGR 307 for a list of approved technical electives and for the terms when specific courses of this type are to be offered. Students should check with the MMAE Associate Chairman each semester to ensure they are making satisfactory progress toward their degree.
3. The State University System requires students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.

**Important Notice**

- Certain courses required for this major serve as key prerequisites or are offered in specific terms. Any deviation from the four-year plan should be discussed with an academic advisor. Failure to take the courses as listed may result in a delay in the date of your graduation.
- Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites.
- If you do not have a higher level programming language background you must take a course in this area prior to taking EML 3034C (‘C’ or FORTRAN recommended).
- If you are not ready to begin the Calculus sequence upon entry to the Mechanical Engineering curriculum it is imperative that you meet with your advisor to plan a personalized program of study. Mathematics and physics are cornerstones of a quality engineering program and it is important for your academic career that you proceed accordingly.

### Accelerated BS/MS Degree Program

The Mechanical, Materials, and Aerospace Engineering Department offers the Integrated Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve graduate hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

### MEDICAL LABORATORY SCIENCES (B.S.)

**Burnett College of Biomedical Sciences**

HPA2 335, 407-823-5932

[http://www.biomed.ucf.edu](http://www.biomed.ucf.edu)

**Undergraduate Program Director:** Dorilyn Hitchcock

E-mail: hitchcord@mail.ucf.edu

### Admission Requirements

#### Limited Access

Acceptance to the university does not necessarily constitute admission to the upper division medical laboratory science program.

- Separate application to the **limited access program** should be made directly to the program in the Spring of the year admission is sought. Preference will be given to those who apply prior to March 1, but applications will be accepted until the class is filled.
- UCF application must also be submitted by the program deadline. Acceptance to UCF is necessary before acceptance to the program can occur.
- Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program.

This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this, it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.

### Degree Requirements

- The Medical Laboratory Sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS - 8410 Bryn Mawr Avenue Suite 670, Chicago, IL 60663) and is approved as a training program by the state of Florida Board of Clinical Laboratory Personnel.
- Students who change degree programs and select this major must adopt the most current catalog.
- Students should complete the General Education Program, Foreign Language Admissions and the Common Program
Prerequisite Requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours.
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Medical Laboratory Sciences Program
- UCF Residency Requirement: 32 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours
- An FDLE background check and Board of Clinical Lab Personnel trainees license are required.

1. UCF General Education Program (36 + 2 hrs)
   - A. Communication Foundations: 9 hrs
   - B. Cultural Historical Foundations: 9 hrs
   - C. Mathematical Foundations: 6
     - Select MAC 1105
     - Select STA 2023
   - D. Social Foundations: 6 hrs
   - E. Science Foundations: 6 hrs
     - Select BSC 2010C
     - Select CM 2045C

2. Common Program Prerequisites (25 hrs)
   - BSC 2010C: General Biology and Lab (GEP)
   - CHM 2045C, 2046 Chemistry Fundamentals I&II w/labs (GEP) 4 hrs
   - STA 2023: Statistical Methods I (GEP) 4 hrs
   - ZOO 3733C: Human Anatomy and Lab* 4 hrs
   - CHM 2210, 2211: Organic Chemistry I&II w/labs 8 hrs
   - MCB 3020C: General Microbiology* 5 hrs
   - PCB 3703C: Human Physiology and Lab* 4 hrs
   * See Transfer Notes

3. Core Requirements (63 hrs)
   - MLS 3220C: Clinical Microscopy with lab 3 hrs
   - MLS 4625: Advanced Clinical Chemistry I/lab 3/1 hrs
   - MLS 4630: Advanced Clinical Chemistry II 3 hrs
   - PCB 3233: Immunology with Lab 3/1 hrs
   - MLS 4430C: Clinical Parastrology 2 hrs
   - MLS 3305: Hematology with Lab 3/1 hrs
   - MLS 4505C: Immunodiagnostics 3 hrs
   - MLS 4910: Intro to Clinical Research 1 hr
   - MLS 4550: Clinical Immunohematology 4 hrs
   - MLS 4460C: Clinical Pathogenic Microbiology 5 hrs
   - MLS 4334: Hemostasis 3 hrs
   - MLS 4933: Medical Technology Seminar 1 hrs
   - MLS 3775: Concepts in Education/Management 3 hrs
   - MLS 4830C: Interpretive & Practical Clinical Chem 4 hrs
   - MLS 4831C: Interpretive & Practical Immunohematology 4 hrs
   - MLS 4832C: Interpretive & Practical Hematology 4 hrs
   - MLS 4833C: Diagnostic Microbiology 4 hrs
   - CGS 2100C: Computer Fundamentals for Business 3 hrs
   - BSC 3403C: Quantitative Biological Methods 4 hrs

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (126 hrs)
   - A minimum 2.5 overall GPA is required for clinical assignment.
   - The Degree in Medical Laboratory Sciences will be awarded upon satisfactory completion of the University’s didactic component and the clinical component in affiliated hospital laboratories.
   - Upon receiving the degree in Medical Laboratory Sciences, the graduate will be eligible to write a national certification examination and then qualify for State Licensure.
   - Students must earn a grade of "C" (2.0) or higher in required courses with a minimum 2.5 overall GPA for graduation

6. Electives none

7. Foreign Language Requirements (0-8 hrs)
   - Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: none

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - 25% of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 126 hrs

Related Programs: Molecular Biology and Microbiology, Biology, Chemistry

Related Minors: Molecular Biology and Microbiology, Biology, Chemistry

Transfer Notes:
- Community College Equivalencies
- Human Anatomy and Physiology I & II
  (BSC 2093C and 2094C) 8 hrs
- General Microbiology/Lab (MCB 3020C) 4 hrs

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen

Freshman Year
Fall  16 hrs  Spring  17 hrs
ENC 1101  3  ENC 1102  3
MAC 1105  3  BSC 2010C  4
SPC 1600  3  CHM 2046  3
CHM 2045C  4  CHM 2046L  1
CGS 2100C  3  ANT 2000 or SYG 2000
or PSY 2012
STA 2023  3

Sophomore Year
Fall  16 hrs  Spring  17 hrs
POS 2041 or ECO 2013  3  CHM 2211  3
CHM 2210  3  CHM 2211L  2
ZOO 3733C  4  MCB 3020C  5
EUH 2200 or HUM 2210  3  PCB 3703C  4
or AMH 2010  3  EEU 2001 or 3
MUL 2010 or THE 2000  3  HUM 2230 or
or REL 2300 or PHI 2010  3  AMH 2020

Junior Year
Fall  13 hrs  Spring  16 hrs
MLS 3220C  3  MLS 3305/L3/1
MLS 4625/L  3/1  MLS 4630  3
MLS 4635/L  3/1  MLS 4460C  5
PCB 3233/L  3/1  MLS 4430C  2
MLS 4550  4

Summer  6 hrs
CGS 1060  3
MLS 4334  3

Senior Year
Fall  16 hrs  Spring  12 hrs
MLS 4830C  4  MLS 4912  1
MLS 4831C  4  MLS 4505C  3
MLS 4832C  4  MLS 4933  1
MLS 4833C  4  MLS 3705  3
BSC 3403C  4

MODERN LANGUAGE COMBINATION (B.A.)

College of Arts and Humanities
Department of Modern Languages & Literatures,
CNH 523
http://pegasus.cc.ucf.edu/~forlang
E-mail:modernlanguages@ucf.edu
P. Giordano, 407-823-2472

Admission Requirements
- Placement in Language courses
- Placement in language courses is based on one year of high
school language being equivalent to one semester of college work. Students must consult an advisor.

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Language combinations may consist of French, German or Spanish as a first language and any of those three as a second language, as well as Italian.
- 24 credits in the first language and 15 credits in the second must be taken at the 3000 level or above.
- At least 33 hours must be taken in Modern Language courses taught in the target language.
- Students must earn at least a “C” (2.0) in each upper division foreign language course.
- Co-op or internship credit cannot be used in this major.
- Departmental Requirement: Each student must adopt the most current catalog.
- Language credit by exam will not be given in courses lower in level than those in which student by Examination in literature courses only.
- Students must see their departmental advisor for counseling and schedule approval before registering.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program

**(36 hrs)**

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 3 hrs
   - Select MGF 1106 Finite Mathematics (may substitute a higher level math)
   - Prefer CGS 1060C Intro to Computer Sci or STA 1060C Statistics Using Excel
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

### 2. Common Program Prerequisites

**(0-14 hrs)**

Completion of Intermediate level of proficiency.

#### 3. Core requirements-first language

**(24 hrs)**

(French, German or Spanish)

<table>
<thead>
<tr>
<th>Course</th>
<th>SEM HRS</th>
</tr>
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<tbody>
<tr>
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</tr>
<tr>
<td>FRE 4422*</td>
<td>3</td>
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<td>GER 4202*</td>
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<td>b. Oral Communication (select one) 3 hrs</td>
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<tr>
<td>SPN 3760*</td>
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<tr>
<td>FRE 3780*</td>
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<td>FRE 4421*</td>
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<tr>
<td>GER 4201*</td>
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</tbody>
</table>

* A native or near-native speaker must substitute an alternate upper division language course in consultation with a departmental advisor.

c. Literature (select one sequence) 6 hrs
   - SPW 3100 & 3101 Survey of Spanish Literature
   - SPW 3130 & 3131 Survey of Latin American Literature
   - FRW 3100 & 3101 Survey of French Literature
   - GEW 3100 & 3101 Survey of German Literature

d. Linguistics (select one) 3 hrs
   - FRE 3780 French Phonetics and Diction
   - FOL 3730 Romance Philology
   - GER 3780 German Phonetics and Diction
   - SPN 4801 Spanish Morphology
   - SPN 4800 Spanish American Syntax
   - SPN 4780 Spanish Phonetics

e. Restricted Electives in the first language (chosen with departmental advisor) 9 hrs

#### 4. Core requirements-second language

**(15 hrs)**

(French, German, Spanish, or Italian)

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<td>SPN 3420, FRE 3420, GER 3420, ITA 3420</td>
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<tr>
<td>b. Advanced Oral Communication (select one) 3 hrs</td>
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<td>SPN 3760, FRE 3760, GER 3760, or ITA 3760</td>
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<tr>
<td>c. Restricted Electives in the second language (chosen with departmental advisor) 9 hrs</td>
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#### 5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or higher in at least 39 hrs of upper division Modern Language courses
- Students are required to satisfactorily complete a departmental exit exam
- Computer Competency met by CGS 1060C or equivalent

#### 6. Foreign Language Requirements

**(0-16 hrs)**

- Admission: Met by Graduation requirements.
- Graduation: Met by degree program requirements (four semesters or proficiency).

#### 7. Electives

- (variable)
- Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

#### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### Total Semester Hours Required

**120 hrs**

### Related Programs: French, Spanish

#### Related Minors

- French, German, Italian, Judaic Studies, Latin American Area Studies, Spanish

#### Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated by the department chair for equivalency credit. The student must provide all supporting information.

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

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<td>SPN 3760 Spanish Composition</td>
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<td>SPN 3420 Spanish Language</td>
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<td>GER 4201 German Composition</td>
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<td>SPN 3760 Spanish American Syntax</td>
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**Sophomore Year**

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**Spring**

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**Junior Year**

**Fall**

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**Senior Year**

**Fall**

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<td>GER 4201 German Composition</td>
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**MOLECULAR BIOLOGY AND MICROBIOLOGY (B.S.)**

Burnett College of Biomedical Sciences  
HPA2  335, 407-823-5932  
Molecular Biology and Microbiology Department  
http://www.biolmed.ucf.edu  
Chair: P.E. Kolattukudy

Admission Requirements  
none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System.
- Students should consult with a departmental advisor.
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.

1. UCF General Education Program  
(Note: Certain courses must be selected in GEP for this major, bringing the total GEP hours to more than 36.)

(81-91 hrs)

2. Common Program Prerequisites  
(16 hrs)

3. Core Requirements  
(33 hrs)

4. Upper Division Restricted Elective  
(7 courses minimum)

5. Departmental Exit Requirements  
(81-91 hrs)

6. Electives  
(variable)

7. Foreign Language Requirements  
(0-8 hrs)

8. University Minimum Exit Requirements  

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required  
120 hrs

Related Programs: Biology, Chemistry, Medical Lab Science

Related Minors: Biology, Chemistry

Transfer Notes:  
Students who begin a two semester sequence course (e.g. General Chemistry) at a community college are strongly encouraged to com-
University of Central Florida

Admission Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor and the Prehealth Professions Advisement Office in HPA2 0124.
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program (38-39 hrs)
   (Note: Certain courses must be selected in GEP for this major, bringing the total GEP hours to more than 36.)
   - A. Communication Foundations
   - B. Cultural Historical Foundations
   - C. Mathematical Foundations
   - D. Social Foundations
   - E. Science Foundations

2. Common Program Prerequisites (16 hrs)
   - BSC 2010C Biology I
   - BSC 2011C Biology II
   - CHM 2045C, 2046, General Chemistry I, II, + Lab
   - PHY 2048, 2049, 2048L, 2049L
   - CHM 2210, 2211, Organic Chemistry I, II, + Lab
   - MAC 2311 Calculus with Analytical Geometry I

3. Core Requirements (35 hrs)
   - Life Sciences
   - Physics
   - Math**, Statistics, Computer

4. Upper Division Restricted Electives (19 hrs min)
   (7 courses minimum)
   (Seven courses, no more than two may be taken outside the Molecular Biology and Microbiology Department and at least two must be a laboratory course. No more than two may be MLS courses. Enrollment in some MLS courses is restricted. Check with advisor before enrolling. Only three hours of Honors thesis will count towards restrictive elective requirement.)
   Students in the preprofessional concentration of the Molecular Biology and Microbiology program are recommended to choose from the following restricted electives:
### MOLECULAR BIOLOGY AND MICROBIOLOGY-UCF/USF Accelerated Medical School Program (B.S.) (See “Accelerated Programs”)

### MOTION PICTURE TECHNOLOGY

(See Film)

### MUSIC (B.A.)

College of Arts and Humanities  
Department of Music, CHN 205A  
http://www.cas.ucf.edu/music/  
E-mail: music@mail.ucf.edu

Eugene Montague, E-mail: emontagu@mail.ucf.edu, 407-823-1145  
Scott Warfield, E-mail: swarfield@mail.ucf.edu, 407-823-1144

### Requirements for Admission

- Each student must complete and pass an interview with either a B.A. advisor or the Department Chair.

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement; at least 25 hours must be taken from the UCF Music department
- Each student must complete a faculty approved capstone project.
- Co-op or internship credit cannot be used in this major
- Students should consult with a departmental advisor for course selections
- Courses designated in 1 (General Education Program) are usually spread over the full four years
- Courses designated in 2 (Common Program Prerequisites) are

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**UCF Degree Programs**

**MLS 4334**  
Hemostasis  
3 hrs

**MLS 4430C**  
Clinical Parasitology  
2 hrs

**MLS 4505C**  
Immunodiagnostics  
3 hrs

**PCB 3703C**  
Human Physiology  
4 hrs

**PCB 4XXX**  
Genetics II  
3 hrs

**PCB 4805**  
Endocrinology  
3 hrs

**PCB 5238**  
Immunobiology  
3 hrs

**ZOO 3701C**  
Human Gross Anatomy  
2 hrs

**ZOO 3733C**  
Human Anatomy  
4 hrs

**ZOO 4603C**  
Vertebrate Embryology  
5 hrs

**ZOO 4704C**  
Clinical Neuroanatomy and Neuroscience  
4 hrs

**ZOO 4774**  
Neurobiology  
3 hrs

**ZOO 4753C**  
Vertebrate Histology  
4 hrs

**ZOO 4XXX**  
Human Clinical Embryology  
3 hrs

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### 5. Departmental Exit Requirements

To be eligible for a major in Molecular Biology and Microbiology, Preprofessional Concentration:

- A student must complete all coursework in the baccalaureate curriculum as shown, and, earn a GPA of at least 2.0 for all coursework in the Core and Restricted Electives.
- Independent study, directed research, or similar credit may not be used as a Restricted Elective.
- A minimum of 20 hours must be taken at UCF in the department of the major.
- Students will be required to pass a comprehensive test during their last semester.

### 6. Electives

(variable)

### 7. Foreign Language Requirements

(0-8 hrs)

**Admissions:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** none

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

**Total Semester Hours Required**  
120 hrs

**Related Programs:** Biology, Chemistry, Medical Lab Science

**Related Minors:** Biology, Chemistry

**Transfer Notes:**  
Students who begin a two semester sequence course (e.g. General Chemistry) at a community college are strongly encouraged to complete the sequence before transferring. If it will not be possible to complete the sequence at the community college, the student should postpone beginning the course until enrolling at UCF. Students may elect to take Human Anatomy (ZOO 3733C) and Human Physiology (PCB 3703C) at UCF in order to meet the University’s requirement that students complete 48 semester hours of upper division (3000/4000 level) credit. Students meeting the Human Anatomy and Physiology I & II requirement at the community college (lower division) level must take an additional 8 hours of upper division coursework at UCF.

**Honors in the Major**

- Application and admission through the department and the Burnett Honors College.
- Fulfill University requirements for Honors in the Major and maintain a 3.2 UCF GPA; 3.5 in the major; 3.2 cumulative average for graded upper division courses regardless of the institution.
- Complete BSC 3404H “Quantitative Biological Methods” with a grade of B or better (4 credits).
- Complete MCB 4970H “Honors Thesis” with a grade of B or better and successfully complete the oral defense of the Honors Thesis (3 credits).

**Tentative Course Schedule for Entering Freshmen**

**Freshman Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>13 hrs</th>
<th>Spring</th>
<th>16 hrs</th>
</tr>
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<tbody>
<tr>
<td>ENC 1101</td>
<td>3</td>
<td>ENC 1102</td>
<td>3</td>
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<tr>
<td>PSY 2012 or SYG 2000</td>
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<td>SLS 2311C</td>
<td>2</td>
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<tr>
<td>or ANT 2000</td>
<td>3</td>
<td>CHM 2046</td>
<td>3</td>
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<tr>
<td>CHM 2045C</td>
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<td>CHM 2048L</td>
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<tr>
<td>MAC 1105 or elective</td>
<td>3</td>
<td>BSC 2010C</td>
<td>4</td>
</tr>
<tr>
<td>or HUM 2210</td>
<td>3</td>
<td>MAC 1114 or elective</td>
<td>3</td>
</tr>
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</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>14 or 15 hrs</th>
<th>Spring</th>
<th>15 hrs</th>
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<tr>
<td>CHM 2210</td>
<td>3</td>
<td>CHM 2211</td>
<td>3</td>
</tr>
<tr>
<td>MCB 2002C</td>
<td>5</td>
<td>CHM 2211L</td>
<td>2</td>
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<tr>
<td>MAC 2211 or MAC 2253</td>
<td>4/3</td>
<td>STAT 2023 or CGS 1060C</td>
<td>3</td>
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<tr>
<td>EUH 2010 or AMH 2010</td>
<td>3</td>
<td>BSC 3403</td>
<td>4</td>
</tr>
<tr>
<td>or WOH 2012 or HUM 2210</td>
<td>3</td>
<td>EUH 2001 or AMH 2020</td>
<td>3</td>
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</table>

**Senior Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>15/16 hrs</th>
<th>Spring</th>
<th>12/15 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCB 4414</td>
<td>3</td>
<td>Restricted Elective</td>
<td>3/4</td>
</tr>
<tr>
<td>BCH 4053</td>
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<td>Restricted Elective</td>
<td>3/4</td>
</tr>
<tr>
<td>Restricted Elective</td>
<td>3</td>
<td>Restricted Elective</td>
<td>3/4</td>
</tr>
<tr>
<td>Restricted Elective</td>
<td>3/4</td>
<td>SPC 1600 or SPC 1016</td>
<td>3</td>
</tr>
</tbody>
</table>
| Cultural/Historical   | 3          | *recommend SPC 1016 | }
212

UNIVERSITY OF CENTRAL FLORIDA
2006-2007 Undergraduate Catalog

UCF Degree Programs

usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   (see General Education Program for detailed information)
   A. Communication Foundations
      9 hrs
   B. Cultural and Historical Foundations
      Select one course from 1.B.1 list
      Select MUS 4212 History and Literature II
      Select one course from 1.B.1 or 1.B.2 list
   C. Mathematical Foundations
      Prefer MGF 1106 Finite Mathematics
      (may substitute a higher level math)
   D. Social Foundations
      6 hrs
   E. Science Foundations
      6 hrs

2. Common Program Prerequisites (20-24 hrs)
   MUT 1111*  Music Theory IA  2 hrs
   MUT 1112*  Music Theory IB  2 hrs
   MUT 1241*  Ear Training & Sight Singing IA  1 hr
   MUT 1242*  Ear Training & Sight Singing IB  1 hr
   MUT 2116*  Music Theory IA  2 hrs
   MUT 2117*  Music Theory IB  2 hrs
   MUT 2246*  Ear Training & Sight Singing IA  1 hr
   MUT 2247*  Ear Training & Sight Singing IB  1 hr
   MUN XXXX  Ensembles  4 hrs
   MVK 1111-2112-3131-4141*  Class Piano I-II-III-IV  0-4 hrs
   MUS 1010  Music Forum (four semesters)  0 hrs
   MUH 4211 History and Literature I  3 hrs
   MUH 4212 History and Literature II  3 hrs

   *See Transfer Notes for possible substitutes

3. Core Requirements (6 hrs)
   MUS 1010  Music Forum (Forum)  0 hrs
   MUS 3571  20th Century Musical Analysis  3 hrs
   MVX XXXX  Secondary Performance  CPP
   MUN XXXX  Ensembles  CPP
   MUH 4211 History and Literature I  3 hrs
   MUH 4212 History and Literature II  3 hrs

4. Restricted Electives-Music (12-16 hrs)
   Choose from any MUX 3XXX or 4XXX (No more than 6 of these credits can be taken as MUN courses.)

5. Restricted Electives-Non-Music (9 hrs)
   Select primarily from upper-level courses, with departmental advisor's approval. Prefer courses within related arts and humanities departments including Art, Digital Media, English, Film, Modern Languages, History, Philosophy, and Theater.

6. Electives  (variable)
   Select primarily from upper-level courses. A maximum of six (6) hours may be taken in music. All other hours must be taken outside the department.

7. Minor Ensemble Participation
   - If minor ensemble is taken at UCF, the two semester hours of credit must be completed in two separate semesters
   - If minor ensemble credits are transferred to UCF, each remaining credit transfers as a free elective.
   - Minor ensembles include: Brass, Percussion, Piano, String, Vocal (except Opera Workshop), Woodwind, and Jazz Lab

8. Departmental Exit Requirements (3 hrs)
   - MUS 4XXX Capstone/Senior Thesis Project  3 hrs
   - Computer Competency met by STA 1060C, or departmental examination

9. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement
   Graduation: Proficiency equivalent to two semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examination in foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

10. University Minimum Exit Requirements
    - A 2.0 UCF GPA
    - 48 quarter hours completed after CLEP awarded
    - 48 semester hours of upper division credit completed
    - 30 of the last 36 hours of course work must be completed in residence at UCF
    - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
    - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required  120 hrs

Related Programs: Music Education, Music (BM), Theatre, Musical Theatre
Related Minors: Music, Theatre

Transfer Notes:
   - Courses taken at community colleges do not substitute for Upper Division courses
   - Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
   MUT 1111*, MUT 1112*: May use MUT 1121, MUT 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
   MUT 1241*, MUT 1242*: May use MUT 1221, MUT 1222, or MUT 1261, MUT 1262 or MUT 1271, MUT 1272.
   MUT 2116*, MUT 2117*: May use MUT 2126, MUT 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective.
   MUT 2246*, MUT 2247*: May use MUT 2226, MUT 2227, or MUT 2276, MUT 2277, MUT 2278.
   MVK 1111, MVK 2121*: May use MVK 1112, MVK 2122 or MVK 1211, MVK 2221

Suggested Plan of Study:
   One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

   Freshman Year
   Fall
   ENC 1101 Composition I  3
   HUM 2201* reg. 1B1-GEP  3
   MGF 1106* reg. 1C1-GEP  3
   MUN XXXX Ensembles  4
   MUH 4211 History and Literature I  3
   Spring
   ENC 1102 Composition II  3
   HUM 2230* reg. 1B2-GEP  3
   STA 1060C* reg. 1B2-GEP  3
   MUN XXXX Ensembles  4
   MUH 4212 History and Literature II  3
   Suggested Plan of Study:
   One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

   Sophomore Year
   Fall
   POS 2041* reg. 1D1-GEP  3
   PSC 1121* reg. 1E1-GEP  3
   MVK 3143* reg. 2-CPP  1
   MUS 1010 Music Forum  0
   Spring
   ANT 2000* reg. 1D2-GEP  3
   MUS 1011 Music Theory IA  2
   MUS 1241 Ear Train Sing IA  1
   MVK 1111 Class Piano I  1
   Junior Year
   Fall
   ENC 1101 Composition I  3
   HUM 2201* reg. 1D1-GEP  3
   MGF 1106* reg. 1D2-GEP  3
   MUN XXXX Ensembles  4
   MUH 4211 History and Literature I  3
   Spring
   ANT 2000* reg. 1D2-GEP  3
   MUS 1011 Music Theory IA  2
   MUS 1241 Ear Train Sing IA  1
   MVK 1111 Class Piano I  1
   MVK 1112* reg. 2-CPP  1
   MVK 1211 Class Piano II  1
   MVK 1212 Class Piano III  1
Must meet the College of Education’s requirements for admission on file in the University admissions office. Passing scores on all four parts of the College Level Academic Skills Test (CLAST) or the General Knowledge Test of the Florida Teacher Certification System are required.

**Music Education (B.M.E.)**

**Department of Music, CNH 205A**

http://www.cas.ucf.edu/music/

E-mail: music@mail.ucf.edu

A. Holcomb, 407-823-4180, Fax 407-823-3378

E-mail: aholcomb@mail.ucf.edu

Admission Requirements - Music Education-Pending

- Audition. To be accepted into Music Education-Pending, a student must demonstrate advanced proficiency by performing compositions representing a variety of musical periods (baroque, classical, romantic, contemporary).
- Memorization is required for pianists and vocalists.
- Accompanists are provided by special request only.
- Each candidate must bring his/her own audition music. Accompanists are provided by special request only.
- Memorization is required for pianists and vocalists.
- The audition will serve as a placement exam for accepted candidates.
- Demonstrate professional, vocal, and aural skill proficiency in an interview with a Music Education faculty.

Admission Requirements

- Music Education (Professional Program) Students who wish to be accepted into the Music Education Professional Program must complete the following requirements:
  - Have a minimum overall GPA of 2.5 and a grade of "C" (2.0) or better in each performance, education, and music education course.
  - Have on file in the University admissions office passing scores on all 4 parts of the College Level Academic Skills Test (CLAST) or the General Knowledge Test of the Florida Teacher Certification System.
  - Must meet the College of Education’s requirements for admission to Internships I and II (see College of Educaion, Office of Clinical Experiences).
  - Pass the Music Education Proficiency (taken during completion of Performance II)

**Note:** Students who change degree programs and select this major must adopt the most current catalog.

Degree Requirements

**1. UCF General Education Program (36 hrs)**

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>ENC 1101</td>
<td>Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>ENC 1102</td>
<td>Composition II</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>SPC 1600</td>
<td>Fundamentals of Oral Communication</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Cultural-Historical Foundations</td>
<td>ANH 2010</td>
<td>U.S. History 1492-1877</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>ANH 2020</td>
<td>U.S. History 1877-Present</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>MUP 4212</td>
<td>History and Literature</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>STA 1060C</td>
<td>Finite Mathematics</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>Select one:</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>STA 2041C</td>
<td>Principles of Statistics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>POS 2041</td>
<td>American National Government</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>PSY 2012</td>
<td>General Psychology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>PSC 1211</td>
<td>Physical Science</td>
<td>3 hrs</td>
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<tr>
<td></td>
<td>Select one:</td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>MUP 4211</td>
<td>The Human Species or</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Select laboratory component under Section 2.

**2. Common Program Prerequisites (19 hrs)**

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>A. Communications</td>
<td>ENC 1101</td>
<td>Composition I</td>
<td>3 hrs</td>
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<tr>
<td></td>
<td>ENC 1102</td>
<td>Composition II</td>
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<tr>
<td></td>
<td>MUC 1600</td>
<td>Fundamentals of Oral Communication</td>
<td>3 hrs</td>
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<tr>
<td>B. Humanities</td>
<td>PHI 2010</td>
<td>Introduction to Philosophy</td>
<td>3 hrs</td>
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<tr>
<td></td>
<td>MUH 4212</td>
<td>History and Literature</td>
<td>3 hrs</td>
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<tr>
<td>C. Mathematics</td>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>3 hrs</td>
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<tr>
<td></td>
<td>MGF 1106</td>
<td>Finite Mathematics</td>
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One of the following (per GEP)

- STA 1060C Basic Statistics Using MS Excel
- STA 1060C Basic Statistics Using MS Excel
- STA 1060C Principles of Statistics

- Select one:
  - AST 2022 Astronomy
  - GLY 1030 Geology and Its Applications

- Select one associated science lab
  - BSC 1055L Biological Principles Laboratory
  - BSC 121L Physical Science Laboratory

<table>
<thead>
<tr>
<th>Category</th>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>D. Social Science/History</td>
<td>AMH 2010</td>
<td>U.S. History 1492-1877</td>
<td>3 hrs</td>
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<td></td>
<td>AMH 2020</td>
<td>U.S. History 1877-Present</td>
<td>3 hrs</td>
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<tr>
<td></td>
<td>POS 2041</td>
<td>American National Government</td>
<td>3 hrs</td>
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<tr>
<td></td>
<td>PSY 2012</td>
<td>General Psychology</td>
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<tbody>
<tr>
<td>E. Science</td>
<td>PSC 1121</td>
<td>Physical Science</td>
<td>3 hrs</td>
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One of the following (per GEP)

- ANT 2511 The Human Species
- BSC 1055L Biological Principles
- Select one:
  - AST 2022 Astronomy
  - GLY 1030 Geology and Its Applications

- Select one associated science lab
  - BSC 1055L Biological Principles Laboratory
  - BSC 121L Physical Science Laboratory

<table>
<thead>
<tr>
<th>Category</th>
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<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>F. Education Courses</td>
<td>EDF 2005</td>
<td>Introduction to Education</td>
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<td></td>
<td>ESE 3940</td>
<td>Internship I - Secondary</td>
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<tr>
<td></td>
<td>TSL 4080</td>
<td>Teaching LEP Children</td>
<td>3 hrs</td>
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<tr>
<td></td>
<td>EDF 2701</td>
<td>Teaching Diverse Populations</td>
<td>3 hrs</td>
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<tr>
<td></td>
<td>EME 2040</td>
<td>Intro to Educational Technology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>G. International/Diversity Courses</td>
<td>EME 2040</td>
<td>Intro to Educational Technology</td>
<td>3 hrs</td>
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<table>
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<tr>
<th>Category</th>
<th>Course Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>H. Other Program Prerequisites (27 hrs)</td>
<td>MUN XXXX</td>
<td>Major Ensembles (4 semesters)</td>
<td>4 hrs</td>
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<tr>
<td></td>
<td>MUP 1111</td>
<td>Music Theory IA</td>
<td>2 hrs</td>
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<td></td>
<td>MUP 1112</td>
<td>Music Theory IB</td>
<td>2 hrs</td>
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<tr>
<td></td>
<td>MUP 2116</td>
<td>Music Theory IIA</td>
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<td>MUP 2117</td>
<td>Music Theory IIB</td>
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<td>MUP 1241</td>
<td>Ear Training &amp; Sight Singing IA</td>
<td>1 hr</td>
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<tr>
<td></td>
<td>MUP 1242</td>
<td>Ear Training &amp; Sight Singing IB</td>
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<td></td>
<td>MUP 2246</td>
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<td></td>
<td>MUP 2247</td>
<td>Ear Training &amp; Sight Singing IIB</td>
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<tr>
<td></td>
<td>MVK 1111</td>
<td>Class Piano I</td>
<td>1 hr</td>
</tr>
<tr>
<td></td>
<td>MVK 2121</td>
<td>Class Piano II</td>
<td>1 hr</td>
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<td>MVK 3131</td>
<td>Class Piano III</td>
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<td></td>
<td>MVK 4141</td>
<td>Class Piano IV</td>
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<td></td>
<td>MVx XXXX</td>
<td>Performance (4 semesters)</td>
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<thead>
<tr>
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<tbody>
<tr>
<td>I. Core Requirements (37 hrs)</td>
<td>MUN XXXX</td>
<td>Major Ensembles (2 semesters)</td>
<td>2 hrs</td>
</tr>
<tr>
<td></td>
<td>MUS 1010</td>
<td>Music Forum (6 semesters)</td>
<td>0 hrs</td>
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<tr>
<td></td>
<td>MV XXXX</td>
<td>Performance (2 semesters)</td>
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<tr>
<td></td>
<td>MUG 3104</td>
<td>Basic Conducting</td>
<td>2 hrs</td>
</tr>
<tr>
<td></td>
<td>MUP 4211</td>
<td>History &amp; Literature</td>
<td>3 hrs</td>
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<tr>
<td></td>
<td>MUP 4212</td>
<td>History &amp; Literature II</td>
<td>3 hrs</td>
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<td></td>
<td>MUE 2440</td>
<td>String Techniques</td>
<td>1 hr</td>
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<td></td>
<td>MUE 2450</td>
<td>Woodwind Techniques</td>
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<td></td>
<td>MUE 2460</td>
<td>Brass Techniques</td>
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<td></td>
<td>MUE 2470</td>
<td>Percussion Techniques</td>
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<td></td>
<td>EDF 2414</td>
<td>Classroom Learning Principles</td>
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<td></td>
<td>EDF 4603</td>
<td>Analysis of Critical Issues in Education</td>
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<td></td>
<td>EDF 4323</td>
<td>Professional Teaching Practices</td>
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<td>TSL 4080</td>
<td>Teaching LEP Children</td>
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<td>RED 4043</td>
<td>Teaching Reading in the Content Area</td>
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<td></td>
<td>ESE 3940</td>
<td>Internship I - Secondary</td>
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<tr>
<td></td>
<td>MUE 4311</td>
<td>Elementary School Music Methods</td>
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<td>MUE 4330</td>
<td>Secondary School Music Methods</td>
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<tbody>
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<td>J. Special Requirements (15 hrs)</td>
<td>MVV 1111</td>
<td>Voice (or proficiency)</td>
<td>0-1 hr</td>
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<td></td>
<td>MUG 3302</td>
<td>Instrumental Conduct &amp; Materials</td>
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<td></td>
<td>MUG 4480C</td>
<td>Marching Band Techniques</td>
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<td></td>
<td>ESE 4943</td>
<td>Internship II - Secondary</td>
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<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>K. Program B Choral</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

213
6. Internships

Internship I: Students must have on file in the University admissions office passing scores on 4 parts of the CLAST and have passed 4 of the 5 music proficiency/comprehensive exams (including the Music Education) before enrolling in Internship I. Students are assigned to a school with certified Supervising Teachers under the direction of a University Coordinator. During the semester, students spend two full days per week (Tuesday and Thursday) in the field with half the time in an Elementary setting and half in a Secondary school setting. Components of the experience include directed observation, collaborative planning, guided participation, and collaborative evaluation. Students are expected to provide their own transportation to assigned locations.

Internship II: Students must have on file in the University admissions office passing scores on 4 parts of the CLAST; successfully completed Internship I; and have passed all proficiency/comprehensive exams before enrolling in Internship II. Students are assigned to a school with certified Supervising Teachers under the direction of a University Coordinator five days a week for the entire semester, normally during the student's last semester. Students are permitted to enroll in other classes only with the consent of the departmental advisor. The semester of student teaching is divided into four types of activities: observing, assisting, teaming, and teaching. Student teachers become involved with children as rapidly as possible, and gradually assume a full responsibility for the classroom to which they have been assigned. As the experience draws to an end, the process should be reversed and supervising teachers take back their classes at convenient program breaks. Students are expected to provide their own transportation to assigned locations.

7. Special Non-Course Requirements

Note: Contact the Music Education Advisor for details

- Music Education Proficiency Exam - take during the completion of the fourth semester of study, or after completing Performance II, Ensemble Participation

Ensemble Participation

- Selected from University Chorus, Symphony Orchestra, Concert Band, Marching Band, and Wind Ensemble. Four hours of Jazz Lab may be used as a Major Ensemble credit
- Ensemble assignment is by the Ensemble directors
- Transfer students must take Major Ensemble during each of their remaining semesters, except when enrolled in Internship II
- Native UCF students must take each Ensemble credit in a separate semester
- Students taking a Performance course must concurrently take an appropriate major ensemble if accepted

Recitals

- Students must complete a faculty-approved public recital (optional for students in the Elementary School Music Specialization)
- Maintain a Professional Portfolio. The portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.

CMENC Membership

- Active participation in CMENC is expected

Music Education Forums

- Attendance at all Music Education Forums (except during Internship I and II) is expected

Advising

- Consult with the music education advisor for course selection

Public School Partnerships

- Students are expected to be in public schools on a regular basis. Students are expected to observe, assist, and teach in variety of grade levels and settings (e.g., urban, suburban, general, choral, instrumental) before taking Internship I.

8. Departmental Exit Requirements

- Pass the Professional Education and Subject Area subtests of the Florida Teacher Certification Examination.
- A minimum GPA of 2.5 is required in all courses within the major.
- A grade of "C" (2.0) or better in each music course.
- A grade of "B" (3.0) or better in each performance, education, and music education course.
- Computer competency is met through MUS 2360C.
- Departmental Residency Requirement: at least 25 hours must be taken from the UCF Music Department. In addition, music education students must complete their last two semesters of required performance, recital, and Internship II while attending UCF

9. Foreign Language Requirements (0-8 hrs)

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation

Graduation: None

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits admitted

11. Total Semester Hours Required 134 hours

Related Programs: Music, Music (BFA), Theatre

Related Minors: Music, Theatre

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Students transferring to UCF must pass the Music Education Proficiency in order to be accepted as a Music Education major
- Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Common Program Prerequisites sections because the revision of State Board of Education Rule 6A-5.066 has made programs highly prescriptive, which may result in additional coursework to satisfy degree requirements.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- MUE 2040*: May use equivalent course or proficiency
- MUT 1111*, MUT 1112*: May use MUT 1121, 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective
- MUT 1241*, MUT 1242*: May use MUT 1221, 1222, or MUT 1261, 1262, or MUT 1271, 1272
- MUT 2116*, MUT 2117*: May use MUT 2126, 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective
- MUT 2246*, MUT 2247*: May use MUT 2226, 2227, or MUT 2266, 2267, or MUT 2276, 2277
- MVK 1111, 2121*: May use 1112, 2122 or MVK 1211, 2221

Note: Education majors are required to take six hours (in addition to
EDG 2701) that have an international or diversity focus. While native UCF students complete this requirement as part of the GEP, transfer students must take appropriate courses that have been so designated by their previous institution.

**Note:** Students must take a Natural Science class with the lab and should select a course that fulfills the GEP requirement.

**MUSIC PERFORMANCE (B.M.)**

College of Arts and Humanities

Department of Music, CNH 205

http://www.cas.ucf.edu/music/

E-Mail: music@mail.ucf.edu

John Almeida, E-mail: hbbja@msn.com; 407-823-2510

George Weremchuk, E-mail: gweremch@mail.ucf.edu

407-823-5261; Fax 407-823-3378

**Audition Requirements for Admission**

- Each student must audition and demonstrate advanced proficiency by performing compositions representing a variety of musical periods
- Memorization is required for pianists and vocalists
- Accompanists are provided by special request only
- Each candidate must bring his/her own audition music
- The department will only provide large instruments such as a tuba, string bass, or timpani for these auditions
- The audition will serve as a placement examination for accepted candidates
- In addition, composition students must submit a portfolio of compositions representing works in small and/or large forms
- The audition and examination scores will serve as a placement examination for accepted candidates

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- At least 65 hours of credit must be earned in music courses
- Departmental Residency Requirement; at least 30 hours must be taken from the UCF Music department
- Performance and composition students must present two faculty-approved public recitals
- Students should consult with a departmental advisor for course selection
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

### 1. UCF General Education Program (36 hrs)

(see General Education program for detailed information)

<table>
<thead>
<tr>
<th>Section</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Communication Foundations</td>
<td>9</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td></td>
</tr>
<tr>
<td>Select one course from L.B.1 list</td>
<td>3</td>
</tr>
<tr>
<td>Select MUF 4212 History and Literature IIA</td>
<td>3</td>
</tr>
<tr>
<td>Select one course from L.B.1 or L.B.2 list</td>
<td>3</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td></td>
</tr>
<tr>
<td>Prefer MGF 1106 Finite Mathematics</td>
<td>3</td>
</tr>
<tr>
<td>(may substitute a higher level math)</td>
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</tr>
<tr>
<td>Prefer STA 1000C Statistics Using Excel</td>
<td>3</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6</td>
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<tr>
<td>E. Science Foundations</td>
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### 2. Common Program Prerequisites (24 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>MUT 1111*</td>
<td>Music Theory IA</td>
<td>2</td>
</tr>
<tr>
<td>MUT 1122*</td>
<td>Music Theory IB</td>
<td>2</td>
</tr>
<tr>
<td>MUT 1241*</td>
<td>Ear Training &amp; Sight Singing IA</td>
<td>1</td>
</tr>
<tr>
<td>MUT 1242*</td>
<td>Ear Training &amp; Sight Singing IB</td>
<td>1</td>
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<tr>
<td>MUT 2116*</td>
<td>Music Theory IIA</td>
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<tr>
<td>MUT 2117*</td>
<td>Music Theory IIB</td>
<td>2</td>
</tr>
<tr>
<td>MUT 2240*</td>
<td>Ear Training &amp; Sight Singing IIA</td>
<td>1</td>
</tr>
<tr>
<td>MUT 2247*</td>
<td>Ear Training &amp; Sight Singing IIB</td>
<td>1</td>
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<tr>
<td>MUN XXXX</td>
<td>Major Ensemble (four semesters)</td>
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</table>

(Piano students take MUN 3453, guitar students take MUN 3483)

**MV/MV/MP/VT**

<table>
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<tr>
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<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MVS/MV/MVW</td>
<td>Perf or comp (four semesters)</td>
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<tr>
<td>MV 1111-2121*</td>
<td>Class Piano I-II</td>
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*See Transfer Notes for possible substitutes

### 3. Core Requirements (18 hrs)

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<tbody>
<tr>
<td>MV 3131</td>
<td>Class Piano III</td>
<td>1</td>
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<td>MV 4141</td>
<td>Class Piano IV</td>
<td>1</td>
</tr>
<tr>
<td>MUS 1010</td>
<td>Music Forum (eight semesters)</td>
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</tr>
<tr>
<td>MUT 2571</td>
<td>20th Century Musical Analysis</td>
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<tr>
<td>MV/MV/MV/VT</td>
<td>Performance or composition (four</td>
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<tr>
<td></td>
<td>including two semesters of Level IV)</td>
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<tr>
<td>MUN XXXX</td>
<td>Major Ensembles</td>
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(Piano students take MUN 3453, guitar students take MUN 3483)

<table>
<thead>
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<tbody>
<tr>
<td>MUG 3104</td>
<td>Basic Conducting</td>
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<tr>
<td>MUN 4211</td>
<td>History &amp; Literature I</td>
<td>3</td>
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<tr>
<td>MUN 4212</td>
<td>History &amp; Literature II</td>
<td>3</td>
</tr>
<tr>
<td>MV-----------</td>
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<td></td>
<td><strong>GEP</strong></td>
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### 4. Specialty Requirements: (24 hrs)

#### Piano

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<tbody>
<tr>
<td>MUL 3400</td>
<td>Piano Literature I</td>
<td>2</td>
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<tr>
<td>MUL 3401</td>
<td>Piano Literature II</td>
<td>2</td>
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<tr>
<td>MV 4640</td>
<td>Piano Pedagogy I</td>
<td>1</td>
</tr>
<tr>
<td>MV 4641</td>
<td>Piano Pedagogy II</td>
<td>1</td>
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<td>MUN XXXX</td>
<td>Major Ensembles</td>
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<td>Minor-MUN XXXX</td>
<td>Piano Ensemble</td>
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#### Guitar

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<tr>
<td>MUL 3432</td>
<td>String Literature</td>
<td>2</td>
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<tr>
<td>MVS 4640</td>
<td>String Pedagogy</td>
<td>2</td>
</tr>
<tr>
<td>MUN XXXX</td>
<td>Major Ensemble</td>
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<tr>
<td>Minor-MUN XXXX</td>
<td>String Ensemble</td>
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#### Voice

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<th>Course Title</th>
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<tbody>
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<td>MUS 1010</td>
<td>Music Forum (eight semesters)</td>
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<tr>
<td>MUF 3401</td>
<td>Jazz Theory I</td>
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<tr>
<td>MUS 3403</td>
<td>American/English Song Literature</td>
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</tr>
<tr>
<td>MUS 3404</td>
<td>German Song Literature</td>
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<td>MUS 3405</td>
<td>French Song Literature</td>
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<td>MUL 3400</td>
<td>Woodwind Literature</td>
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<td>Woodwind Pedagogy</td>
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#### Percussion

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<td>Major Ensemble</td>
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<td>Minor-MUN XXXX</td>
<td>Ensemble</td>
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#### Strings

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<th>Course Title</th>
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<tr>
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<td>String Ensemble</td>
<td>2</td>
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<tr>
<td>MUL 3401</td>
<td>Major Ensemble</td>
<td>4</td>
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<tr>
<td>MUL 3432</td>
<td>Strings Ensemble</td>
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<td>MUS 4640</td>
<td>Strings Pedagogy</td>
<td>2</td>
</tr>
<tr>
<td>Restricted Electives</td>
<td></td>
<td>14</td>
</tr>
</tbody>
</table>

### 5. Restricted Electives (See above)

- Any secondary performance course not in area of major instrument or

UCF Degree Programs
6. Special Non-Course Requirements

Major Ensemble Participation

- Selected from University Chorus, Symphony Orchestra, Concert Band, Symphonic Wind Ensemble, and Marching Band. Four hours of Jazz Ensemble may be used as Major Ensemble credit.
- Ensemble assignment is by the Ensemble directors.
- Transfer students must take Major Ensemble during each of their remaining semesters
- Native UCF students must take each Major Ensemble credit in a separate semester
- Students taking a course in Performance must concurrently take a major ensemble appropriate to their principal instrument or voice

Minor Ensemble Participation

- If Minor Ensemble is taken at UCF, the four semester hours of credit must be spread over at least three separate semesters
- If Minor Ensemble credits are transferred to UCF, each remaining credit must be taken in a separate semester
- Minor Ensembles include: Brass, Percussion, Piano, String, Vocal (except Opera Workshop), Woodwind, Jazz, Women’s and Early Music Ensemble

Recitals

- Each student must perform two faculty-approved public recitals: a junior recital of 30 minutes length and a senior recital of 45 minutes length. Composition majors must present original musical compositions by the student.

7. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each Music course
- Computer Competency met by CGS 1060C, or departmental examination

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Music Education, Music (BA), Theatre

Related Minors: Music, Theatre

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- MUT 2246*, MUT 2247*: May use MUT 2226, 2227, or MUT 2266, 2267, 2276, 2277.
- MVK 1111, 2121*: May use 1112, 2122 or MVK 1211, 2221

NURSING (B.S.N.)

A. BASIC PROGRAM

(For individuals who are not Registered Nurses)

College of Health and Public Affairs

HPA 220, 407-823-2744

http://www.cohpa.ucf.edu/nursing/

Director: Jean Leuner
Undergraduate Coordinator: Patricia Leli
E-mail: ucfnurse@mail.ucf.edu

Admission Requirements

Acceptance to the university does not constitute admission to the upper division nursing program.

- Separate application to the limited access program must be made directly to the School of Nursing prior to February 1 of the year admission is sought for the Orlando Campus and June 1 of the prior year for January admission on the Brevard and Daytona Campus (see information on Accelerated Second Degree program for deadline)
- Application for admission to the University must also be submitted by the program deadline
- Students must complete all general education, foreign language, and program prerequisite requirements prior to the start of the program. Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.
- Three prerequisite science courses must be completed by the program application deadline
- The School of Nursing has a demanding curriculum. The classes are work-intensive and courses include clinical practice in a variety of settings. Due to this, it is strongly recommended that students be at least one year post high school prior to applying to the basic nursing program. Students with concerns or questions should contact the nursing office for an appointment with a basic faculty advisor.
- All applicants must have a minimum overall GPA of 2.80, and complete all program prerequisite courses with a grade of “C” (2.0) or better
- Early acceptance may be offered to First-Time-in-College (FTIC) students during their sophomore year and to students in the Military Enlisted Commissioning Program (MECP). For specific information about early acceptance, contact the School of Nursing.

Graduates are eligible to apply to take the licensing examination for registered nurses (NCLEX). The program is accredited by the Commission on Collegiate Nursing Education and approved by the Florida State Board of Nursing.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education requirements and the Common Program Prerequisites
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities, and should be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the nursing major are required for continuation and graduation from the Nursing Program
- UCF Residency Requirement: 30 hours
- Any variation from the stated prerequisites must be approved in writing by the School of Nursing. Petition forms are available in

216 UNIVERSITY OF CENTRAL FLORIDA 2006-2007 Undergraduate Catalog
1. UCF General Education Program (36 hrs)
A. Communication Foundations
   9 hrs
B. Cultural Historical Foundations
   9 hrs
C. Mathematical Foundations
   6 hrs
   MAC 1105
   Select both SYG 2000 and PSY 2012*
   Select ECO 2013 or ECO 2023 or POS 2041
   *May take Anatomy and Physiology sequence of six-eight total credits.
   **Also meets General Education Requirements.
   The first semester of a two semester general chemistry course does not meet requirement.
   *One of these courses is required to meet General Education requirements, but both are required program prerequisites.
   **General Education course prerequisite requires 4 CHM credits.
   To earn this, the student must also take the CHM 1032 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

2. Common Program Prerequisites (22 hrs)
   PSY 2012 General Psychology**
   SYG 2000 Sociology**
   MCB 2004C Health Microbiology
   CHM 1032 General Chemistry and lab**
   ZOO 3733C Human Anatomy*
   PCB 3703C Human Physiology**
   STA 2014C or 2023 Principles of Statistics**
   SOG 3104 Assessing Human Development
   DEP 2004 Developmental Psychology
   HUN 301L Human Nutrition
   *May take Anatomy and Physiology sequence of six-eight total credits.
   **Also meets General Education Requirements. The first semester of a two semester general chemistry course does not meet requirement.

3. Core Requirements

Students currently enrolled in the nursing program will complete the following core requirements (63 hrs):
NUR 2020L Therapeutic Interv. for Health Prof. 1 hr
NUR 3065 Health Assessment 2 hrs
NUR 3065L Health Assessment Lab 1 hr
NUR 3165 Nursing Research 3 hrs
NUR 3235 Promoting Physical & Mental Health 5 hrs
NUR 3235L Clinical Pract in Prim Phys/Mental Health 4 hrs
NUR 3615 Promoting Healthy Families 3 hrs
NUR 3615L Clinical Pract in Prom Healthy Fam 3 hrs
NUR 3617 Promoting Healthy Communities 3 hrs
NUR 3825 Role of the Professional Nurse 2 hrs
NUR 3128 Pathophysiology & Pharmacology 5 hrs
NUR 4525 Nursing Intervention w/Acute Ill. 2 hrs
NUR 4525L Clinical Practice w/Mental Illness Client 1 hr
NUR 4636 Community as the Continuum of Care 3 hrs
NUR 4636L Clinical Pract in Comm.-Orient NSng 2 hrs
NUR 4745 Nursing Care of Clients w/Acute Ill. 4 hrs
NUR 4745L Clinical Practice in Acute Illness 4 hrs
NUR 4827 Leadership & Management Principles 3 hrs
*NUR 4945L Nursing Practicum 4 hrs
NUR 4935 Role Transition 2 hrs
NUR 4935L Health Care Issues, Policy, & Econ 3 hrs
NUR 4935X Nursing Elective 3 hrs
Any variation from the above must be approved by the School of Nursing.
*Some NUR 4945L placements require an elective to be taken concurrently.

Students admitted as of fall 2006 will be enrolled in the following core requirements (64 hrs):
NUR 3065 Health Assessment 2 hrs
NUR 3065L Health Assessment Lab 1 hr
NUR 3825 Role of Professional Nurse 2 hrs
NUR 3930 ST: Essentials of Nursing Practice 2 hrs
NUR 3930L ST: Essentials of Nursing Practice Clinical 3 hrs
NUR 3930 ST: Community Health Nursing 3 hrs
NUR 3930L ST: Community Health Nursing Clinical 2 hrs
NUR XXXX Pathophysiology for Nurses 3 hrs
NUR 3930 ST: Pharmacology for Nurses 3 hrs
NUR 3930 ST: Nursing Care of the Adult I 3 hrs
NUR 3930L ST: Nursing Care of the Adult I Clinical 2 hrs
NUR 3930 ST: Nursing Care of Families 3 hrs
NUR 3930L ST: Nursing Care of Families Clinical 2 hrs
NUR 3165 Nursing Research 3 hrs
NUR XXXX Nursing Elective 3 hrs
NUR 4837 Health Care Issues, Policy, and Economics 3 hrs
NUR 4932 ST: Nursing Care of the Adult II Clinical 3 hrs
NUR 4932L ST: Psychiatric Mental Health Nursing 3 hrs
NUR 4932L ST: Psychiatric Mental Health Nursing Clinical 2 hrs
NUR 4932 ST: Leadership, Management and Role Transition 3 hrs
NUR 4932 ST: Introduction to Critical Care 3 hrs
NUR 4932 ST: Public Health Nursing 2 hrs
NUR 4932L ST: Public Health Nursing Clinical 1 hr
NUR 4935 Nursing Practicum 4 hrs
Any variation from the above must be approved by the School of Nursing.

4. Upper Division Restricted Electives (3 hrs)
Nursing Elective:
Any School of Nursing Elective approved by advisor

5. Departmental Continuation and Exit Requirements
Completion of all courses in major with a grade of “C” (2.0) or better
   ■ UCF GPA of 2.5 or above
   ■ School of Nursing GPA of 2.5 or above

6. Electives
   None

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or
   one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation:
   None

8. University Minimum Exit Requirements
   ■ A 2.0 UCF GPA
   ■ 60 semester hours earned after CLEP awarded
   ■ 48 semester hours of upper division credit completed
   ■ 30 of the last 36 hours of course work must be completed in residency at UCF
   ■ 25% of course work must be completed in residency at UCF
   ■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   ■ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 121 hours

Related Programs: Health Services Administration, Social Work, all health programs

Related Minors: Aging Studies Certificate, Psychology, Health Sciences, Health Services Administration

Transfer Notes:
Examples of Community College Equivalent Courses -
Prerequisites
   General Psychology (PSY 2012) or any General Psychology course
   General Sociology (SYG 2000) or any Intro to Sociology course
   Statistics (STA 2014C or 2023) or any Statistics course
   General Chemistry (CHM 1032) or any other comprehensive chemistry course w/lab)*
   Human Anatomy and Physiology I & II w/lab (BSC 2093/2094) or (BSC 2095/2096)
   General Microbiology (MCB 2004C) or any Microbiology course w/lab
   Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course
   Human Nutrition with therapeutic nutrition focus

*The first semester of a two semester general chemistry course does not meet requirement.

Note: A grade of “C” (2.0) or better is required in all prerequisite courses.

Honors
Honors Option Requires:
   Completion of a three credit directed readings course
   Completion of a three credit thesis course
   Open to students with a minimum 3.5 GPA in Nursing
   Minimum cumulative UCF 3.2 GPA
   Completion of 60 semester hours of college credit, including 12 graded upper division hours at UCF
UCF Degree Programs

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Freshman Year

Fall 16 hrs  
SYG 2000 3  
ENC 1101 3  
MAC 1105 3  
BSC 2010C 4  
PSY 2012 3

Spring 14 hrs  
CHM 1032L 3  
ENC 1102 3  
STA 2014C or STA 2023 3  
ZO 3733C 4  

Sophomore Year

Fall 16 hrs  
POS 2041 or ECO 2013 or ECO 2023 3  
EHU 2000 or HUM 2210 3  
or AMH 2010 or WOH 2012 3  
PSC 3703C 4  
SOW 3104 or DEP 2004 3  
HUN 3011 3

Spring 13 hrs  
EUH 2001 or HUM 2230 or or AMH 2020 or WOH 2022 3  
MCB 2004C 4  
(One Course:) 3

Junior Year

Fall 15 hrs  
NUR 3025 2  
NUR 3065 2  
NUR 3065L 1  
NUR 3930 ST 2  
NUR 3930L ST 3  
NUR 3930 ST 3  
NUR 3930L ST 3

Spring 16 hrs  
NUR 3930 ST 3  
NUR 3930 ST 2  
NUR 3930L ST 3  
NUR 3930 ST 3

Summer C/D 6-9 hrs  
NUR 3105 3  
NUR 3930 ST and/or 3  
NUR 4037 3

Senior Year

Fall 14-17 hrs  
NUR 4932 ST 3  
NUR 4932L ST 3  
NUR 4932 ST 3  
NUR 4932L ST 2  
NUR 4837 3  
NUR 4932 ST 3

Spring 13-16 hrs  
NUR 4932 ST 3  
NUR 4932 ST 2  
NUR 4932 ST 1  
NUR 4932 ST 3  
NUR 4932 ST (if not already taken) 3

NURSING (B.S.N.)

B. RN TO BSN PROGRAM

Completion program for individuals who are licensed RN’s

College of Health and Public Affairs

HPA1 220, 407-823-2744

http://www.cohpa.ucf.edu/nursing/

RN to BSN Coordinator: Linda Hennig

E-mail: ucfnurse@mail.ucf.edu

This program is currently also available online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), which of some which are not available via distributed learning. For more information, see http://distrib.ucf.edu/home.

Admission Requirements

Limited Access

Acceptance to the university does not constitute admission to the upper division nursing program. Separate application to the limited access program must be made directly to the School of Nursing. All applicants must have:

■ Admission to UCF undergraduate program
■ Graduation from an approved or accredited associate degree or diploma nursing program
■ Current Licensure as an RN (or eligible)
■ Progress toward the UCF general education requirements, an AA degree from a Florida Community College, or eligible for the Statewide Articulated AS-BSN Program (see AS to BS)
■ Completion of all sections of CLAST (or Exempt)

Degree Requirements

■ A minimum overall GPA of 2.5
■ Completion of program prerequisite courses with at least a grade of “C” (2.0) or better

1. UCF General Education Program (36 hrs)

A. Communication Foundations (9 hrs)
B. Cultural Historical Foundations (9 hrs)
C. Mathematical Foundations (6 hrs)
D. Social Foundations (6 hrs)
E. Science Foundations (6 hrs)

1. UCF General Education Program (36 hrs)

A. Communication Foundations (9 hrs)
B. Cultural Historical Foundations (9 hrs)
C. Mathematical Foundations (6 hrs)
D. Social Foundations (6 hrs)
E. Science Foundations (6 hrs)

2. Common Program Prerequisites (21 hrs)

3. Core Requirements (55 hrs)

4. Upper Division Restricted Elective (3 hrs)

5. Departmental Exit Requirements

6. Electives none

7. Foreign Language Requirements (0-8 hrs)

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none
8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Health Services Administration, Social Work, All health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

Sample Plan of Study

Semester I  Semester II
NUR3005 3 NUR 3165 3
UR 3065 2 NUR 4827 3
NUR 3065L 1

Semester III  Semester IV
NUR 4084 3 NUR 4636 3
NUR XXXX (elective) 3 NUR 4636L 2

Semester V
NUR 4827 3 NUR 4837 3
NUR 4836L 2 NUR 4812C 4

*Elective may be taken at any point.

Progression requirements:
Prior to NUR 3805: RN status or eligible to take NCLEX.
Prior to NUR 3165: Complete NUR 3005 and Statistics course with grade of “C” (2.0) or better.
Prior to NUR 4084:
- Be admitted to the nursing program
- Complete general education requirements or A.A. from a Florida state community college or university (SUS)
- Complete CLAST (or exempt)
- Complete Foreign language admission requirement

Other
Selected courses may be offered and at regional campuses of Daytona and Cocoa.
The RN-BSN coursework is also offered via the Internet. Some on-campus labs and clinical practica may be required. For further information access http://www.cohpa.ucf.edu/nursing/

PHILOSOPHY (B.A.)
College of Arts and Humanities
Philosophy Department, CNH 411
http://www.cas.ucf.edu/philosophy
E-mail: philosophy@ucf.edu
Don Jones or Jennifer Mundale, 407-823-2273; Fax: 407-823-6658

Admission Requirements: none

Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course
- Co-op or internshlp credit cannot be used in this major without prior departmental approval
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations
      Select HUM 2210 Humanistic Traditions I 3 hrs
      Select HUM 2230 Humanistic Traditions II 3 hrs
      Select PHI 2010 Intro to Philosophy 3 hrs
   C. Mathematical Foundations
      Prefer MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
      Prefer STA 1060C Statistics Using Excel 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites: none

3. Core requirements* (36 hrs)
   a. Core (0 hrs)
      HUM 2210 Humanistic Traditions I GE
      HUM 2230 Humanistic Traditions II GE
      PHI 2010 Intro to Philosophy GE
      PHI 3933 Research Methods (3 hrs)
   To be completed before the end of Junior year as a prerequisite to enrollment in Senior courses.
   b. Philosophical Foundations: (12 hrs)
      Select 12 hours, including at least three hours from each group:
      Reasoning
      PHI 2011 Philosophical Reasoning
      PHI 2101 Critical Thinking
      PHI 2101 Formal Logic I
      Ethics
      PHI 3670 Ethical Theory
      Knowledge
      PHI 3320 Philosophy of Mind
      PHI 4341 Ways of Knowing
      PHI 4300 Theories of Knowledge
      PHI 4500 Metaphysics
      Research Methods
      PHI 3083 Research Methods in Philosophy (6 hrs)
   c. Disciplinary and Interdisciplinary Knowing
      Select two courses:
      PHI 3401 Philosophy of Law
      PHI 3700 Philosophy of Religion
      PHI 4100 Philosophy of Science
      PHI 4420 Philosophy of Social Science
      PHI 3451 Philosophy of Psychology
      PHI 3800 Aesthetics
   d. Applications (9 hrs)
      Select three courses:
      HUM 4330 Performance Theory
      PHI 3626 Ethics in Science & Technology
      PHI 3022 Sexuality, Gender & Philosophy
      PHI 3033 Philosophy, Religion, and the Environment
      PHI 3638 Ethical Issues in the 21st Century
      PHI 3640 Environmental Ethics
      PHI 3941 Philosophy Practicum
      PHI 4321 Philosophies of Embodiment: Mind/Body/Self
      PHI 4931 Philosophy in the News
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 4633</td>
<td>Ethics and Biological Science</td>
</tr>
<tr>
<td>PHI 4804</td>
<td>Critical Theory</td>
</tr>
<tr>
<td>PHM 3100</td>
<td>Freedom and Justice</td>
</tr>
<tr>
<td>PHM 3123</td>
<td>Feminist Theory</td>
</tr>
<tr>
<td>PHM 4031</td>
<td>Environmental Philosophy</td>
</tr>
<tr>
<td>REL 3111</td>
<td>Religion and Philosophy through Film</td>
</tr>
</tbody>
</table>

**b. Reasoning (6 hrs)**

Take any two of the following courses:
- PHI 2011 - Philosophical Reasoning
- PHI 2101 - Critical Thinking
- PHI 2108 - Formal Logic I
- PHI 2647 - Logic and Ethics
- PHI 3131 - Formal Logic II

**c. History of Philosophy (9 hrs)**

Take two of the following courses:
- PHH 3100 - Ancient Philosophy
- PHH 3200 - Medieval Philosophy
- PHH 3460 - Modern Western Philosophy

Take one of the following courses:
- PHH 3600 - Contemporary Philosophy
- PHH 3510 - Marx and Nietzsche
- PHH 3700 - American Philosophy
- PHI 3930 - African Philosophy

**d. Values and Society (6 hrs)**

Take any two of the following courses:
- PHI 3670 - Ethical Theory
- PHI 3626 - Advanced Ethics in Science and Technology
- PHI 3401 - Philosophy of Law
- PHI 3800 - Aesthetics
- PHM 3123 - Feminist Theories
- PHI 3638 - Ethical Issues in the 21st Century
- PHI 3625 - Virtual Ethics
- PHI 4633 - Ethics and Biological Science
- PHM 3100 - Freedom and Justice
- PHI 3640 - Environmental Ethics
- PHI 4031 - Environmental Philosophy
- PHI 3701 - Native American Philosophy
- PHI 3805 - Contemporary Aesthetics

**e. Being and Knowing (6 hrs)**

Take any two of the following courses:
- PHI 4500 - Metaphysics
- PHI 4341 - Ways of Knowing
- PHI 4300 - Theories of Knowledge
- PHI 3700 - Philosophy of Religion
- PHI 4400 - Philosophy of Science
- PHI 3320 - Philosophy of Mind
- PHI 3451 - Philosophy of Psychology
- PHI 4420 - Philosophy of Social Science
- PHI 3323 - Minds and Machines
- PHP 4782 - Phenomenology
- PHI 4221 - Philosophy of Language

**f. Topics in Philosophy (3 hrs)**

Take one of the following courses:
- PHI 4931 - Philosophy in the News
- PHI 3683 - Philosophy of Friendship
- PHI 4321 - Philosophies of Embodiment
- PHI 3648 - Ethical Issues of the Human Genome Project
- PHI 3022 - Sexuality, Gender and Philosophy
- PHI 3033 - Philosophy, Religion and the Environment
- PHI 4804 - Critical Theory
- PHP 3783 - Modernity as a Philosophical Problem
- PHI 3750 - Problem of Evil
- PHI 3720 - Faith and Reason
- PHI 3803 - Philosophy and Creativity
- PHI 3941 - Philosophy Practicum
- REL 3111 - Religion and Philosophy through Film
- PHP 3786 - Extentialism
- HUM 4330 - Performance Theory

*Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by Departmental advisor.

**4. Upper Division Restricted Electives (6 hrs)**

Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

**5. Honors in the Major**

Students considering graduate school in philosophy are strongly encouraged to take Honors in the Major. Requirements are as follows:

**Core Requirements (36 hrs)**

Same requirements as for regular majors but must include PHI 2101 Formal Logic I

**Upper division Restricted Electives (6 hrs)**

Choose two of the following:
- PHH 3100 - Ancient Philosophy
- PHH 3200 - Medieval Philosophy
- PHH 3460 - Modern Western Philosophy
- PHI 3600 - Contemporary Philosophy

Same requirements as for regular majors.

**Honors Thesis (6 hrs)**

- PHI 4903H - Honors Directed Reading 3 hrs
- PHI 4970H - Honors Thesis 3 hrs

**Additional Requirements:**
- Application and admission through the Philosophy Honors Coordinator and the Burnett Honors College
- Fulfill University requirements for Honors in the Major
- Earn a “B” (3.0) or better in both PHI 4903H and PHI 4970H
- Maintain UCF GPA of at least 3.2 and a Philosophy GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

**6. Departmental Exit Requirements (3 hrs)**

- Either PHI 4970H: Honors Thesis (3 hrs) or PHI 4938 Senior Research Seminar.
- Earn a “C” (2.0) or better in each required course.
- Computer Competency met by PHI 4970H, PHI 49514938, or by STA 1060C.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

**7. Foreign Language Requirements (0-8 hrs)**

Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

**8. Electives (variable)**

Select primarily from upper level courses, with departmental advisor’s approval. May be outside the department.

**9. University Minimum Exit Requirements**

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required**

120 hrs

**Related Programs:** Humanities, Humanities - Philosophy, Religion, Pop Culture Track, Religious Studies

**Related Minors:** Cognitive Sciences, Environmental Studies, Humanities, Philosophy, Religious Studies, Women’s Studies

**Transfer Notes:**
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**Suggested Plan of Study:**
PHOTOGRAPHY (B.S.)

College of Arts and Humanities
E-mail: ls@mail.ucf.edu
Advisors: Kevin Haran (UCF-Orlando), 407-823-2676; Steve Spencer (UCF-Daytona), 386-506-4093

The Photography B.S. program is a joint program between the University of Central Florida and Daytona Beach Community College.

(This program is only offered at UCF at Daytona Beach)

Admission Requirements
Completion of an A.S. in Photographic Technology from Daytona Beach Community College or equivalent coursework.

Degree Requirements

Students who change degree programs and select this major, and at least annually thereafter.

Upper-division electives, internship credit, and course substitutions must be approved by the program director.

Students must earn at least a “C” in each required upper level course and maintain an overall GPA of at least 2.0

Degree Requirements

1. UCF General Education Program (36 hrs)

Students who have not satisfied General Education Requirements before transferring will complete the remaining courses at UCF. The specific courses will depend on the general education courses completed as part of the articulated A.S., and will come from the following areas:

A. Communication Foundations
ENC 1101 Composition I 3
ENC 1102 Composition II 3

B. Cultural and Historical Foundations
AH 2051 History and Criticism of Art II 3

C. Mathematical Foundations
MAC 2208 Calculus I or
MAC 2311 Calculus I or
MAC 2312 Calculus II or
MGF 2102 College Mathematics or
MGF 2106 College Mathematics or
MGF 2107 Mathematics for Liberal Arts

D. Social Foundations
Political Science or Economics 3

Psychology or Sociology 3

E. Science Foundation
Physical Science 3
Life Science 3

2. Common Program Prerequisites (0 hrs)
Subject to change. Prerequisites have not been set by the state.

ARH 2051 History and Criticism of Art II
GRA 1741 Principles of Design and Color
GRA 1104 Computer Graphics Fundamentals
PGY 1401 Fundamentals of Photography
PGY 3610C Photomedia I

3. AS Required Courses: (49 hrs)
(COMPleted in the A.S. degree program in Photographic Technology, or equivalent coursework)

Select one of the following courses.

CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

Select one of the following courses.

CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

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CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

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CRW 3051 Creative Writing

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CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

Select one of the following courses.

CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

Select one of the following courses.

CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

Select one of the following courses.

CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

Select one of the following courses.

CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

Select one of the following courses.

CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

Select one of the following courses.

CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

Select one of the following courses.

CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

Select one of the following courses.

CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

Select one of the following courses.

CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

Select one of the following courses.

CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

Select one of the following courses.

CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing

Select one of the following courses.

CRW 3011 Creative Writing for Non-Majors 3
CRW 3051 Creative Writing
UCF Degree Programs

1. UCF General Education Program (37 hrs)

A. Communication Foundations (9 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select SPC 1600 Fundamentals of Oral Communication</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

B. Cultural-Historical Foundations (9 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select AMH 2010 U.S. History 1492-1877</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select AMH 2020 U.S. History 1877-Present</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select PHI 2010 Introduction to Philosophy</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

C. Mathematical Foundations (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select MGF 1106 Finite Mathematics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select STA 1060C Basic Statistics using MS Excel or STA 2410C Principles of Statistics</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

D. Social Foundations (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select POS 2041 American National Government</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select PSY 2012 General Psychology</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

E. Science Foundations (7 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select PSC 1121 Physical Science</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select BSC 2010C Biology I</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

2. Common Program Prerequisites (34 hrs)

A. Communications (9 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPC 1600 Fundamentals of Oral Communication</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

B. Humanities (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 2010 Introduction to Philosophy</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select one:</td>
<td></td>
</tr>
<tr>
<td>ARH 2051 History of Western Art I or ARH 2052 History of Western Art II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MUL 2010 Education of Music or THE 2000 Theatre Survey or FIL 2400 History of Motion Pictures</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

C. Mathematics (9 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2201C College Algebra</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MGF 1106 Finite Mathematics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>One of the following (per GEP):</td>
<td></td>
</tr>
<tr>
<td>STA 1060C Basic Statistics using MS Excel or STA 2410C Principles of Statistics</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

D. Social Science/History (12 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select AMH 2010 U.S. History 1492-1877</td>
<td>3 hrs</td>
</tr>
<tr>
<td>AMH 2020 U.S. History 1877-Present</td>
<td>3 hrs</td>
</tr>
<tr>
<td>POS 2041 American National Government</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PSY 2012 General Psychology</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

E. Science (9 hrs + lab)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSC 1121 Physical Science</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select one:</td>
<td></td>
</tr>
<tr>
<td>AST 2020 Astronomy or GEO 1200 Physical Geography or GLV 1030 Geology and its Applications</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

F. Education Courses (9 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 2005 Introduction to Education</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EDG 2040 Technology for Educators</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EME 2040 Technology for Educators</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

G. Diversity Courses (3 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one:</td>
<td></td>
</tr>
<tr>
<td>PSC 1121 Physical Science</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

H. Other Program Prerequisites (4 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select one:</td>
<td></td>
</tr>
<tr>
<td>PSC 1121 Physical Science</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

3. Education Core Requirements (12 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDG 4233 Professional Teaching Practices</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EDF 4214 Classroom Learning Principles</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

4. Specialization Requirements (30 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOO 3736C Human Anatomy with Lab</td>
<td>3 hrs</td>
</tr>
<tr>
<td>DAE 3370 Dance &amp; Rhythms</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PEO 3041 Games Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 2622C Human Injuries</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4550C Motor Development &amp; Learning</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4312 Biomechanics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4351C Applied Exercise &amp; Human Physiology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4401 Administration and Evaluation in PE</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4550 Fitness Assessment</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4640 Adapted PE</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4823C Teaching Sports Skills</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

5. Internship I and Methods Block (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 3940 Internship I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PET 4710 Teaching Physical Education K-12</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

6. Internship II (PET 4943) (10 hrs)

- All methods/specialization courses must be completed with a letter grade of "C-" or better before registering for Internship II
- See additional requirements in College of Education, Office of Clinical Experiences

7. Foreign Language Requirements (0-8 hrs)

- State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

8. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with the State Board of Education Rule 6A-5.065

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

10. Total Semester Hours Required 120 hours

11. Coaching Endorsement (Optional) (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 3765 Coaching Theory</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select one of the following courses:</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PEO 2624 Coaching Basketball or PEO 3324 Coaching Volleyball or PEO 3544 Coaching Football</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

12. Recommended Sequence of Program Courses:

- Freshman Year
  - Fall: BSC 2010C 4 hrs
  - Spring: EDG 2701 3 hrs
PHYSICS (B.S.)

College of Sciences, Physics Department

MAP 310, 407-823-2325

http://www.physics.ucf.edu

E-mail: physics@ucf.edu

Chair: Ralph Llewellyn, 407-823-2325

Physics majors can select from five distinct tracks to earn their physics degree, as described below in Section 4, Specialization. While the various tracks share a common core of courses, they also enable students to prepare specifically for certain career paths. Students should consult their faculty advisors when deciding among these tracks.

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below “C” (2.0) in any required physics or mathematics courses are not acceptable; they must be repeated with a higher grade.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Physics.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 + 2 hrs)

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36.)

A. Communication Foundations
1. Select ENC 1101 and ENC 1102 6 hrs
2. Select SPC 1016 3 hrs

B. Cultural and Historical Foundations
1. Select MAC 2311 4 hrs

C. Mathematical Foundations
1. Select MAC 1105 3 hrs

E. Science Foundations
1. Select PHY 2048 & L (PR: MAC 2311) 4 hrs
2. Select a listed course 3 hrs

2. Common Program Prerequisites (20 hrs)

- PHY 2048/2048L (PR: MAC 2311) 4 hrs
- PHY 2046/2046L and MAC 2311 4 hrs

3. Core requirements (all tracks) (36 hrs)

- PHY 3101 Physics Engr & Sci III 3 hrs
- PHY 3113 Intro to Theoretical Methods of Physics 3 hrs
- PHY 3220 Mechanics 3 hrs
- PHY 3513 Thermal and Statistical Physics 3 hrs
- PHY 3323 Electricity and Magnetism I 3 hrs
- PHY 4324 Electricity and Magnetism II 3 hrs
- PHY 4604 Introduction to Quantum Mechanics I 3 hrs
- PHY 4605 Introduction to Quantum Mechanics II 3 hrs
- PHY 4912 Directed Independent Research 3 hrs

4. Specialization: select one specialization

4.1 General Physics Specialization (18 hrs)
- PHY 4803L Advanced Physics Lab 3 hrs

4.2 Materials Physics Specialization (18 hrs)
- Choose one lab from:
  - PHY 4803L Advanced Physics Lab 3 hrs
  - EEL 5352C Fabrication of Solid State Devices 4 hrs

4.3 Optics and Lasers Specialization (18 hrs)
- PHY 4424 Physical Optics 3 hrs

4.4 Computational Physics Specialization (19 hrs)
- PHY 3151L Computer Methods in Physics 3 hrs
- COP 3502C Computer Science I 3 hrs
- COP 3503C Computer Science II 4 hrs
- COT 4500 Numerical Calculus 3 hrs

4.5 Astronomy Specialization (18 hrs)
- AST 2002 Introduction to Astronomy 3 hrs

Directed Electives

Courses at a 3000 level or higher, approved by the Physics Department.
Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

Directed Electives

Courses at a 3000 level or higher, approved by the Physics Department.
Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.
### UCF Degree Programs

- **AST 3110** Solar System Astronomy 3 hrs
- **AST 3211** Stellar Astrophysics 3 hrs
- **AST 3402** Galaxies and Cosmology 3 hrs

**Directed Electives** 6 hrs

Courses at a 3000 level or higher, approved by the Physics Department.

Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering.

### 5. Departmental Exit Requirements

- Students must have at least a 2.0 GPA in all courses counted toward the major.
- Students will be required to take a nationally normed test in Physics during their last semester.
- Students will have an exit interview in their last semester with a representative of the Physics Undergraduate Committee.
- Computer Competency met by COP 3223 or a departmental exam.

### 6. Foreign Language Requirements  (0-8 hrs)

**Admission:** Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

**Graduation:** None

### 7. Electives  (variable)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, and CLEP. Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, and the CLAST and nine hours of Summer credit (if applicable).

**Semester Hours Required** 120 hrs

**Related Programs:** Engineering, Mathematics

**Related Minors:** Mathematics, Physics, Astronomy

### Transfer Notes

Courses taken at community colleges do not substitute for Upper Division courses.

Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

### Acceptable Substitutes

For common program prerequisites if taken prior to transferring to UCF:

- CHM 2045C*: may use CHM 1040 plus CHM 1041

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Summer

- Chem test See catalog 0
- Math test See catalog 0

### Freshman Year

**Fall**

- ANT 2000* req# 1D2-GEP 3
- ENC 1101 Composition I 3
- MAC 2311 Calc Anal Geo I 4
- CHM 2045C Chemistry Fund I 4

**Spring**

- ENC 1102 Composition II 3
- PHY 2048 Phy for Eng Sci I 3
- CHM 2046 Chemistry Fund II 3
- MAC 2312 Calc Anal Geo II 4

### Sophomore Year

**Fall**

- COP 3223 Intro to Prog C 3
- HUM 2101* req# 1B1-GEP 3
- SPC 1016 Fund Tech Prsnstn 3
- MAC 2313 Calc Anal Geo III 4
- PHY 2049 Phy for Eng Sci II 3

**Spring**

- ENC 1102 Composition II 3
- PHY 2048 Phy for Eng Sci I 3
- MAC 2312 Calc Anal Geo II 4
- PHY 2049 Phy for Eng Sci II 3

**Junior Year**

**Fall**

- PHY 2049L Phy L Eng Sci II 1
- ARH 2050* req# 1B3-GEP 3
- PHY 3220 Mechanics I 3
- PHY 3323 Elect Mag I 3
- PHY 4604 Wave Mechanics I 3
- COP 3502* req# 4-Spec 3

**Spring**

- PHY 4424* req# 4-Spec 3
- PHZ 3101 Phy Eng Sci III 3
- COP 3503C* req# 4-Spec 3

**Senior Year**

**Fall**

- PHY 3722C Physics L Elect 3
- Elective* Check restrictions 2
- Elective Check restrictions 2
- Elective Check restrictions 2

**Spring**

- PHY 4912 Ind Research 3
- Phys Test-National normed 3

### POLITICAL SCIENCE (B.A.)

**College of Sciences, Political Science Department**

**CNH 415, 407-823-2608**

**http://www.cas.ucf.edu/politicalscience**

**E-mail:** politics@ucf.edu

Chair: R. Handberg, 407-823-2608

**Admission Requirements**

- none

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior departmental approval.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program

- A. Communication Foundations
  - 1. Select ENC 1101 & ENC 1102
  - 2. Prefer SPC 1600

- B. Cultural and Historical Foundations
  - 1. Prefer AMH 2010
  - 2. Select from GEP B.2 list
  - 3. Prefer AMH 2020

- C. Mathematical Foundations
  - 1. Prefer MGF 1106 (may substitute a higher level math)
  - 2. Prefer STA 2014C or STA 2060C

- D. Social Foundations
  - 1. Select POS 2041
  - 2. Select from GEP D.2 list

- E. Science Foundations
  - 3. POS 2041 American National Government 3 hrs
  - GEP

### 2. Common Program Prerequisites

- POS 3703 Scope & Methods of Pol Sci 3 hrs
- *See Transfer Notes for possible substitutes

### 3. Core

- POS 3073 Scope & Methods of Pol Sci 3 hrs
  - (6 hrs)
  - CPP

### 4. Upper Division Restricted Electives

- Choose one of the following emphases

**Emphasis 1: American Politics and Policy**

- Five courses from area A 15 hrs
- Two courses from area B 6 hrs
- Two courses from area C 6 hrs
- One additional course from any area 3 hrs

**Emphasis 2: International Relations-Comparative Politics**

- Two courses from area A 6 hrs
- *Five courses from area B 15 hrs
- Two courses from area C 6 hrs
- One additional course from any area 3 hrs

*No more than two of the following courses may be considered part of area B credit: INR 4401, INR 4402, INR 4404.*
Emphasis 3: Prelaw
Please see Political Science - Prelaw for the emphasis requirements.

Emphasis 4: International Studies
Please see Political Science - International Studies for the emphasis requirements.

AREAS OF SPECIALIZATION

A. American Politics and Policy

- POS 3172: State Government & Public Policy
- POS 3173: Southern Politics
- POS 3182: Florida Politics
- POS 3193: Public Opinion
- POS 3265: Mass Media and Politics
- POS 3285: Voting and Elections
- POS 3341: The American Presidency
- POS 3342: Congress and the Legislative Process
- POS 3443: Political Parties and Processes
- POS 3463: Interest Groups
- POS 3472: Cultural Pluralism and the Law
- POS 4074: Latino Politics
- POS 4142: Metropolitan Politics
- POS 4204: Political Behavior
- POS 4246: Political Socialization
- POS 4284: Judicial Process and Politics
- POS 4412: Presidential Campaigning
- POS 4603: American Constitutional Law I
- POS 4604: American Constitutional Law II
- POS 4622: Politics and Civil Rights
- PUP 4204: Sustainability
- PUP 4205: Urban Environmental Policy
- PUP 4207: Environmental Policies
- PUP 3314: Minorities in American Politics
- PUP 3325: Women and Political Behavior
- PUP 4003: American Public Policy
- PUP 4204: Sustainability
- PUP 4232: Women and Public Policy
- POS 4742: GIS for the Political Scientist
- POS 4404: Education and Politics
- POS 4403: Government and Science
- POS 4602: Politics of Health
- PUP 4744: Government and Business
- PUP 4931: Topics in Public Policy

B. International Relations and Comparative Government

- CPO 3034: Politics of Developing Areas
- CPO 3103: Comparative Politics
- CPO 3104: Politics of Western Europe
- CPO 3122: Canadian Studies
- CPO 3403: Politics of the Middle East
- CPO 3614: Politics of Eastern Europe
- CPO 4082: Comparative Judicial Processes
- CPO 4074: Political Economy
- CPO 4101: European Union Politics
- CPO 4123: Government and Politics of Great Britain
- CPO 4303: Comparative Latin American Politics
- CPO 4445: Comparative Political Parties
- CPO 4553: Politics of Japan
- CPO 4643: Government and Politics of Russia
- CPO 4710: Women in Comparative Perspective
- CPO 4758: Comparative Political Institutions
- CPO 4784: Political & Economic Inequality in Comparative Perspective
- GEO 3471: World Political Geography
- IDS 4315: Global Perspectives
- INR 2002: International Relations
- INR 3016: Global Political Issues
- INR 3253: International Politics of Africa
- INR 4271: Political Globalization
- INR 4290: Diplomacy
- INR 4303: International Political Economy
- INR 4304: Causes of War
- INR 4364: Changing Nature of War
- INR 4374: Immigration Policy
- INR 4375: Human Rights Policy
- INR 4376: Global Drug Policy
- INR 4385: Women, Gender, and Globalization
- INR 4392: American Foreign Policy
- INR 4394: Topics and Cases in American Foreign Policy
- INR 4396: American Security Policy
- INR 4397: Strategic Weapons and Arms Control
- INR 4398: Contemporary International Politics of Asia
- INR 4399: The Vietnam War
- INR 4430: International Politics of Latin America
- INR 4431: Global Environmental Politics
- INR 4434: The Intelligence Community
- INR 4304: Issues in International Public Policy
- INR 4335: Coercion in International Politics
- INR 4401: International Law I
- INR 4402: International Law II
- INR 4404: Space Law
- INR 4502: International Organizations
- INR 4714: Politics of International Trade
- POS 3253: Contemporary Revolution & Political Violence
- PUP 3508: Space Studies
- INR 4351: International Environmental Law
- PUP 4510: Space Policy

C. Political Theory

- INR 4603: International Relations Theory
- POS 4206: Political Psychology
- POT 3304: American Political Thought
- POT 3302: Modern Political Ideologies
- POT 4003: Political Theory
- POT 4025: Ancient, Medieval and Early Modern Political Philosophy
- POT 4054: Modern Political Philosophy
- POT 4066: Contemporary Political Theory
- POT 4109: Politics and Literature
- POT 4305: The State, Society, and The Individual
- POT 4314: Contemporary Democratic Theory
- POT 4331: Utopia/Dystopia
- PUP 4414: Marxist Political Theory
- POT 4632: Religion and Politics

5. Departmental Exit Requirements
   - Maintain a minimum GPA of 2.0 in the major
   - Computer Competency met by POS 3703

6. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement
   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)
   Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

Internship Program: Political Science
For students who excel, a limited number of internships may be available each semester for three to six hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Economics, History
Related Minors: Economics, History, Psychology, Sociology, Philosophy

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- POS 2041* and POS 3703*: State mandated Common Program Prerequisite allow a student to enter the major with any six hours of introductory Political Science classes with a POS, INR, or CPO prefix. However, both POS 2041 and POS 3703 are course prerequisites for subsequent courses in the major, and other classes will not substitute.
Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year
Fall
AMH 2010 U S His 1492 1877  
ENC 1101 Composition I  
MGF 1106 req# 1C1-GEP  
POS 2041 Amer National Govt  
PSY 2012 req# 1D2-GEP

Spring
AMH 2020 U S His 1877 Pres  
ENC 1102 Composition II  
REL 2300* req# 1B3-GEP  
POS 2041 Amer National Govt  
STA 2014C Prin of Statistics

Sophomore Year
Fall
BSC 1005* req# 1E2-GEP  
POS 4254* req# 4A-ResElec  
CP0 3103* req# 4B-ResElec  
Elective* Check restrictions  
SPH 1120* req# Lang/Elect

Spring
PSC 1121* req# 1E1-GEP  
POS 4604* req# 4A-ResElec  
Elective* Check restrictions  
SPH 1121* req# Lang/Elect

Junior Year
Fall
PO1 3233* req# 4A-ResElec  
POS 4324* req# 4A-ResElec  
POS 4603* req# 4A-ResElec  
CP0 3034* req# 4B-ResElec  
Elective* Check restrictions

Spring
PSC 1124* req# 4A-ResElec  
POS 4604* req# 4A-ResElec  
Elective* Check restrictions  
Elective* Check restrictions  
SPH 1124* req# Lang/Elect

Senior Year
Fall
PO1 3204* req# 4C-ResElec  
Elective* Check restrictions  
Elective* Check restrictions  
Elective* Check restrictions  
Elective* Check restrictions

Spring
PO1 3173* req# 4 A.B.C  
POS 4703 Meth of Pol Sci  
Elective* Check restrictions  
Elective* Check restrictions  
Elective* Check restrictions

2006-2007 Undergraduate Catalog
Select primarily from upper level courses, with departmental advisors approval. May be outside of the department.

9. University Minimum Exit Requirements
   • A 2.0 UCF GPA
   • 60 semester hours earned after CLEP awarded
   • 48 semester hours of upper division credit completed
   • 30 of the last 36 hours of course work must be completed in residency at UCF
   • A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   • Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required  120 hrs
Related Programs: Economics, History
Related Minors: Economics, History, Psychology, Sociology, Philosophy

Transfer Notes:
• Courses taken at community colleges do not substitute for Upper Division courses.
• Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
• POS 2041* and INR 2002*: Although state mandated CPP can accept any six hours of introductory Political Science classes, both POS 2041 and INR 2002 are required in the major.

POLITICAL SCIENCE - PRELAW TRACK (B.A.)
College of Sciences, Political Science Department
CNH 415, 407-823-2608
http://www.cas.ucf.edu/politicalscience
E-mail: politics@ucf.edu
R. Handberg, 407-823-2608

While no specific major is prescribed for admission to law school, many prelaw students elect to major in political science. These individuals usually choose the prelaw emphasis within the political science major.

Prelaw students are encouraged to work closely with a prelaw advisor in planning their programs. By judicious use of electives, students build a firm foundation for law school entry and acquire a broad training which can result in career options upon graduation. For further information, consult one of the department’s prelaw advisors or the College of Arts and Sciences Prelaw Advisor.

The following represent a suggested curriculum which both meets the requirements for a Political Science Degree while preparing you for professional school.

Admission Requirements
• none

Degree Requirements
• Students who change degree programs and select this major must adopt the most current catalog.
• Co-op or internship credit cannot be used in this major without prior departmental approval.
• Students should consult with a departmental advisor.
• Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science.
• Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program  36 hrs)
   A. Communication Foundations
      Select ENC 1101, ENC 1102  6 hrs
      Select SPC 1600  3 hrs
   B. Cultural and Historical Foundations
      Prefer AMH 1010  3 hrs
      Prefer AMH 2020  3 hrs
      Select from GEP B.2 list  3 hrs
   C. Mathematical Foundations  6 hrs

   2. Common Program Prerequisites
      POS 2041* American National Government  3 hrs
      INR 2002* General Education Program  3 hrs
      MGF 1106* (may substitute a higher level math)  3 hrs
      Prefer STA 2014C or STA 1060C  3 hrs
   D. Social Foundations
      Select POS 2041 American National Government  3 hrs
      Select one of the three choices  3 hrs
   E. Science Foundations  6 hrs

   3. Core
      POS 2041 American National Government  0 hrs
      POS 3703 Scope & Methods of Pol Sci  0 hrs

   4. Upper Division Restricted Electives  (30 hrs)
      POS 4284 Judicial Process and Politics  3 hrs
      Select one of the following:  3 hrs
      POS 4603 American Constitutional Law I  3 hrs
      POS 4604 American Constitutional Law II  3 hrs
      INR 4401 International Law I  3 hrs
      INR 4402 International Law II  3 hrs
      Select one (See listing under Political Science):  15 hrs
      Five courses from area A and  15 hrs
      Two courses from area B  6 hrs
      or
      Two courses from area A and  6 hrs
      Five courses from area B  15 hrs
      Select one course from area C  3 hrs

5. Departmental Exit Requirements
   • Maintain a minimum GPA of 2.0 in the major
   • Computer Competency met by POS 3703

6. Foreign Language Requirements  (0-8 hrs)
   Admission: Met by graduation requirement
   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives  (variable)
   Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.
   Some suggested electives Include:
   • ACG 2021 Principles of Financial Accounting
   • ACG 2071 Principles of Managerial Accounting
   • BUL 3320,3321 Business Law I & II
   • PLA 3104 Legal Research
   • PLA 3155 Legal Writing
   • PHI 2101 Critical Thinking
   • MTH 3302 Logic and Proof in Mathematics
   • ENC 3241 Writing for the Technical Professional
   • ENC 3250 Professional Writing
   • LIN 4100 History of the English Language
   • Internship Program: Political Science

   For students who excel, a limited number of internships may be available each semester for three to six hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

8. University Minimum Exit Requirements
   • A 2.0 UCF GPA
   • 60 semester hours earned after CLEP awarded
   • 48 semester hours of upper division credit completed
   • 30 of the last 36 hours of course work must be completed in residency at UCF
   • A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   • Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required  120 hrs
Related Programs: Economics, History, Philosophy
Related Minors: Economics, History, English, Philosophy
Transfer Notes:
Courses taken at community colleges do not substitute for Upper Division courses.

Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- POS 2041* and POS 3703*—State mandated Common Program Prerequisite allow a student to enter the major with any six hours of introductory Political Science classes with a POS, INR, or CPO prefix. However, both POS 2041 and POS 3703 are course prerequisites for subsequent courses in the major, and other classes will not substitute.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

PSYCHOLOGY (B.A.)
College of Sciences, Psychology Department
PH 302B, 407-823-2216
http://www.psych.ucf.edu/
E-mail: psychology@ucf.edu
R. Dipboye, 407-823-2216
Chair: R. Dipboye, 407-823-2216
Psychology Advising Center: PH 305G 407-823-2219

Students majoring in Psychology as the foundation of a Liberal Arts degree will probably find the BA option an appropriate degree. Not open to BS Psychology majors.

Admission Requirements
- None

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 21 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Psychology Department.
- Students must earn at least a “C” (2.0) in each course counted toward the core requirements, restricted electives, and diversity courses.
- Co-op or internship credit cannot be used in this major without prior approval.
- Students should consult with the Department Director of Undergraduate Advising HPH 305g, prior to applying for graduation (before registration for the final term).
- Graduating seniors should complete the senior exit survey.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

Honors in Psychology:
- Additional Requirements (6 hrs)
  - The Honors in Psychology is available to majors who show outstanding scholarship and promise in psychology.
  - Application and admission through the department.
  - Fulfill University requirements for Honors in the Major.
  - Have a Psychology GPA above 3.5, based on at least 11 credits, including PSY 3213C. No grades can be below a “B” (3.0).
  - Have an overall UCF GPA above 3.2.
  - PSY 4903H Directed Honors Readings 3 hrs
  - PSY 4970H Undergraduate Honors Thesis 3 hrs

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural and Historical Foundations 9 hrs
   - C. Mathematical Foundations 3 hrs
   - 1. Prefer MGF 1106 (may substitute a more advanced math) 3 hrs
   - 2. Select STA 2023 or STA 2014C 3 hrs
   - D. Social Foundations 3 hrs
   - 1. Select one of the listed choices 3 hrs
   - 2. Select PSY 2012 3 hrs
   - E. Science Foundations 3 hrs
   - 1. Select BSC 1005 or BSC 2010C 3 hrs
   - 2. Select one of the listed choices 3 hrs

*See Transfer Notes for possible substitutes.

2. Common Program Prerequisites (3 hrs)
   - BSC 1005* Biological Principles or BSC 2010C GEP
   - PSY 2012* General Psychology GEP
   - DEP 2004* Developmental Psychology 3 hrs
   - STA 2023* Statistical Methods I or STA 2014C GEP

*See Transfer Notes for possible substitutes.

3. Core requirements (10 hrs)
   - Select one course 3 hrs
   - EXP 3404 Basic Learning Processes
   - EXP 3204C Perception
   - EXP 3604C Cognitive Psychology
   - PSB 3441 Psychobiological Aspects of Drugs
   - PSB 4240C Brainwaves and Behavior
   - PSY 3302 Psychological Measurement

4. Restricted Electives (12 hrs)
   - Select two of the following 3 hrs
   - DEP 2004 Developmental Psychology
   - PPE 3003 Personality Theory
   - SOP 3004 Social Psychology
   - Select six additional upper division hours in Psychology 6 hrs

5. Diversity courses (9 hrs)
   - Take three diversity courses: one from A, one from B, and one from either A or B
   - A. Psychology Diversity courses
   - CLP 3154 Women’s Mental Health
   - DEP 3464 Psychology of Aging
   - SOP 3723 Cross Cultural Psychology
   - SOP 3724 Psychology of Racial Prejudice
   - SOP 3742 Psychology of Women
   - SOP 2772 Sexual Behavior
   - SOP 3784 Psychology of Diversity
   - B. General Diversity courses

Select from courses outside the Psychology Department that focus on gender, class, or minority issues: AMH 3421, AMH 3423, AMH 3561, AMH 3582, AMH 3571, AMH 3572, AMH 3586, AML 3283, AML 3614, AML 3615, AML 3682, AML 3640, AML 4461, ANT 3202, ANT 3245, ANT 3302, ANT 3311, ANT 3313, ANT 3322, ANT 3363, ANT 3541, ANT 3640, ARH 3520; ASH 4304, ASH 4404, ASH 4442; CCJ 4463, CCJ 4570; CJ 4174; CLA 3851; COM 4104, COM 4461; CPO 3403, EUH 4576; FIL 3309; GEO 3471; GYE 3001; HSC 4546; HUM 3520; HUM 3542; HUM 3561; JST 3401, JST 3402; JST 3403, JST 3404, LAH 3130, LAH 3200; LAH 3400, LAH 5713; LIN 4643; LIT 3383, LIT 3392; MMC 4300; NUR 3805, NUR 3616; PAD 4446; PHI 3022, PHI 3033, PHM 3123; PL 4020, PL 4830; POS 4246, POS 4622; PUP 3314, PUP
6. Departmental Exit Requirements
- Earn a grade of “C” (2.0) or better in each psychology course used for major
- Maintain a minimum overall psychology GPA of 2.0
- Computer Competency met by PSY 3213C

7. Foreign Language Requirements (0-8 hrs)

8. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

8. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs:
- Sociology, Anthropology, Statistics, Criminal Justice
- Related Minors:
- Psychology, Sociology, Anthropology, Math, Statistics
- Certificates: Aging Studies, Behavioral Forensics
- Transfer Notes:
  - Courses taken at community colleges do not substitute for Upper Division courses
  - Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
  - BSC 1005*: any lower level BSC course or ZOO X010.
  - Although CPP permit any psychology course, PSY 2012* is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
  - Although CPP permit any statistics course, STA 2023* or STA 2014C is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
  - DEP 2004*: any lower level psychology course.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>BSC 1005 Bio Principles</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>ENC 1101 Composition I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MGF 1100* req# 1C1-GEP</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>POS 2041* req# 1D1-GEP</td>
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<tr>
<td>PSY 2012 General Psychology</td>
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</table>

### Sophomore Year

<table>
<thead>
<tr>
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<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>AMH 2010* req# 1B1-GEP</td>
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<tr>
<td>MUL 2010* req# 1B3-GEP</td>
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<tr>
<td>STA 2022* Stat Methods I</td>
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</tr>
<tr>
<td>SOP 2772* req# 5A-Diver</td>
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</table>

### Junior Year

<table>
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<tr>
<th>Fall</th>
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<th>Notes</th>
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<td>3</td>
<td></td>
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<td>Elective* Check restrictions</td>
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### Senior Year

<table>
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<tr>
<th>Fall</th>
<th>Spring</th>
<th>Notes</th>
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<tbody>
<tr>
<td>CLP 3143* req# 4-ResElec</td>
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<td></td>
</tr>
<tr>
<td>Elective* Check restrictions</td>
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</tr>
</tbody>
</table>

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### PSYCHOLOGY (B.S.)

**College of Sciences, Psychology Department**

**PH 302B, 407-823-2216**


**E-mail:** psychology@ucf.edu

R. Dipboye, 407-823-2216

Psychology Advising Center; PH 305 G, 407-823-2219

Students who desire a quantitative background in statistics, math, and science are encouraged to complete the program of study leading to the BS degree. Not open to BA Psychology majors.

**Admission Requirements**

- **none**

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 21 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Psychology Department
- Students must earn at least a “C” (2.0) in each course counted toward the core requirements, restricted electives, and diversity courses
- Co-op or internship credit cannot be used in this major without prior approval
- Students should consult with the Department Director of Undergraduate Advising HPH 305g, prior to applying for graduation (before registration for the final term).
- Graduating seniors should complete the senior exit survey
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

**Honors in Psychology: Additional Requirements**

<table>
<thead>
<tr>
<th>(6 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>The Honors in Psychology is available to majors who show outstanding scholarship and promise in psychology</td>
</tr>
<tr>
<td>Application and admission through the department</td>
</tr>
<tr>
<td>Fulfill University requirements for Honors in the Major</td>
</tr>
<tr>
<td>Have a Psychology GPA above 3.5, based on at least 11 credits, including PSY 3213C. No grades can be below a “B” (3.0)</td>
</tr>
<tr>
<td>Have an overall UCF GPA above 3.2</td>
</tr>
<tr>
<td>PSY 4903H Directed Honors Readings 3 hrs</td>
</tr>
<tr>
<td>PSY 4970H Undergraduate Honors Thesis 3 hrs</td>
</tr>
</tbody>
</table>

1. **UCF General Education Program**

| (Note: Certain courses must be selected in the GEP for this major bringing the total GEP hours to more than 36) |
| 1. Communication Foundations 9 hrs |
| B. Cultural and Historical Foundations 9 hrs |
| C. Mathematical Foundations |
| 1. Prefer MGF 1106 (may substitute a more advanced math) 3 hrs |
| 2. Select STA 2023 or STA 2014C 3 hrs |
| D. Social Foundations |
| 1. Select one of the listed choices 3 hrs |
| 2. Select PSY 2012 3 hrs |
| E. Science Foundations |
| 1. Select one of the listed choices 3 hrs |
| 2. Select BSC 2010C (or BSC 1005 if no additional Biology courses are planned) 4 hrs |
| 3. Students who desire a quantitative background in statistics, math, and science are encouraged to complete the program of study leading to the BS degree. Not open to BA Psychology majors. |

---

**UCF Degree Programs**
2. Common Program Prerequisites (3 hrs)

- BSC 2010C* Biology I or
- BSC 1005 (If no additional Biology courses are planned)
- PSY 2012* General Psychology
- PSY 3030* Developmental Psychology
- STA 2023* Statistical Methods I or STA 2014C

*See Transfer Notes for possible substitutes

3. Core requirements (14 hrs)

- BSC 2010C Biology I (or BSC 1005) GEP
- PSB 3002 Physiological Psychology 3 hrs
- PSY 2012 General Psychology GEP
- PSY 2212C Research Methods in Psych 4 hrs
- PSY 4212C Advanced Research Methods 4 hrs
- STA 2023 Statistical Methods or STA 2014C GEP

Select one course

- EXP 3404 Basic Learning Processes 3 hrs
- EXP 3204C Perception
- EXP 3604C Cognitive Psychology
- PSB 3411 Psychological Aspects of Drugs
- PSB 4222 Brainwaves and Behavior
- PSB 4240C Neuropsychology
- PSY 3302 Psychological Measurement

4. Restricted Electives (12 hrs)

A. Select two of the following: 6 hrs
- DEP 2004 Developmental Psychology
- PFE 3003 Personality Theory
- SOP 3004 Social Psychology

B. Psychology electives: select six additional upper division hours in psychology 6 hrs

5. Diversity courses (6 hrs)

Take two diversity courses - one from A & one from B

A. Psychology Diversity courses 3 hrs
- CLP 3184 Women’s Mental Health
- DEP 3464 Psych of Aging
- SOP 3723 Cross Cultural Psychology
- SOP 3724 Psych of Racial Prejudice
- SOP 3742 Psych of Women
- SOP 2772 Sexual Behavior
- PSY 3784 Psychology of Diversity

B. General Diversity courses 3 hrs
- Select from courses outside the Psychology department that focus on gender, class, or minority issues: AMH 3421, AMH 3423, AMH 3561, AMH 3562, AMH 3571, AMH 3572, AMH 3586; AML 3263, AML 3614, AML 3615, AML 3682, AML 3640, AML 4261; ANT 3241, ANT 3245, ANT 3302, ANT 3311, ANT 3313, ANT 3332, ANT 3363, ANT 3541, ANT 3640; ARH 3520; ASH 4304, ASH 4404, ASH 4442; CCJ 4463; CCJ 4670; CJE 4174; CLA 3851; COM 4014, COM 4461; COP 4303; EEU 4576; FCL 3309; GEO 3471; GY 3001; HSC 4564; HUM 3320; HUM 3401; HUM 3419; JST 3401, JST 3402; LAH 3130, LAH 3200, LAH 3400, LAH 5713; LIN 4643; LIT 3363; LIT 3192; MSC 4300; NUR 3615, NUR 3616; PAD 4446; PHI 3032; PHI 3033; PHM 3123; PLA 4020, PLA 4830; POS 3003, POS 4303; PUP 3314, PUP 3316; REL 3162; SOM 3620; SPA 4612; SPA 4613; SPA 4772; SYD 3700; SYD 3750; SYD 3751, SYD 3800; SYS 4323, SYS 4730, SYS 4774, SYS 4810, SYS 4813; THE 3230; WST 3015.

6. Science Electives (12 hrs)

A. Select at least six credits outside Psychology from:

(See course listing for prerequisites)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>CGS 2100C</td>
<td>Computer Fundamentals of Business</td>
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<tr>
<td>COP 3203C</td>
<td>Computer Science I</td>
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<tr>
<td>COP 3035C</td>
<td>Computer Science II</td>
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<tr>
<td>ENC 3241</td>
<td>Writing for the Technical Professional or</td>
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<td>ENC 3211</td>
<td>Theory and Practice of Technical Writing</td>
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<td>ENC 4280</td>
<td>Technical Writing Style</td>
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<td>MAC 2233</td>
<td>Concepts of Calculus</td>
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<tr>
<td>MAC 2253</td>
<td>Applied Calculus I</td>
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<tr>
<td>MAC 2254</td>
<td>Applied Calculus II</td>
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<td>Genetics with lab</td>
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<td>PCB 3703C</td>
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<td>STA 4102</td>
<td>Computer Process of Stat Data</td>
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<td>STA 4163</td>
<td>Statistical Methods II</td>
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<td>STA 4164</td>
<td>Statistical Methods III</td>
</tr>
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<td>ZOO 3733</td>
<td>Human Anatomy</td>
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</table>

B. Select at least two of the following: 5-8 hrs

- EXP 3204C Perception
- EXP 3604C Cognitive Psychology
- EXP 4507C Advanced Human Memory and Cognition
- PSB 3411 Psychological Aspects of Drugs
- PSB 4422 Brainwaves and Behavior
- PSB 4240C Neuropsychology
- PSY 3302 Psychological Measurement
- PSY 3320C Survey Methods in Psychology

7. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each psychology course
- Maintain a minimum overall psychology GPA of 2.0
- Computer Competency met by PSY 3213C

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine hours of Summer credit (if applicable).

Total Semester Hours Required 120 hrs

Related Programs: Sociology, Anthropology, Statistics, Criminal Justice

Related Minors: Psychology, Sociology, Anthropology, Math, Statistics

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- BSC 2010C: any lower level BSC course or ZOO X010. However, BSC 2010C is a prerequisite for all subsequent Biology courses and thus may need to be taken in order to qualify for other Biology courses used as science electives for the BS degree in psychology.
- Although CPP permit any psychology course, PSY 2012 is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
- Although CPP permit any psychology course STA 2023 or STA 2014C is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
- DEP 2004: any lower level psychology course.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same language.

Freshman Year

Fall
- ARH 2050* req# 1B3-GEP 3
- ENC 1102 Composition I 3
- MGF 1106* req# 1C1-GEP 3
- PSC 1121* req# 1E1-GEP 3
- PSY 2012 General Psychology 3

Spring
- STA 2014C* Print of Statistics 3

Sophomore Year

Fall
- EUH 2000* req# 1B2-GEP 3
- DEP 2004* Dev Psychology 3
- Elective* Check restrictions 3
- SOP 3004* Social Psychology 3

Spring
- PSY 4213L Advanced Research Methods Statistical Lab 3
- PSY 4395C Psychological Measurement Lab 3

*See Transfer Notes for possible substitutes
**Double Majors**, those who complete a PAD major, and those of another UCF major, must take a minimum of 15 hrs PAD prefixed electives.

Those who complete a recognized UCF **minor** in a discipline outside Public Administration must take a minimum of 18 hrs PAD prefixed electives.

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### Degree Requirements

**Students who change degree programs and select this major must adopt the most current catalog.**

**Students should consult with a departmental advisor on a regular basis.**

**The courses designated in sections 1 and 2 below may be taken at a Florida Community College and should usually be completed in the first 60 hours.**

**Students must earn at least a “C” (2.0) in each course accepted as a Common Program Prerequisite and Core Requirement (see sections 2 and 3 below).**

**No transfer course will be accepted with a grade lower than a “C” (2.0).**

**The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.**

**All other PAD majors must complete at least 21 hrs of PAD prefixed electives at the 3000 level or higher within the restricted elective area;**

**Additional electives can be taken from other allied supporting fields such as accounting, legal studies, communications, computer science, criminal justice, economics, political science, social work, sociology and statistics. Courses should be selected with the assistance of an advisor, and must be upper division (3000-4000 level).**

### 5. Departmental Exit Requirements

The students must attain a minimum grade of “C” (2.0) in all Common Program Prerequisite courses and in all Core Requirements (see sections 2 and 3 above). An overall 2.0 GPA must be attained for all coursework (see sections 1, 2, 3 and 4).

### 6. B.A./B.S. Option

**6 hrs)**

**Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at the college level.**

**Students pursuing the B.S. degree must complete two additional upper level technical courses (six credit hours) from a list approved by the Department.**

### 7. Foreign Language Requirements

**8 hr(s)**

**Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.**

**Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at the college level, beyond University requirement.**

### 8. University Minimum Exit Requirements

**A 2.0 UCF GPA**

**60 semester hours earned after CLEP awarded**

**48 semester hours of upper division credit completed**

**30 of the last 36 hours of course work must be completed in residency at UCF**

**Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)**

### Total Semester Hours Required

**120 hrs**

### Related Programs:

- Accounting, Communications, Economics, Legal Studies, Computer Science, Social Work, Political Science, Criminal Justice, Health Services Administration, Management

### Related Minors:

- Communications, Business, Economics, Political Science, Legal Studies, Criminal Justice

### Transfer Notes:

Intro. to Computer Science (CGS 1060C) or any Computer Science course

Economics I (ECO 2013) or any Macroeconomics course

American National Government (POS 2041) or any course in American National Government

### Tentative Course Schedule for Entering Freshmen

**Freshman Year**

**Fall**

- 14 hrs

- ENC 1101

- CGS 1060C

- POS 2041

- ECO 2013

**Spring**

- 15 hrs

- ENC 1102

- CGS 1060C

- POS 2041

- One Course: ARH 2050, ARH 2051, MUL 210, THE 2000, REL 2300, PHI 2010, LIT 2110, LIT 2120, PAF 2102

**Sophomore Year**

**Fall**

- 15 hrs

- SPC 1600

- EUH 2000 or HUM 2210 or AMH 2010 or WOH 2012

- ECO 2013

- BSC 1055 or MCB 1310 or GLY 1030 or GEO 1200 or ANT 2511

- Junior Year**
## UCF Degree Programs

### RADIO-TELEVISON (B.A.)

**College of Sciences**

Nicholson School of Communication  
COM 238, 407-823-2681  
http://www.cas.ucf.edu/communication  
E-mail: radiotv@ucf.edu  
Contact: M.A. Shaver

**Admission Requirements - Limited Access**

- Students should apply to become Radio-Television majors only after completing all requirements for admission. Deadlines are: October 1 to be admitted the next Spring term  
  - February 1 to be admitted the next Summer term  
  - July 1 to be admitted the next Fall term

- Attain an overall minimum 2.25/4.00 GPA based on a minimum of 30 credit hours of college work. **Note:** meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off varies each term with the quality of applicants, and during previous years, ranged from a minimum of 2.9.

- Meet a grammar proficiency standard

- Receive a positive evaluation of other factors specified by the School.

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.

- Students may complete an internship off campus in a professional broadcast, production, or corporate operation with advisor’s approval.

- Internship credit may be used in this major pending departmental permission

- Co-op credit may be used in this major pending approval from an RTV advisor

- Students should consult with a School advisor

- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication

- Of the 120 hours required for graduation, 80 hours must be taken outside of the Nicholson School of Communication.

- Of these 80 hours, 65 must be taken in the liberal arts (i.e. within the College of Arts & Humanities or the College of Science).

- To ensure completion within 120 hours and to comply with the 80 hour rule, no more than 40 of the 120 hours may be taken within the Nicholson School of Communication

- Radio TV majors must select their required minor from outside the School of Communication to remain below the 40 credit hour school maximum.

- Students seeking to change tracks once accepted into the major, must re-apply to the RTV major under the new, desired track.

- All students are required to pay a fee for equipment insurance.

- A maximum of 3 credit hours of internship may be earned in one semester. Internship credit, plus all other hours taken within the school, must not exceed 40 hours.

- A maximum of 6 credit hours of internship may be earned within the 120 credit hours required for graduation. Summer internships are available during “C” term only.

- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program (36 hrs)

- Select one of the following:
  - CSE 1101 & ENC 1102 6 hrs
  - Select SPC 1600 or SPC 1016 3 hrs

- Cultural and Historical Foundations 9 hrs

- Mathematical Foundations 3 hrs

- Select CJS 2100CC 3 hrs

- Social Foundations 6 hrs

- Science Foundations 6 hrs

### 2. Common Program Prerequisites (0 hrs)

- Select one course
  - SPC 1016 Fund of Technical Presentations
  - SPC 1600 Fund Oral Communication

### 3. Core requirements (all areas) (21 hrs)

- a. Select one of the following:
  - CGS 2100CC Computer Fundamentals of Business
  - CGS 2685C Desktop/Internet Publishing
  - CGS 3175 Internet Applications

- b. Complete all the following:
  - RTV 3102 Writing for the Electronic Media 3 hrs
  - RTV 3200 Production Fund & Aesthetics of Electronic Media 3 hrs
  - RTV 3000 Development and Structure of Elect Media and New Technology 3 hrs
  - MMC 4200 Mass Communication Law 3 hrs
  - MMC 4202 Mass Communication Law 3 hrs

- MMC 4320 Mass Media Research Method 3 hrs

### 4. Specialization: Select one area

#### 4.1 Production (18 hrs)

(Select 18 hours from the following)

- RTV 3210C Audio Production I 4 hrs
- RTV 3229C Studio Television Production 4 hrs
- RTV 3232C Lighting for Video 3 hrs
- RTV 3260C Single Camera Video Prod’n & Edit 4 hrs
- RTV 3263C Advanced Video Post-Production 3 hrs
- RTV 3280C Production of Int. Multimedia 3 hrs
- RTV 3942L Practicum 1-3 hrs
- RTV 4211C Audio Production II 3 hrs
- RTV 4280C Webcasting I 3 hrs
- RTV 4281C Webcasting II 3 hrs
- RTV 4206C Television Directing 4 hrs
- RTV 4270C Radio Production & Programming 3 hrs
- RTV 4941 Internship 1-3 hrs

#### 4.2 Broadcast Journalism (19 hrs)

- RTV 3260C Single Camera Video Prod’n & Edit 4 hrs
- RTV 3301 Electronic Journalism I 3 hrs
- RTV 3304 Electronic Journalism II 3 hrs
- RTV 4202C Television News 3 hrs
- MMC 4602 Contemporary Media Issues 3 hrs
- JOU 3004 History of American Journalism 3 hrs

#### 4.3 Broadcast Generalist (18 hrs)

(Select 6 hours from Group b:

- ADV 3000 Principles of Advertising 3 hrs
- PUR 4000 Public Relations 3 hrs
- COM 4110 Business & Prof. Comm. 3 hrs
- JSC 2210 Writing for Business Professionals 3 hrs

### 5. Required Minor (18 hrs minimum)

Radio-Television majors must complete an 18 hour minor in an academic area outside the School of Communication.

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**Fall 15/16 hrs**  
**Spring 15/16 hrs**

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<thead>
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<th>Course</th>
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<th>Spring</th>
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<tr>
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<tr>
<td>PAD 4414</td>
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<td>Restricted Elective</td>
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<tr>
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<td>(Foreign Lang I) or B.S. option</td>
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**Senior Year**

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<tr>
<td>Restricted Elective</td>
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**Minors**

The six PAD required core courses for the major will be required of the PAD minor. These are PAD 3003, PAD 4414, PAD 4104, PAD 4204, PAD 4034, and PAD 4720.

The Department of Public Administration offers minors in Emergency Management and Homeland Security, Urban and Regional Planning, Public Administration, and American Humanities, and also offers a certificate in Nonprofit Management.
6. School Exit Requirements
- To avoid delaying graduation, you must request a review of requirements before registering for your last term
- Achieve an overall "C" GPA (2.0) in UCF Radio/TV courses used to satisfy the major
- Computer competency met by CGS 2100C or departmental assessment.

7. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examination scores for foreign languages may be used to meet the requirement.

8. Electives (variable)
Select primarily from upper level courses, with school advisor’s approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

8. Electives (variable)
Select primarily from upper level courses, with school advisor’s approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

RADIOLOGIC SCIENCES (B.S.)
College of Health and Public Affairs
HPA2 210, 407-823-2747
http://www.cohp.ucf.edu/health.pro/radbs.cfm
Undergraduate Program Director: Thomas Edwards
E-mail: ledwards@mail.ucf.edu

Admission Requirements Limited Access
- Acceptance to the university does not necessarily constitute admission to the upper division Radiologic Sciences Program
- Separate application to the limited access program must be made directly to the program on or before March 1 of the year admission is sought
- UCF application must be submitted by the program deadline of March 1. Acceptance to UCF is necessary before acceptance to the program can occur
- This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
- Criminal history information (background check) must be submitted on or before April 1st of the year admission is sought. For Florida residents the criminal history must be certified by the Florida Department of Law Enforcement (FDLE).
- A personal interview is also required.
- Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program. All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C."

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions, and the Common Program Prerequisites Requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program
- UCF Residency Requirement for Radiography: 33 hours

1. UCF General Education Program (36 + 2 hrs)
A. Communication Foundations 9 hrs
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
- Select MAC 1105*
- Select CGS 1060C
D. Social Foundations 6 hrs
E. Science Foundations 8 hrs
- Select BSC 2101C*
- Select PHY 2053C*

2. Common Program Prerequisites (12 hrs)
- CGS 1060C Introduction to Computer Science GEP
- PCB 3703C* Human Physiology 4 hrs
- PHY 2053C* College Physics I GEP
- PHY 2054C College Physics II 4 hrs
- ZOO 3733C* Human Anatomy 4 hrs
- MAC 1105* College Algebra GEP
* See Transfer Notes

3. Core Requirements (77 hrs)

Junior Level
RTE 3000 Introduction to Radiologic Sciences 3 hrs
RTE 311C Introduction to Patient Care 2 hrs
RTE 3503C Radiographic Procedures I 3 hrs
RTE 3116 Advanced Patient Care 3 hrs
RTE 3418C Principles of Radiographic Exposure I 3 hrs
RTE 3930 ST: Clinical Education I 2 hrs
RTE 3513C Radiographic Procedures II 3 hrs
RTE 3457C Principles of Radiographic Exposure II 3 hrs
RTE 3684C Physics of Image Production 2 hrs
RTE 3308 Medical Physics 3 hrs
STA 2023 Statistical Methods I 3 hrs
HSC 4550 Pathophysiologic Mechanisms 3 hrs
RTE 3930 ST: Clinical Education II 4 hrs

Senior Level
RTE 4563 Special Radiographic Procedures 2 hrs
RTE 4782 Pathophysiology 2 hrs
RTE 4932 ST: Clinical Education III 5 hrs
RTE 4573 Advanced Imaging Modalities 3 hrs
RTE 4XXX Computed Tomography Protocols or 1 hr
RTE 4XXX Mag Resonance Imaging Protocols 1 hr
RTE 4932 ST: Clinical Education IV 6 hrs
RTE 4385 Radiobiology 1 hr
RTE 4932 ST: Clinical Education V - A 2 hrs
RTE 4932 ST: Clinical Education V - B 4 hrs
RTE 4473 Quality Improvement 3 hrs
RTE 4762 Anatomy for the Medical Imager 3 hrs
RTE 4206 Leadership in Radiologic Sciences 3 hrs
RTE 4932 ST: Advanced Clinical Practicum 4 hrs

5. Program Exit Requirements (127 hrs)
A minimum overall GPA of 2.50 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program. The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Graduates are eligible to apply for admission to the radiography certification exam administered by the American Registry of Radiologic Technologists (ARRT).
UCF Degree Programs

6. Electives  none

7. Foreign Language Requirements  (0-8 hrs) Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements
- An overall GPA of 2.5
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: (126 hrs)
Related Programs: Cardiopulmonary Sciences, Nursing, Health Services Administration
Related Minors: Health Services Administration
Transfer Notes:
Prerequisite Requirements
The prerequisite requirements for the following courses are listed below:
PHY 2053C: PR: MAC 1105 and MAC 1114 or equivalent or C.I.
PCB 3703C: PR: BSC 2010C or CHM 1032 or CHM 2045C.
ZOO 3733C: PR: BSC 2010C or equivalent.

Credit by Examination
Credit by Exam for clinical education courses will be awarded to ARRT certified Registered Technologists who demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. The knowledge required to perform advanced competencies may be demonstrated by registration in multiple disciplines, registration in an advanced level of certification or completion of the Advanced Clinical Practicum course. Students who successfully complete the requirements for credit by exam will be awarded a grade of "S" for the clinical education courses required in their program of study.

Credit by exam for didactic courses will be awarded according to the process described in the UCF catalog. Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Community College Equivalents:
Human Anatomy and Physiology I and II (BSC X085C and BSC X086C or BSC 2053C and BSC 2094C) 8
College Algebra (MAC 1105) OR (MAC 1102) 3
College Physics I (PHY 2053C) 4
College Physics II (PHY 2054C) 4
Introduction to Computer Science (CGS 1060C) OR CGS X000, CGS X361, CGSX570, CIS X000, CGS X001, CGS X091 (no longer offered), CGS X100 3

Tentative Course Schedule for Entering Freshmen

RADIOLOGIC SCIENCES

Freshman Year*

Fall  13 hrs  Spring  16 hrs
ENC 1101 3  ENC 1102 3
CGS 1060C 3  BSC 2010C 3
MAC 1105 3  MAC 1114 3
CHM 1032 4  ECO 2013 or POS 2041 or ECO 2023 3
  or THE 2000 or REL 2300 or PHI 2010 or ARH 2300 or FII 2400 3

Sophomore Year

Fall  14 hrs  Spring  14 hrs
PHY 2053C 4  PCB 3703C 4
ZOO 3733C 4  SPC 1600 3
EUN 2000 or HUM 2210 4  PHY 2054C 4
  or AMH 2010 3
PSY 2012 or SYG 2000 or 3 AN 2000 3

Junior Year

Fall  15 hrs  Spring  16 hrs
RTE 3000 3  RTE 3457C 3
RTE 3112 2  RTE 3930 4
RTE 3418C 3  RTE 3513C 3
RTE 3503C 3  HSC 4550 3
RTE 3684C 2  RTE 3116 3
RTE 3530 2

Summer  13 hrs
STA 2023 3
RTE 4932 5
RTE 3308 3
RTE 4563 2

Senior Year

Fall  14 hrs  Spring  14/12 hrs
RTE 4385 1  RTE 4932 2
RTE 4762 3  and RTE 4932** 4
RTE 4824L 6  RTE 4782 2
RTE 4573 3  RTE 4473 3
RTE XXXX 1  RTE 4206 3

Summer  4/6 hrs
RTE 4932 4**
or
RTE 4932 2
and RTE 4932 4**

**Completed during the Spring or Summer semester/term.

RADuLOGIC SCIENCES (B.S.)

AS to BS TRACK

Note: For detailed information about this program, see description in the Articulated AS to BS Program section.

REAL ESTATE (B.S.B.A.)

College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu/Realestate

Admissions Requirements
- Completion of the UCF General Education Program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program  (36 hrs)
   A. Communications Foundations  9 hrs
      Prefer SPC 1600
   B. Cultural and Historical Foundations  9 hrs
      Select MAC 1105
      Select CGS 2100CC
   C. Mathematical Foundations  3 hrs
      Select MAC 2233 and STA 2023
      Select one: STA 3023, SYG 2000, ANT 2000
      Select one: PSY 3102, PSY 3103
   D. Social Foundations  3 hrs
      Select ECO 3401
      Select ECO 2023
      Select ECO 3401 Quantitative Business Tools I
      CGS 2100CC
      Computer Fundamentals for Business
   E. Science Foundations  6 hrs
      Select ECO 3401
      Select ECO 3401
      Select ECO 3401

2. Common Program Prerequisites  (18 hrs)
   Must be completed with a "C" (2.0) or better.
   ACG 2021 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2033 Principles of Microeconomics
   ECO 3401 Quantitative Business Tools I
   CGS 2100CC
   Computer Fundamentals for Business
   "At UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Required for All Business Majors  (30 hrs)
   First or subsequent semester in the College of Business Administration:
   GEB 3301 Introduction to International Business  6 hrs
   GEB 3356 Legal & Ethical Environments of Business  3 hrs
   GEC 4141 Quantitative Business Tools II  3 hrs
   FIN 3403 Business Finance  3 hrs
   MAN 3025 Management of Organizations  3 hrs
4. Special College and/or Department Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in Real Estate must apply for admission to the major.
- Final exams will be given during exam week.
- Any student receiving a business degree must complete one half (1/2) of the 60 hours of upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- A maximum of 6 hours of required or elective coursework can count toward another major or minor degree program.
- Students majoring in finance must earn a grade of "C" (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. FIN 3403 is included in this requirement.
- Students must earn at least a 2.0 GPA in the major and CBA.

5. Required Courses

(9 hrs)
- FIN 2104 Personal Finance and Investments 3 hrs
- REE 3042 Fundamentals of Real Estate 3 hrs
- REE 3433 Real Estate Law 3 hrs

6. Restricted Electives

(18 hrs)
Select six of the following:
- REE 3XXX Environmental Law 3 hrs
- REE 4103 Real Estate Appraisal and Valuation 3 hrs
- REE 4202 Residential Real Estate Finance 3 hrs
- REE 4303 Real Estate Investment Analysis 3 hrs
- REE 4732 Real Estate Development 3 hrs
- REE 4XXX Commercial Real Estate Finance 3 hrs
- MAR 3391 Professional Selling 3 hrs
- FIN 4941 Internship 3 hrs

7. Foreign Language Requirements

(0-9 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

9. Electives***

(variable)

Total Semester Hours Required
120 hours

Majors who meet departmental criteria are also eligible to apply for a marketing internship (MAR 4941) and/or take the small business consulting class (MAR 5941). MAR 5941 cannot count as one of the three restricted electives required of marketing majors. For additional information about the department, curriculum, faculty, events, and careers in marketing, students are invited to visit our department home page at: http://www.bus.ucf.edu/mar/.

Community/Junior College Transfer Notes

- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- Professional courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - REAL ESTATE

Freshman
1st Term 15 hrs 2nd Term 15 hrs
- ENC 1101* 3 ENC 1102* 3
- Cult-Hist I* 3 Cult-Hist II* 3
- SPC 1600 3 Art/Music/Lit 3
- **Elective 3 MAC 1105* 3
- ***Elective 3 CGS 2100CC* 3

Must complete nine hours in a summer semester

Sophomore
1st Term 15 hrs 2nd Term 15 hrs
- ECO 2023* 3 ECO 2031* 3
- ACG 2021* 3 ACG 2071* 3
- Science 3 Science 3
- Psy/Soc/Art 3 FIN 2104 3
- **Elective 3 ECO 3401* 3

Junior
1st Term 15 hrs 2nd Term 15 hrs
- **GEB 3031 6 GEB 3356 3
- REE 3043 3 MAR 3023 3
- REE 3433 3 ECO 3411 3
- FIN 4303 3 REE Elective 3
- FIN 4941 Internship 3 REE Elective 3

Senior
1st Term 15 hrs 2nd Term 15 hrs
- MAN 3025 3 MAN 4720 3
- ISM 3011 3 ***Elective 3
- BUL 3123 3 ***Elective 3
- REE Elective 3 REE Elective 3
- REE Elective 3 REE Elective 3
- ***General electives as required to reach 120 semester hours.

RELIGIOUS STUDIES (B.A.)

College of Arts and Humanities
Philosophy Department, CNH 411, http://www.cas.ucf.edu/philosophy/
E-mail: religion@mail.ucf.edu
Shaun Gallagher, 407-823-2273; Fax: 407-823-6658

Admission Requirements
none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a "C" (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.
2. Common Program Prerequisites  none

3. Core requirements (24 hrs)
   a. Core (0 hrs)
      HUM 2210 Humanistic Traditions I       GEP
      HUM 2230 Humanistic Traditions II       GEP
      REL 2300 World Religions                   GEP
   b. Foundations in the Study of Religion and the Humanities (9 hrs)
      Select three courses, at least two must be from (1)
      (1) Religion
         PHI 3700 Philosophy of Religion
         REL 4110 Religion and the Arts
         POT 4632 Religion and Politics
         SYO 4200 Sociology of Religion
         REL 3131 Religion in America
         ANT 3241 Magic, Ritual, and Belief
      (2) Humanities and Classics
         HUM 3431 Ancient Humanities
         HUM 3435 Medieval Humanities
         HUM 3255 Modern Humanities
         HUM 3252 Contemporary Humanities
         CLA 3850 Classical Mythology
         CLA 3851 Comparative Mythology
      c. Traditions: Religion in a Global World (9 hrs)
         Select three courses:
         HUM 3401 Asian Humanities
         HUM 3417 Hindu Thought and Culture
         HUM 3419 Islamic Thought and Culture
         HUM 3552 Christian Thought
         JST 3553 Moses, Jesus, and Mohammed
         JST 3401 The Jewish People I
         or
         JST 3402 The Jewish People II
         ANT 3245 Native American Religions
         REL 3340 Buddhist Thought
   d. Applications: Topics and Issues in the Study of Religion (6 hrs)
      Select two courses:
      REL 3162 Healing: Culture, Art, and Praxis
      HUM 4554 Religious Quest and the Human Dilemma
      HUM 4303 The Spiritual Ideal
      PHI 3033 Philosophy, Religion, and the Environment
      REL 3115 Religion, Spirituality, and Popular Music
      REL 3111 Religion and Philosophy through Film
      REL 3432 Roots of Western Mysticism

4. Upper division Restricted Electives (9 hrs)
   Select three courses from the following list and/or the Core list above (if not being used to fulfill Core Requirements):
   HUM 3320 Contemporary Multicultural Studies
   HUM 4301 The Classical Ideal
   HUM 4330 Performance Theory
   PHI 4321 Philosophy of Embodiment: Mind/Body/Self
   PHI 3638 Ethical Issues in the 21st Century
   PHI 3431 Ways of Knowing
   PHI 4804 Critical Theory
   PHP 3786 Existentialism
   AML 3615 Harlem, Haiti, and Havana
   LIT 4374 Literature of the Bible
   LIT 3202 Death and Dying
   JST 3100 The Hebrew Creative Mind
   JST 3550 Introduction of Modernism into Judaism
   JST 3701 History of the Holocaust
   JST 3751 Literature of the Holocaust
   JST 3810 The Jewish National Movement and Roots of Zionism
   ASH 3222 Islam and its Empires
   ASH 3223 The Modern Middle East

Note: Relevant new or special topics courses in philosophy, humanities, or other relevant areas may be substituted for some required courses with prior approval by department advisor.

5. Honors in the Major
   Students considering graduate school in Religious Studies are strongly encouraged to take Honors in the Major. Requirements are as follows:

Core and Elective Requirements (30 hrs)

Honors Thesis (6 hrs)

Additional Requirements
- Application and admission through the Humanities Honors Coordinator and the Burnett Honors College
- Fulfill University requirements for Honors in the Major
- Earn a "B" (3.0) or better in both REL 4903H and REL 4970H
- Maintain a UCF GPA of at least 3.2 and a Religious Studies GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

6. Departmental Exit Requirements (3 hrs)
   - Either REL 4970H: Honors Thesis (3 hrs) or REL 4910 Senior Research Seminar (3 hrs).
   - Earn a “C” (2.0) or better in each required course
   - Computer Competency met by REL 4970H, REL 4910, or by STA 1060C.
   - To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

7. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement
   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

8. Electives (variable)
   Select primarily from upper level courses, with departmental advisor’s approval. May be outside the department.

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Philosophy, Humanities, Liberal Studies
Related Minor: Philosophy, Humanities, Judaic Studies, Religious Studies

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:
- One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same major.
- Consult a departmental advisor for alternate, new or more appropriate selections.

2006-2007 Undergraduate Catalog
RESTAURANT AND FOOD SERVICE
MANAGEMENT (B.S.)
Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000
http://www.hospitality.ucf.edu

Degree Requirements

1. UCF General Education Program (GEP) (36 hrs)
   A. Communications Foundations
   9 hrs
   B. Cultural and Historical Foundations
   9 hrs
   C. Mathematical Foundations
   Select MAC 1105 College Algebra
   3 hrs
   Select STA 2023 Statistical Methods
   3 hrs
   STA 2023 Statistical Methods I
   3 hrs
   Or
   Select ECO 2013 Macroeconomics
   3 hrs
   Or
   Select ECO 2023 Microeconomics
   3 hrs
   Select one:
   PSY 2012, SYG 2000, ANT 2000
   3 hrs
   E. Science Foundation
   6 hrs

2. Common Program Prerequisites (6 hrs)
   HFT 1000 Introduction to Hospitality Management
   3 hrs
   FSS 2221C Quantity Food Preparation
   3 hrs

3. Quantitative Tools
   CGS 2100CC Computer Fundamentals of Business
   or STAB 2023 Statistical Methods I
   3 hrs
   ECO 2013 Macroeconomics
   3 hrs
   or ECO 2023 Microeconomics
   3 hrs
   MAC 1105 College Algebra
   or GEP

4. Managerial Tools (25 hrs)
   HFT 2403 Hospitality Financial Accounting
   3 hrs
   HFT 2500 Hospitality Marketing
   3 hrs
   HFT 2220 Hospitality Human Resources
   3 hrs
   HFT 3444 Hospitality Information Systems
   3 hrs
   HFT 3600 Legal Environment in Hospitality
   3 hrs
   HFT 3431 Hospitality Managerial Accounting
   3 hrs
   HFT 3540 Guest Services Management
   3 hrs
   HFT 3281 Restaurant Management
   3 hrs
   HFT 3933 Distinguished Lectures in Hospitality Mgmt
   1 hr
   5. Internship
   (3 hrs)
   HFT 3941 Internship I
   1 hr
   HFT 4941 Internship II
   1 hr
   HFT 4944 Internship III
   1 hr

6. Restaurant Management Core (18 hrs)
   HFT 4288 Case Studies in Restaurant Management
   3 hrs
   HFT 4343 Hospitality Facilities, Planning and Design
   3 hrs
   FSS 3124 Supply and Procurement Management
   3 hrs
   FSS 4135 Corporate Contract & Managed Services Orgs
   3 hrs
   HFT 4266 Restaurant Brand Management
   3 hrs
   HFT 4281 Restaurant Leadership Strategies and Tactics
   3 hrs

7. Special College Requirements
   - Final exams will be given during Exam Week only.
   - Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management classes at UCF.

8. Restricted Electives (18 hrs)
   - Choose any courses from the list below for a total of 12 credit hours
     FSS 3223C Intermediate Techniques of Food Production
     3 hrs
     HFT 3807 Multi-Unit Food Service Operations
     3 hrs
     FSS 4286 Catering and Banquet Organization
     3 hrs
     HFT 4645 Restaurant Real Estate, Site Selection
     and Modeling
     3 hrs
     HFT 4861C Beverage Management
     3 hrs
     HFT 4425 Financial Analysis for Restaurant Managers
     3 hrs
     HFT 3574 Foodservice Marketing, Advertising,
     and Promotion Management
     3 hrs
     HFT 4269 Case Studies in Multi-Unit Restaurant Mgt
     3 hrs
     HFT 3654 Franchising in the Restaurant Industry
     3 hrs
     HFT 4281 Restaurant Leadership Strategies and Tactics
     3 hrs
     HFT 4453 Food, Beverage and Labor Cost Controls
     3 hrs
     FSS 2038 Culture and Promotion Management
     3 hrs
     HFT 3610 Law and Restaurant Management
     3 hrs
     HFT 3285 International Restaurant Corporation Management
     3 hrs
     HFT 4284 Training and Employee Performance in the
     Food Service Industry
     3 hrs
     HFT 3834 Topics in Restaurant & Foodservice Management
     3 hrs
     HFT 4864C Seminar in Quality Brewing
     3 hrs
     or Fine Beer
     3 hrs
     HFT 4866C Exploring Wines of the World
     3 hrs
     HFT 4844 Sanitation in the Food Service Industry
     3 hrs
     HFT 4462 Hospitality Industry Finance
     3 hrs
     HFT 4286 Hospitality Communications
     3 hrs
     HFT 4986 History of Wine and Culture
     3 hrs
     HFT 4984 International Gastronomy
     3 hrs

9. Foreign Language Requirements (0-8 hrs)
   State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

10. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 48 hours of upper division credit completed
   - 30 semester hours of coursework completed in residency (last 30 hours) at UCF
   - A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
   - Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable).

11. Unrestricted Electives (6 – 14 hrs)
   As necessary to result in 120 total credit hours.

UCF Degree Programs

Total Semester Hours Required 120 hrs
Community/Junior College Transfer Notes
   - Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF’s Rosen College of Hospitality Management.
   - Florida Public Community College students are encouraged to complete general education requirements, prior to transferring to UCF.
   - A minimum of 30 semester hours must be completed at UCF within the Rosen College of Hospitality Management.
   - Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

Four Year Plan of Study for B.S. Restaurant and Food Service Management
Plan your required nine summer credit hours into your course of study.

Freshman Year
Fall
ENC 1101 - Eng Comp I
3 hrs
ENC 1102 - Eng Comp II
3 hrs
Version Found Sequence I
3 hrs
Version Found Sequence II
3 hrs
HFT 1000 - Intro to Hosp Mgt
3 hrs
MAC 1105 - College Algebra
3 hrs
PSY 2012, SYG 2000, or ANT 2000
3 hrs
FSS 2221C - Quant Food Prep
3 hrs
2004-2005 Undergraduate Catalog

UNIVERSITY OF CENTRAL FLORIDA

UCF Degree Programs

Sophomore Year

Fall 15 Hrs Spring 15 Hrs
Science Foundation I 3 hrs Science Foundation II 3 hrs
ENC 1101 Composition I 3 hrs ENC 1102 Composition II 3 hrs
ECE 2051 ECE 2052
HFT 3261 - Restaurant Management 3 hrs HFT 3266 - Restaurant Management 3 hrs
HFT 3403 - Hospitality I 3 hrs HFT 3404 - Hospitality II 3 hrs
HFT 3320 - Hospitality Marketing 3 hrs HFT 3321 - Hospitality Marketing 3 hrs

Junior Year

Fall 14 Hrs Spring 16 Hrs
HFT 3540 - Guest Services Management 3 hrs HFT 4268 - Case Studies in F.S. 3 hrs
HFT 3466 - Restaurant Branding 3 hrs HFT 4266 - F.S. Contract & MS 3 hrs
HFT 3431 - Hospitality Management 3 hrs HFT 4243 - F.S. Equip. & Design 3 hrs
HFT 4261 - Leadership Strategies 3 hrs HFT 3941 - Leadership Strategies 3 hrs
HFT 3940 - Internship I 1 hr HFT 3941 - Internship II 1 hr
HFT 3933 - Dist Lecture in Hospitality 1 hr HFT 3933 - Dist Lecture in Hospitality 1 hr

Senior Year

Fall 15 Hrs Spring 15 Hrs
Rest & F.S. Elective 3 hrs Rest & F.S. Elective 3 hrs
Rest & F.S. Elective 3 hrs Rest & F.S. Elective 3 hrs
HFT 4944 - Internship III 1 hr Rest & F.S. Elective 3 hrs
Rest & F.S. Elective 3 hrs Rest & F.S. Elective 3 hrs
Unrestricted Electives 5 hrs Unrestricted Elective 3 hrs
Rest & F.S. Elective 3 hrs Rest & F.S. Elective 3 hrs
Rest & F.S. Elective 3 hrs Rest & F.S. Elective 3 hrs
Unrestricted Electives 3 hrs Unrestricted Elective 3 hrs

SCIENCE EDUCATION - BIOLOGY (B.S.)

College of Education
Department of Teaching and Learning Principles
ED 209
http://www.education.ucf.edu/
Program Coordinator: Dr. Aldrin Sweeney
ED 123-L, 407-823-2561
E-mail: awseenyeg@pegasus.cc.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

Degree Requirements
- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
A. Communication Foundations (9 hrs)
ENC 1101 Composition I
ENC 1102 Composition II
Select SPC 1600 - Fundamentals of Oral Communication

B. Cultural-Historical Foundations (9 hrs)
Select AMH 2010 - U.S. History 1492-1877
Select AMH 2020 - U.S. History 1877-Present
Select PHI 2010 - Introduction to Philosophy

C. Mathematical Foundations (6 hrs)
Select MGF 1106 - Finite Mathematics
Select: STA 1060C - Basic Statistics using MS Excel or STA 2044C - Principles of Statistics

D. Social Foundations (6 hrs)
Select POS 2041 - American National Government
Select PSY 2102 - General Psychology

E. Science Foundations (6 hrs)
Select PSC 1121 - Physical Science
Select: GEO 1030 - Geology and its Applications or GLY 1010 - Ecology and its Applications

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (31 hrs)
A. Communications (9 hrs)
ENC 1101 Composition I
ENC 1102 Composition II
SPC 1600 Fundamentals of Oral Communication

B. Humanities (6 hrs)
PHI 2010 - Introduction to Philosophy
Select one:
- ARH 2050 - History of Western Art I or
- ARH 2051 - History of Western Art II or
- MUL 2010 - Enjoyment of Music or
- THE 2000 - Theatre Survey or
- FIL 2000 - History of Motion Pictures

C. Mathematics (9 hrs)
MAC 2311 - Calculus I
MAC 2312 - Calculus II

D. Social Science/History (12 hrs)
AMH 2010 - U.S. History 1492-1877
AMH 2020 - U.S. History 1877-Present

E. Science (9 hrs)
PHY 2053C - College Physics I
PHY 2054C - College Physics II

F. Education Courses (9 hrs)
EDF 4214 - Classroom Learning Principles
EDG 4203 - Analysis of Critical Issues in Education

G. Diversity Courses (GEP)
Select one:
- FIL 2400 - History of Motion Pictures
- GLY 1030 - Geology and its Applications
- MUL 2010 - Enjoyment of Music

3. Education Core Requirements (15 hrs)
EDF 4203 - Professional Teaching Practices

4. Internship I Block (7 hrs)
SCE 4360 - Science Instructional Analysis
ESE 3940 - Internship I

5. Specialization Requirements (22 hrs)
PSC 1121 - Physical Science

6. Restricted Elective (3 hrs)
One 3000- or 4000-level BSC, MCB, PCB, or ZOO course with advisor's approval
7. Internship II (ESE 4943) (12 hrs)
- SCE 4360 and at least 80% of all required biology courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-5.065

8. Foreign Language Requirements (0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

9. Departmental Exit Requirements
- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. Total Program Semester Hours Required 126 hours
At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

12. Recommended Four-Year Sequence of Courses

**Freshman Year**
- Fall (12 hrs) Spring (15 hrs)
  - EDF 2005 3 hrs EDF 2701 3 hrs
  - ENC 1101 3 hrs ENC 1102 3 hrs
  - MGF 1106 3 hrs MAC 1105 3 hrs
  - PSY 2012 3 hrs PHI 2010 3 hrs

- Summer (6 hrs)
  - EME 2040 3 hrs
  - POS 2041 3 hrs

**Sophomore Year**
- Fall (17 hrs) Spring (16 hrs)
  - AMH 2010 3 hrs AMH 2020 3 hrs
  - BSC 2010C w/ lab 4 hrs BSC 211C 4 hrs
  - CHM 2045C 4 hrs CHM 2046 3 hrs
  - SPC 1600 3 hrs CHM 2205 5 hrs
  - STA 2041C 3 hrs

- Summer (6 hrs)
  - AST 2002 3 hrs
  - ARH 2050 or 3 hrs
  - MUL 2010 or 3 hrs
  - THE 2000 or 3 hrs
  - FIL 2400 3 hrs

**Junior Year**
- Fall (14 hrs) Spring (12 hrs)
  - EDF 4214 3 hrs MCB 3202C 5 hrs
  - EDG 4323 3 hrs PCB 3063 3 hrs
  - PCB 3044 3 hrs PCB 3063L 1 hr
  - PCB 3044L 1 hr TSL 4080 3 hrs

**Senior Year**
- Fall (13 hrs) Spring (12 hrs)
  - EDF 4603 3 hrs ESE 4943 12 hrs
  - ESE 3940 3 hrs SPC 4380 4 hrs
  - Upper div restricted elect 3 hrs
    (BSC/MCB/PCB/ZOO 3/4XXX)

**SCIENCE EDUCATION - CHEMISTRY (B.S.)**

**College of Education**
**Department of Teaching and Learning Principles**
**ED209**
http://www.education.ucf.edu/
Program Coordinator: Dr. Aldrin Sweeney
ED 123-L, 407-823-2561
E-mail: asweeney@pegasus.cc.ucf.edu

**Admission Requirements**
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete prerequisite courses

**Degree Requirements**
- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

**1. UCF General Education Program** (37 hrs)
- A. Communication Foundations (9 hrs)
  - ENC 1101 Composition I
  - ENC 1102 Composition II
- Select SPC 1600 Fundamentals of Oral Communication 3 hrs
- B. Cultural-Historical Foundations (9 hrs)
  - Select AMH 1010 U.S. History 1492-1877 3 hrs
  - Select AMH 2020 U.S. History 1877-Present 3 hrs
- Select PHI 2010 Introduction to Philosophy 3 hrs
- C. Mathematical Foundations (6 hrs)
  - Select MGF 1106 Finite Mathematics
  - Select one:
    - STA 1060C Basic Statistics using MS Excel
    - STA 2041C Principles of Statistics
- D. Social Foundations (6 hrs)
  - Prefer POS 2041 American National Government 3 hrs
  - Select PSY 2012 General Psychology 3 hrs
- E. Science Foundations (7 hrs)
  - PHY 2053C College Physics (includes lab) 4 hrs
  - Prefer Select one:
    - AST 2002 Astronomy
    - GEO 1200 Physical Geography
    - GLY 1030 Geology and its Applications

**2. Common Program Prerequisites** (23 hrs)
- A. Communications (9 hrs)
  - ENC 1101 Composition I
  - ENC 1102 Composition II
  - SPC 1600 Fundamentals of Oral Communication
- B. Humanities (6 hrs)
  - PHI 2010 Introduction to Philosophy
  - Select one:
    - ARH 2050 The History of Art I
    - ARH 2051 The History of Art II
    - MUL 2010 Enjoyment of Music
    - THE 2000 Theatre Survey
    - FIL 2400 History of Motion Pictures
- C. Mathematics (9 hrs)
  - MAC 1105 College Algebra
  - MGF 1106 Finite Mathematics
  - One of the following (per GEP) GEP
    - STA 1060C Basic Statistics using MS Excel
UCF Degree Programs

STA 2014C Principles of Statistics (12 hrs)

D. Social Science/History

AMH 2010 U.S. History 1492-1877 GEP
AMH 2020 U.S. History 1877-Present GEP
POS 2041 American National Government GEP
PSY 2012 General Psychology GEP

E. Science

BSC 2010C Biology I w/ Lab (9 hrs + lab)
PHY 2053C College Physics (includes lab) GEP
One of the following (per GEP)
AST 2002 Astronomy or GEO 1200 Physical Geography or GYL 1030 Geology and its Applications

F. Education Courses

EDF 2005 Introduction to Education 3 hrs
EDG 2701 Teaching Diverse Populations 3 hrs
EME 2040 Technology for Educators 3 hrs

G. Diversity Courses

Upper div restricted elect 3 hrs

H. Other Program Prerequisites

CHM 2045C Chemistry Fundamentals I w/lab 4 hrs

3. Education Pre-Professional Requirements

MAC 2114 College Trigonometry 3 hrs

4. Education Core Requirements

EDC 4323 Professional Teaching Practices 3 hrs
EDF 4603 Analysis of Critical Issues in Education 3 hrs
EDF 4214 Classroom Learning Principles 3 hrs
TSL 4080 Theory and Practice of Teaching ESOL 3 hrs
LAE 4361 Literacy Strategies for Mid/High School 3 hrs

5. Internship I Block (7 hrs)

SCE 4360 Science Instructional Analysis 4 hrs
ESE 3940 Internship 1 3 hrs

Program Internship I prerequisites: EDG 4323 and at least 50% of all required chemistry courses must be completed prior to Internship I with a minimum grade of “C-” in all of these prerequisite courses.

See additional requirements listed under College of Education, Office of Clinical Experiences.

6. Specialization Requirements

BSC 2010C Biology I CPP
CHM 2045C Chemistry Fundamentals I CPP
CHM 2046 Chemistry Fundamentals II 3 hrs
CHM 2046L Chemistry Fundamentals Lab 1 hr
PHY 2053C College Physics I GEP
PHY 2054C College Physics II 4 hrs
CHM 31020 Analytical Chemistry 5 hrs
CHM 2210 Organic Chemistry I 3 hrs
CHM 2211 Organic Chemistry II 3 hrs
CHM 2211L Organic Laboratory Techniques I 2 hrs
CHS 3501 Intro to Forensic Science 3 hrs
BCH 4053 Biochemistry I 3 hrs

7. Restricted Electives

One 3000- or 4000-level CHM, CHS, or BCH course with advisor’s approval (3 hrs)

8. Internship II (ESE4943) (12 hrs)

- SCE 4360 and at least 80% of all required chemistry courses must be completed before doing Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education 6A-10.065

9. Foreign Language Requirements

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.) (0-8 hrs)

10. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
  - Pass all applicable sections of the Florida Teacher Certification Examination.

11. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

12. Total Program Semester Hours Required 127 hrs

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

13. Recommended Four-Year Sequence of Courses

**SCIENCE EDUCATION - PHYSICS (B.S.)**

**College of Education**

**Department of Teaching and Learning Principles**, **ED 209**

http://www.education.ucf.edu/
Program Coordinator: Dr. Aldrin Sweeney
ED 123-L, 407-823-2561
E-mail: asweeney@pegasus.cc.ucf.edu

**Freshman Year**

**Fall** (12 hrs)
- EDF 2005 3 hrs
- ENC 1101 3 hrs
- MAC 1105 3 hrs
- PSY 2012 3 hrs
- ESE 4940 3 hrs
- BSC 2010C w/Lab 4 hrs

**Spring** (16 hrs)
- EDF 2005 3 hrs
- ENC 1101 3 hrs
- MAC 1105 3 hrs
- PSY 2012 3 hrs
- ESE 4940 3 hrs
- BSC 2010C w/Lab 4 hrs

**Sophomore Year**

**Fall** (16 hrs)
- AMH 2010 3 hrs
- EDF 4603 3 hrs
- ESE 4940 3 hrs
- CHM 2211L 2 hrs
- CHM 2045C w/Lab 4 hrs
- MAC 1114 3 hrs
- STA 2014C 3 hrs

**Spring** (14 hrs)
- AMH 2010 3 hrs
- EDF 4603 3 hrs
- ESE 4940 3 hrs
- CHM 2211L 2 hrs
- MAC 1114 3 hrs
- STA 2014C 3 hrs

**Junior Year**

**Fall** (14 hrs)
- EDF 4603 3 hrs
- ESE 4940 3 hrs
- CHM 2211L 2 hrs
- MAC 1114 3 hrs
- STA 2014C 3 hrs
- Upper div restricted elect (BCH/CHM/CHS 3/4XXX) 3 hrs

**Spring** (14 hrs)
- EDF 4603 3 hrs
- ESE 4940 3 hrs
- CHM 2211L 2 hrs
- MAC 1114 3 hrs
- STA 2014C 3 hrs

**Senior Year**

**Fall** (13 hrs)
- EDF 4603 3 hrs
- ESE 4940 3 hrs
- SCE 4360 4 hrs

**Spring** (12 hrs)
- EDF 4603 3 hrs
- ESE 4940 3 hrs
- SCE 4360 4 hrs

**Admission Requirements**

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida commu-
nity college or state university
- Have a minimum 2.5 GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses

Degree Requirements
- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations (9 hrs)
     - ENC 1101 Composition I
     - ENC 1102 Composition II
     - SPC 1600 Fundamentals of Oral Communication
   - B. Social-Historical Foundations (9 hrs)
     - Select AMH 2010 U.S. History 1492-1877
     - Select AMH 2020 U.S. History 1877-1914
   - C. Mathematical Foundations (6 hrs)
     - Select MATH 1030 College Algebra
     - Select one:
       - STA 100C Basic Statistics using MS Excel
       - STA 204C Principles of Statistics
   - D. Social Foundations (6 hrs)
     - Prefer POS 2041 American National Government
     - Select PSY 2021 General Psychology
   - E. Science Foundations (6 hrs)
     - Select PHY 2048 Physics for Engineers & Scientists I
     - Select one:
       - PHY 2049L Physics Lab for Engineers & Scientists I
     - G. Diversity Courses GEP
     - Select one:
       - ENC 1101 Composition I GEP
       - ENC 1102 Composition II GEP
     - GEP 2010 The History of Art I or
     - ARH 2051 The History of Art II or
     - MUL 2010 Enjoyment of Music or
     - THE 2000 Theatre Survey or
     - FIL 2400 History of Motion Pictures
   - H. Humanities (6 hrs)
     - Select one:
       - PHI 1011 Introduction to Philosophy
       - PHI 2010 Introduction to Philosophy GEP
     - STA 2014C Principles of Statistics
     - STA 2040C Statistics Using MS Excel
     - STA 2040C Principles of Statistics
   - I. Communication Foundations (9 hrs)
     - Select one:
       - ENC 1101 Composition I
       - ENC 1102 Composition II
   - J. Mathematics (10 hrs)
     - Select one:
       - MAC 2311 Calculus w/Analytic Geometry I
     - One of the following (per GEP)
       - STA 2014C Principles of Statistics

2. Common Program Prerequisites (21 hrs)
   - A. Communications (9 hrs)
     - ENC 1101 Composition I
     - ENC 1102 Composition II
     - SPC 1600 Fundamentals of Oral Communication
   - B. Humanities (6 hrs)
     - Select one:
       - PHI 1011 Introduction to Philosophy
   - C. Mathematics (10 hrs)
     - MAC 1105 College Algebra
     - MAC 2311 Calculus w/Analytic Geometry I
   - D. Social Science/History (12 hrs)
     - AMH 2010 U.S. History 1492-1877
     - AMH 2020 U.S. History 1877-Present
     - POS 2041 American National Government
   - E. Science (11 hrs + lab)
     - BSC 2010C Biology I w/Lab
     - PHY 2048L Physics for Engineers & Scientists I
     - Select one:
       - PHY 2049L Physics Lab for Engineers & Scientists I
   - F. Education Courses (9 hrs)
     - Select one:
       - EDF 4214 Classroom Learning Principles
     - TSL 4080 Theory and Practice of Teaching ESOL
   - G. Diversity Courses GEP

3. Education Core Requirements (15 hrs)
   - EDG 4222 Professional Teaching Practices
   - EDF 4603 Analysis of Critical Issues in Education
   - EDF 4214 Classroom Learning Principles
   - TSL 4080 Theory and Practice of Teaching ESOL
   - LAE 4361 Literacy Strategies for Mid/High School

4. Internship I Block (7 hrs)
   - SCE 4360 Science Instructional Analysis
   - ESE 3940 Internship I

5. Specialization Requirements (26 hrs)
   - BSC 2010C Biology I
   - CHM 2045C Chemistry Fundamentals I
   - CHM 2046 Chemistry Fundamentals II
   - CHM 2046L Chemistry Fundamentals Lab
   - MAC 2311 Calculus w/Analytic Geometry I
   - MAC 2312 Calculus w/Analytic Geometry II
   - PHY 2048 Physics for Scientists I
   - PHY 2048L Physics Lab for Engineers & Scientists I
   - PHY 2049 Physics for Scientists II
   - PHY 2049L Physics Lab for Engineers & Scientists II
   - PHY 2101 Physics for Engineers & Scientists III
   - PHY 3752C Physics of Scientific Instruments

6. Restricted Electives (8 hrs)
   - Fall (12 hrs) Spring (16 hrs)
     - MAC 2311 Calculus w/Analytic Geometry I
     - PHY 3752C Physics of Scientific Instruments

7. Internship II (ESE4943) (12 hrs)
   - SCE 4360 and at least 80% of all required physics courses must be completed prior to Internship II with a minimum grade of "C-" in all of these prerequisite courses.

8. Foreign Language Requirements (0-8 hrs)
   - State University System foreign language admission requirement:
     - two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

9. Departmental Exit Requirements
   - Achieve a minimum 2.5 GPA in all courses within the major.
   - Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
   - Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements
    - A 2.0 UCF GPA
    - 60 semester hours earned after CLEP awarded
    - 48 semester hours of upper division credit completed
    - 30 of the last 36 hours of course work must be completed in residence at UCF
    - 25% of course work must be completed in residency at UCF
    - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. Total Semester Hours Required 125 hours
    - At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

12. Recommended Four-Year Sequence of Courses
    - Freshman Year
      - Fall (12 hrs) Spring (16 hrs)
        - EDF 2005 3 hrs AST 2002 3 hrs
        - ENC 1101 3 hrs EDF 2011 3 hrs
        - MAC 1105 3 hrs ENC 1102 3 hrs
        - PSY 2012 3 hrs MAC 2311 4 hrs

    - Senior Year
      - Fall (12 hrs) Spring (16 hrs)
        - ESE 3940 3 hrs
UCF Degree Programs

SOCIAL SCIENCES (B.S.)

Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies

http://liberalstudies.info

E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

The Social Sciences program offers students an opportunity to become acquainted with the various fields of the Social Sciences and to better understand the relationships among those fields. Satisfactory completion of the program leads to the degree Bachelor of Science with a major in Social Sciences.

The program is administered through the Office of Liberal and Interdisciplinary Studies in the College of Arts and Sciences.

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared a Social Sciences major at least one semester before graduation.
- Co-op and internship credit cannot be used in this major.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Restricted Elective areas. Non-approved independent studies will not be counted towards the major.
- Students must earn at least a “C” (2.0) in each core requirement and restricted elective course.
- Students should consult with a Liberal Studies advisor when entering the program.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program

(A. Communication Foundations 9 hrs)
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 3 hrs
D. Social Foundations 3 hrs

2. Common Program Prerequisites

Select no more than two lower level Social Science courses in any one area in the Restricted Elective section.

*Asterisk indicates appropriate courses in the Restricted Electives section.

3. Core requirements

(3 hrs)

4. Restricted Electives

(60 hrs)

Select a minimum of 15 semester hours in each of four of the following six Social Science disciplines.

A. Communication

*COM 3311 Communication Research Methods 3 hrs

B. Economics

*ECO 2013 Principles of Macroeconomics 3 hrs

C. Political Science

*POS 2041 American National Government 3 hrs

D. Psychology

*PSY 2012 General Psychology 3 hrs

E. Public Affairs

Select one course

选 one course

5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in each of four Social Science disciplines.
- Computer Competency is met by the major.

6. Foreign Language Requirements

0-8 hrs)

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement (see a Liberal Studies advisor).

7. Electives

(variable)

Select primarily from upper level courses, with a Liberal Studies advisor’s approval.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours
### UCF Degree Programs

**SOCIAL SCIENCE EDUCATION (B.S.)**

**College of Education**

**Department of Teaching and Learning Principles, ED 209**

[http://pegasus.cc.ucf.edu/~wgaudell](http://pegasus.cc.ucf.edu/~wgaudell)

Program Coordinator: Dr. William Gaudelli

ED 115-H, 407-823-0215

E-mail: wgaudell@mail.ucf.edu

**Admission Requirements**

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university.
- Have a minimum 2.5 overall GPA.
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete prerequisite courses.

**Degree Requirements**

- Students should see an advisor prior to registering for classes.
- The courses designated in 1. (General Education) and 2. (Common Program Prerequisites) should be completed in the first 60 hours.

<table>
<thead>
<tr>
<th>1. UCF General Education Program</th>
<th>(36 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>(9 hrs)</td>
</tr>
<tr>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select SPC 1600 Fundamentals of Oral Communication</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Cultural-Historical Foundations</td>
<td>(9 hrs)</td>
</tr>
<tr>
<td>Select AMH 2010 U.S. History 1492-1877</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select AMH 2020 U.S. History 1877-Present</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select PHI 2010 Introduction to Philosophy</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>(6 hrs)</td>
</tr>
<tr>
<td>Select MGF 1106 Finite Mathematics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select one:</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics</td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>(6 hrs)</td>
</tr>
<tr>
<td>Prefer POS 2041 American National Government</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select PSY 2012 General Psychology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>(6 hrs)</td>
</tr>
<tr>
<td>Prefer PSC 1121 Physical Science</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select one:</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANT 2511 The Human Species or BSC 1005 Biological Principles</td>
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</tbody>
</table>

**Note:** See laboratory component under Section 2.

<table>
<thead>
<tr>
<th>2. Common Program Prerequisites</th>
<th>(25 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communications</td>
<td>(9 hrs)</td>
</tr>
<tr>
<td>ENC 1101 Composition I</td>
<td>GEP</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>GEP</td>
</tr>
<tr>
<td>SPC 1600 Fundamentals of Oral Communication</td>
<td>GEP</td>
</tr>
<tr>
<td>B. Humanities</td>
<td>(6 hrs)</td>
</tr>
<tr>
<td>PHI 2010 Introduction to Philosophy</td>
<td>GEP</td>
</tr>
<tr>
<td>Select one:</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ARH 2050 History of Western Art I or ARH 2051 History of Western Art II</td>
<td></td>
</tr>
<tr>
<td>MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey</td>
<td></td>
</tr>
<tr>
<td>FIL 2400 History of Motion Pictures</td>
<td></td>
</tr>
</tbody>
</table>

C. Mathematics | (9 hrs) |
| MAC 1105 College Algebra | 3 hrs |
| MGF 1106 Finite Mathematics | GEP |
| One of the following (per GEP) | |
| STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics | |

D. Social Science/History | (12 hrs) |
| AMH 2010 U.S. History 1492-1877 | GEP |
| AMH 2020 U.S. History 1877-Present | GEP |
| POS 2041 American National Government | GEP |
| PSY 2012 General Psychology | GEP |

E. Science | (9 hrs + lab) |
| PSC 1121 Physical Science | GEP |
| One of the following (per GEP) | |
| ANT 2511 The Human Species or BSC 1005 Biological Principles | |

F. Education Courses | (9 hrs) |
| EDF 4323 Professional Teaching Practices | 3 hrs |
| EDF 4603 Analysis of Critical Issues in Education | 3 hrs |
| EDF 4214 Classroom Learning Principles | 3 hrs |
| TSL 4080 Theory and Practice of Teaching ESOL | 3 hrs |

G. Diversity Courses | (6 hrs) |
| SYG 2000 General Sociology | 3 hrs |
| ECO 2013 Macroeconomics | 3 hrs |

**3. Education Core Requirements** | (15 hrs) |
| EDF 4323 Professional Teaching Practices | 3 hrs |
| EDF 4603 Analysis of Critical Issues in Education | 3 hrs |
| EDF 4214 Classroom Learning Principles | 3 hrs |
| TSL 4080 Theory and Practice of Teaching ESOL | 3 hrs |

**4. Internship I Block** | (7 hrs) |
| SSE 4361 Internship I 3 hrs |
| SSE 4361 should be taken concurrently with ESE 3940 |
| SSE 3940 Internship I 3 hrs |

**5. Specialization Requirements** | (27 hrs) |
| E E 4361 Social Science Instructional Analysis 4 hrs |
| SSE 3940 Internship I 3 hrs |
| SSE 3940 Internship I 3 hrs |
| SSE 3961 should be taken concurrently with ESE 3940 |
| SSE 3940 Internship I 3 hrs |

**6. Internship II** | (12 hrs) |
| SSE 4361 and at least 80% of all social science courses must be completed prior to doing Internship II |
| SSE 3940 Internship I 3 hrs |

<table>
<thead>
<tr>
<th>7. Foreign Language Requirements</th>
<th>(0-8 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language.</td>
<td></td>
</tr>
</tbody>
</table>

**Related Programs:** Liberal Studies, Liberal Arts

**Related Minors:** Anthropology, Communication, Economics, Political Science, Psychology, Public Administration, Sociology

**Transfer Notes:**

- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

**Acceptable Substitutes** for common program prerequisites if taken prior to transferring to UCF:

- Any two introductory Social Sciences courses could meet admission requirements. However, the indicated courses are prerequisites for subsequent courses and must be taken.


8. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

10. Total Program Semester Hours Required 122 hrs

At the time this catalog went to press, actions were underway to reduce this degree program length to 120 hours. Consult with your advisor and review your degree audit for more recent information.

11. Recommended Sequence of Program Courses:

Freshman Year

**Fall** (12 hrs)  **Spring** (15 hrs)

- EDF 2005 3 hrs
- ENC 1101 3 hrs
- MGF 1108 3 hrs
- PSY 2012 3 hrs

**Summer** (6 hrs)

- EME 2040 3 hrs
- SPC 1500 3 hrs

**Sophomore Year**

**Fall** (16 hrs)  **Spring** (15 hrs)

- AMH 2010 3 hrs
- ECO 2013 3 hrs
- PSC 1121 3 hrs
- STA 201AC 3 hrs
- SYG 2000 3 hrs

**Summer** (3 hrs)

- ARH 2050 or MUL 2010 or THE 2000 or FIL 2420

**Junior Year**

**Fall** (15 hrs)  **Spring** (13 hrs)

- EDF 4214 3 hrs
- EDG 4023 3 hrs
- EUH 2000 3 hrs
- Upper Div Non-Western 3 hrs
- Upper Div Hist Elect (APH/ASH/TLA 3/4XXX)
- Upper Div Political 3 hrs
- Sci Elect (POS 3/4XXX)

**Summer** (3 hrs)

- EUH 2001 3 hrs

**Senior Year**

**Fall** (12 hrs)  **Spring** (12 hrs)

- EDF 4603 3 hrs
- LAE 4361 3 hrs
- TSL 4080 3 hrs
- Upper Div Am Hist elective (AMH 3/4XXX)

**Admission Requirements - Limited Access**

Acceptance to the University does not necessarily constitute admission to the upper division social work program. Separate application to the limited access program must be made to the School of Social Work. Students are admitted to the undergraduate program only in the Summer or Fall terms. To be considered for admission to the program, students must have:

- Admission to the University
- A 2.5 overall GPA
- An AA (from a Florida State Community College) or UCF General Education Program, Gordon Rule, and CLAST
- 15 semester hours common program prerequisites (see Section 2 below for list of courses)
- This limited access program is work-intensive. Due to this it is strongly recommended that students be at least one year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.

Personal qualifications reviewed for acceptance include intelligence, initiative, social concern, appreciation for human diversity, dependability, humanitarian interests in helping people and in improving human services as well as college-level reading and writing skills.

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog
- Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF School of Social Work
- Students should complete the General Education Program, the CLAST and the Common Program Prerequisite Requirements before beginning the Social Work Program
- Students should consult with a school advisor
- The courses designated in sections 1 (general education) and 2 (common program prerequisites) below may be taken at a college or university other than UCF, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 is required in all Social Work courses with at least a grade of “C-” in each course.
- Students must earn an overall GPA of 2.5 for entry into field education (SOW 4510) and graduation from the Social Work Program
- Students must complete all the requirements listed in 1-11 below

1. **UCF General Education Program** (36 hrs)

   **A. Communication Foundations**
   - 9 hrs
   - Prefer SPC 1500

   **B. Cultural Historical Foundations**
   - 9 hrs
   - Select MGF 1106 Finite Math

   **C. Mathematical Foundations**
   - 6 hrs
   - Select STA 201AC-Principles of Statistics or STA 2023 Statistical Methods I

   **D. Social Foundations**
   - 6 hrs
   - 1. Select POS 2041
   - 2. Select PSY 2012

   **E. Science Foundations**
   - 6 hrs
   - Select BSC 1005 or MCB 1310
   - Select a listed science course

2. **Common Program Prerequisites** (15 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 2041</td>
<td>American Government</td>
</tr>
<tr>
<td>BSC 1005</td>
<td>Biology</td>
</tr>
<tr>
<td>ECO 2013 or ECO 2023</td>
<td>Microeconomics</td>
</tr>
<tr>
<td>PSY 2012</td>
<td>Psychology</td>
</tr>
<tr>
<td>SYG 2001</td>
<td>Sociology</td>
</tr>
</tbody>
</table>

3. **Core Requirements** (45 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>SOW 3104</td>
<td>Assessing I: Human Development</td>
</tr>
<tr>
<td>SOW 3203</td>
<td>Social Work and Community Resources</td>
</tr>
<tr>
<td>SOW 3300</td>
<td>Practice I: Generalist Practice in Social Work</td>
</tr>
<tr>
<td>SOW 3111</td>
<td>Assessing II: Human Systems</td>
</tr>
<tr>
<td>SOW 3352</td>
<td>Practice II: Interpersonal Skills in Social Work Practice</td>
</tr>
<tr>
<td>SOW 3401</td>
<td>Social Work Research</td>
</tr>
<tr>
<td>SOW 4620</td>
<td>Social Work with Diverse Populations</td>
</tr>
<tr>
<td>SOW 4730</td>
<td>Documentation in Social Work Practice and Service Programs</td>
</tr>
<tr>
<td>SOW 4232</td>
<td>Social Welfare Policies and Issues</td>
</tr>
</tbody>
</table>

**SOCIAL WORK (B.S.W.)**

**College of Health and Public Affairs**

HPA1 204, 407-823-2114

http://www.cohpa.ucf.edu/social/

**Director:** Mary Van Hook

**Undergraduate Program Coordinator:** Robin Kohn

E-mail: rkohn@mail.ucf.edu

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>SOW 3104</td>
<td>Assessing I: Human Development</td>
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<tr>
<td>SOW 3203</td>
<td>Social Work and Community Resources</td>
</tr>
<tr>
<td>SOW 3300</td>
<td>Practice I: Generalist Practice in Social Work</td>
</tr>
<tr>
<td>SOW 3111</td>
<td>Assessing II: Human Systems</td>
</tr>
<tr>
<td>SOW 3352</td>
<td>Practice II: Interpersonal Skills in Social Work Practice</td>
</tr>
<tr>
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<tr>
<td>SOW 4730</td>
<td>Documentation in Social Work Practice and Service Programs</td>
</tr>
<tr>
<td>SOW 4232</td>
<td>Social Welfare Policies and Issues</td>
</tr>
</tbody>
</table>
Children's Services Certificate: This certificate is open only to students in the undergraduate social work program (BSW). The Children’s Services Certificate is designed to prepare students to work with children and families who are facing issues of abuse or neglect, or are involved in some way with the child welfare system. Students learn to assess abuse and neglect and to develop appropriate ways to work with the families and elements of the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.

Addictions Certificate: This certificate is open only to students in the undergraduate social work program (BSW). Addiction courses may be taken as electives by non-majors and be applied to the state certification. The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers.

Admissions: Two years of one foreign language in high school, or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Sociology (B.A.)

College of Sciences
Department of Sociology and Anthropology
PH 403, 407-823-2227
http://www.cas.ucf.edu/soc_anthro
E-mail: sociology@ucf.edu
J. Corzine, 407-823-2227

The Sociology curriculum emphasizes critical examination of various components of society. The purpose of the curriculum is to increase students' social awareness and their ability to interpret social institutions and behavior.
Admission Requirements

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Sociology and Anthropology Department.
- Students must maintain a UCF GPA of at least 2.0 in all courses used for the major.
- Students must have a "C" (2.0) or higher in all core courses.
- Co-op credit cannot be used in this major.
- Students should consult annually with a departmental advisor.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural and Historical Foundations 9 hrs
   - C. Mathematical Foundations
     1. Prefer MAC 1105 (or higher) 3 hrs
     2. Prefer STA 2014C 3 hrs
   - D. Social Foundations
     1. Select a listed course 3 hrs
     2. Select SYG 2000 3 hrs
   - E. Science Foundations 6 hrs

2. Common Program Prerequisites (It is suggested that transfer students complete two lower-level courses with the prefix SYA, SYD, SYG, SYO, or SYP.)

3. Core requirements (15 hrs)
   - SYG 2000 General Sociology
   - SYA 3400 Research Methods and Statistics 4 hrs
   - SYA 4300 Research Methods 4 hrs
   - SYA 4450 Data Analysis 4 hrs
   - SYA 3110 Development of Social Thought 3 hrs

4. Restricted Electives (27 hrs)
   Select from the following
   - SYG 2000 General Sociology
   - SYA 3120 Modern Sociological Thought
   - SYA 4650CC Applied Sociology
   - SYA 5525 Proseminar
   - SYA 5937 Advanced Population
   - SYD 3410 Urban Sociology
   - SYD 3700 Race & Ethnic Minorities in the US
   - SYD 3800 Sex Roles in Modern Society
   - SYD 4020 Anthropology
   - SYD 4510 Environmental Sociology
   - SYD 4810 Women in Contemporary Society
   - SYD 5813 Women and Social Policy
   - SYG 2010 Social Problems
   - SYG 3400 Research Methods and Statistics 4 hrs
   - SYG 4300 Research Methods 4 hrs
   - SYD 3410 Sociology of Mental Illness
   - SYO 3530 Social Stratification
   - SYO 4100 Family Trends
   - SYO 4200 Sociology of Religion
   - SYO 4250 Sociology of Education
   - SYO 4300 Political Sociology
   - SYO 4400 Medical Sociology
   - SYO 3300 Collective Behavior
   - SYO 3400 Social Change
   - SYO 3510 Sociology of Deviant Behavior
   - SYO 3511 Sociology of Murder
   - SYO 3520 Criminology
   - SYO 3530 Juvenile Delinquency
   - SYO 3540 Sociology of Law
   - SYO 3551 Sociology of Alcoholism
   - SYO 3562 Socio Perspect on Domestic Violence
   - SYO 3602 Sociology of Popular Music
   - SYO 3630 Sociology of Popular Culture
   - SYO 3650 Sociology and Sport
   - SYO 4000 Sociological Social Psychology
   - SYO 4004 Constructing Social Issues
   - SYO 4323 Social Systems and Diversity
   - SYO 4514 Sociology of Violence
   - SYO 4521 Criminal Victimization in Society
   - SYO 4536 Gangs and Society
   - SYO 4550 Sociology of Drug Abuse
   - SYA 4450 Data Analysis
   - SYA 4650CC Applied Sociology
   - SYA 5525 Proseminar
   - SYA 5937 Advanced Population
   - SYD 3410 Urban Sociology
   - SYD 3700 Race & Ethnic Minorities in the US
   - SYD 3800 Sex Roles in Modern Society
   - SYD 4020 Anthropology
   - SYD 4510 Environmental Sociology
   - SYD 4810 Women in Contemporary Society
   - SYD 5813 Women and Social Policy
   - SYG 2010 Social Problems
   - SYG 3400 Research Methods and Statistics 4 hrs
   - SYG 4300 Research Methods 4 hrs
   - SYD 3410 Sociology of Mental Illness
   - SYO 3530 Social Stratification
   - SYO 4100 Family Trends
   - SYO 4200 Sociology of Religion
   - SYO 4250 Sociology of Education
   - SYO 4300 Political Sociology
   - SYO 4400 Medical Sociology
   - SYO 3300 Collective Behavior
   - SYO 3400 Social Change
   - SYO 3510 Sociology of Deviant Behavior
   - SYO 3511 Sociology of Murder
   - SYO 3520 Criminology
   - SYO 3530 Juvenile Delinquency
   - SYO 3540 Sociology of Law
   - SYO 3551 Sociology of Alcoholism
   - SYO 3562 Socio Perspect on Domestic Violence
   - SYO 3602 Sociology of Popular Music
   - SYO 3630 Sociology of Popular Culture
   - SYO 3650 Sociology and Sport
   - SYO 4000 Sociological Social Psychology
   - SYO 4004 Constructing Social Issues
   - SYO 4323 Social Systems and Diversity
   - SYO 4514 Sociology of Violence
   - SYO 4521 Criminal Victimization in Society
   - SYO 4536 Gangs and Society
   - SYO 4550 Sociology of Drug Abuse

5. Departmental Exit Requirements
- A minimum GPA of 2.0 in all courses used for the major.
- A minimum grade of "C" (2.0) in all core courses.
- Computer Competency met by SYA 4450.
- Students will be required to take a standard exit exam.

6. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement.
   Graduation: Proficiency equivalent to 2 semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. The third semester may be replaced by a departmentally approved enhancement course. See the department for the list of courses.

7. Enhancement Requirement (0-3 hrs)
   Demonstrate proficiency equivalent to a third semester of a language, or complete an Enhancement course on the list maintained by the department.

8. Electives (variable) Select primarily from upper level courses, with departmental advisor’s approval. These courses may be outside of the department.

9. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of coursework must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 120 hours

Related Programs: Anthropology, Criminal Justice
Related Minors: African-American Studies, American Studies, Anthropology, Anthropology in Multicultural Studies, Asian Studies, Canadian Studies, Judaic Studies, Latin American Studies, Russian Area Studies, Sociology, and Women’s Studies
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
- Math test See catalog 0

Freshman Year

Fall
- ENC 1101 Composition I
- MAC 1105* req# 1101
- SYG 2000 General Sociology
- SPN 1120* req# Lang/Elect

Spring
- ENC 1102 Composition II
- STA 2014C Prin of Statistics
- SYG 2010 Social Problems
- SPN 1121* req# Lang/Elect
D. Social Foundations 6 hrs
C. Mathematical Foundations 6 hrs
B. Cultural and Historical Foundations 9 hrs

Students must see their departmental advisor to obtain proper Co-op or internship credit cannot be used in this major

Language credit by exam will not be given in courses lower in

Departmental Residency Requirement consists of at least 18

Students must earn at least a "C" (2.0) in each upper division

At least 30 hours must be taken in Modern Language courses
At least 6 of the 36 Spanish credits must be at the 4000 level
36 credits in Spanish must be taken at the 3000 level or above

Students who change degree programs and select this major must

Native speakers, or students who have received advanced education abroad must sub-

Placement in language courses is based on one year of high school language being equivalent to one semester of college work. For example, four years of high school Spanish place the student in the first semester of the third year.

Native Spanish speakers, near-native Spanish speakers, or students who have received advanced education abroad must substitute select classes.

Degree Requirements
Students who change degree programs and select this major must adopt the most current catalog.

36 credits in Spanish must be taken at the 3000 level or above
At least 6 of the 36 Spanish credits must be at the 4000 level
At least 30 hours must be taken in Modern Language courses taught in Spanish
Students must earn at least a "C" (2.0) in each upper division Spanish course

Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures

Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.

Co-op or internship credit cannot be used in this major
Students must see their departmental advisor to obtain proper counseling and have their schedule approved before registering for courses in their major

Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
Prefer MGF 1106 Finite Mathematics (may substitute a higher level math)
Prefer STA 1060C Statistics Using Excel 3 hrs
D. Social Foundations 6 hrs
**UCF Degree Programs**

**Suggested Plan of Study:**
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>Freshman Year</td>
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<tr>
<td>Fall</td>
<td>ANT 2000* req# 102-GEP</td>
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</tr>
<tr>
<td>ECC 1101 Composition I</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>MGF 1106* req# 11C-GEP</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SPN 1120* req# 2-CPP</td>
<td>3</td>
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<tr>
<td>Elective* Check restrictions</td>
<td>3</td>
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<tr>
<td>Spring</td>
<td>ENC 1102 Composition II</td>
<td>3</td>
</tr>
<tr>
<td>STA 1060C req# 112-GEP</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SPN 1121* req# 2-CPP</td>
<td>3</td>
<td></td>
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<td>Elective* Check restrictions</td>
<td>4</td>
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<tr>
<td>Sophomore Year</td>
<td></td>
<td></td>
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<tr>
<td>Fall</td>
<td>AMH 2010* req# 11B-GEP</td>
<td>3</td>
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<tr>
<td>ARH 2050* req# 11B-GEP</td>
<td>3</td>
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<tr>
<td>POS 2041* req# 101-GEP</td>
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<tr>
<td>PSC 1121* req# 11E1-GEP</td>
<td>3</td>
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<tr>
<td>SPN 2200* req# 2-CPP</td>
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<td>Elective* Check restrictions</td>
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<tr>
<td>Spring</td>
<td>BSC 105* req# 112-GEP</td>
<td>3</td>
</tr>
<tr>
<td>MUL 2010* req# 112-GEP</td>
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<td></td>
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<tr>
<td>COM 1000* req# 1A3-GEP</td>
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<td></td>
</tr>
<tr>
<td>SPN2201* req# 2-CPP</td>
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</tr>
<tr>
<td>Junior Year</td>
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<tr>
<td>Fall</td>
<td>SPN 3300 Adv Spa Gram Comp</td>
<td>3</td>
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<tr>
<td>SPN 3420 Spanish Comp</td>
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<td></td>
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<tr>
<td>SPN 3760 Adv Spa Oral Comm</td>
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<tr>
<td>Spring</td>
<td>SPW 3101* req# 3-Core</td>
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<tr>
<td>SPN 4780* req# 4a-ResElec</td>
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<tr>
<td>SPN 3141* req# 4b-ResElec</td>
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<td>Senior Year</td>
<td></td>
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</tr>
<tr>
<td>Fall</td>
<td>SPW 3100* req# 3-Core</td>
<td>3</td>
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<tr>
<td>SPW 4520* req# 4C-ResElec</td>
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<tr>
<td>SPN 3700* req# 4D-ResElec</td>
<td>3</td>
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<td>3</td>
<td></td>
</tr>
<tr>
<td>Spring</td>
<td>SPW 3131* req# 4b-ResElec</td>
<td>3</td>
</tr>
<tr>
<td>SPW 4381* req# 4b-ResElec</td>
<td>3</td>
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</tr>
<tr>
<td>Elective* Check restrictions</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**SPORTS AND FITNESS (B.S.)**

**College of Education**

Department of Teaching and Learning Principles, ED209

http://pegasus.cc.ucf.edu/~sportfit/

Program Coordinator: Dr. Michael Kehoe

E-mail: mkehoe@mail.ucf.edu

(This program is only offered at UCF at South Lake)

**Admission Requirements**

- Complete the University General Education Requirements or its equivalent, i.e., an AA degree from an approved Florida community college or state university; or the AS degree from the affiliated program at Lake Sumter Community College.
- Have a minimum 2.0 overall GPA.
- Meet the University CLAST or CLAST Alternative criteria.
- Complete prerequisite courses.

**Degree Requirements**

- Students should consult with an advisor on a regular basis and prior to registration.
- Students who change degree programs and select this major must adopt the most current catalog.
- Students should see an advisor prior to selecting this major, and at least annually thereafter.
- Students must earn at least a “C-” (1.75) in each required course and maintain an overall GPA of at least a 2.0.
- Prior to participation in Sports and Fitness Practicum I and Practicum II listed below, students must have achieved admission into one of the areas of specialization listed and described below.
- Students must meet with their advisor prior to enrollment in Sports and Fitness Practicum I and Practicum II to complete departmental approval process of the organization with which they will be working.

**1. UCF General Education Program**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1102 Composition II</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1600 Fundamentals of Oral Comm</td>
<td>3</td>
</tr>
<tr>
<td>PreReq AMH 2010 U.S. History 1877-Present</td>
<td>3</td>
</tr>
<tr>
<td>PreReq AMH 2010 U.S. History 1877-Present</td>
<td>3</td>
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**2. Sports and Fitness Lower Division**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PET 2622C Human Injuries</td>
<td>3</td>
</tr>
<tr>
<td>ZOO 3368C Exercise Physiology anatomy</td>
<td>4</td>
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</tbody>
</table>

**3. Lower Division Electives**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>PET 4625 Human Injuries</td>
<td>3</td>
</tr>
<tr>
<td>PET 4763 Coaching Methods and Principles</td>
<td>3</td>
</tr>
<tr>
<td>PET 4625 Human Injuries - Mechanisms and Prevention</td>
<td>3</td>
</tr>
<tr>
<td>PET 4401 Administration &amp; Evaluation</td>
<td>3</td>
</tr>
<tr>
<td>PET 4491 Legal Issues in Sports and Fitness</td>
<td>3</td>
</tr>
<tr>
<td>PET 4550 Fitness Assessment and Exercise</td>
<td>3</td>
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</table>

**4. Sports & Fitness Core**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>PET 3361 Nutrition for Sports and Fitness</td>
<td>3</td>
</tr>
<tr>
<td>PET 3775 Health and Conditioning Concepts</td>
<td>3</td>
</tr>
<tr>
<td>PET 4083C Practical Fitness Training</td>
<td>3</td>
</tr>
<tr>
<td>PET 4625 Human Injuries - Mechanisms and Prevention</td>
<td>3</td>
</tr>
</tbody>
</table>

**5. Specialization**

**Select One Option:**

**Option A: Coaching**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 3765 Coaching Theory</td>
<td>3</td>
</tr>
<tr>
<td>PET 4763 Coaching Methods and Principles</td>
<td>3</td>
</tr>
<tr>
<td>PET 4625 Human Injuries - Mechanisms and Prevention</td>
<td>3</td>
</tr>
<tr>
<td>PET 4083C Practical Fitness Training</td>
<td>3</td>
</tr>
<tr>
<td>PET 4625 Human Injuries - Mechanisms and Prevention</td>
<td>3</td>
</tr>
</tbody>
</table>

**Option B: Fitness**

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 4625 Sports and Fitness Practicum</td>
<td>6</td>
</tr>
<tr>
<td>PET 4826 Sports and Fitness Practicum</td>
<td>12</td>
</tr>
</tbody>
</table>

During the final year of the program, students will complete Practicum requirements with a Sports or Fitness Organization. These experiences will provide the student with actual professional experiences and practical hands-on knowledge of the career in which they have chosen to work. The design of Practicum I will be that of an observational and analytical role. During Practicum II, the student will be given responsibilities and assignments through the organization in which they have been placed and will carry an active role in the operation of the organization.

In both Practicum I and Practicum II, the student will be working directly with a Placement Coordinator in the organization and their University Supervisor. The University Supervisor will maintain periodic contact with the Placement Coordinator to check performance status. The Sports and Fitness program has developed tremendous opportunity through associations with partners in the Clermont and greater Orlando areas. Students will not be limited to these organiza-
zations. Students will have the option to arrange their own practicum experience if they so choose. In either case, before enrolling in either Practicum I or Practicum II, students must meet with their advisor to provide organization contact information and gain Practicum Placement Approval.

The students will be instructed that they will be representing not only themselves while on site during their Practicum experiences, but also the University of Central Florida and the Sports and Fitness Program. Professionalism in manner, dress and job performance will be expected at all times. Should there be any question of the performance of the students during their practicum experience, they will be required to meet with their University Supervisor and their Faculty Advisor for a performance evaluation before returning to the Practicum site. The performance concerns will be addressed and a plan of action will be developed. If the problems persist and the situation warrants, the students may be removed from their Practicum experience.

8. Foreign Language
(0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

9. Exit Requirements
- A minimum overall GPA of 2.5.
- 48 semester hours of upper division credit completed.
- 30 semester hours in regular courses completed at UCF.
- Specialization Certification.
- Participation in event operations of a minimum of one major sports and fitness event
- Successful completion of 18 hours of Practicum Experiences.

10. Total Program Semester Hours Required
(120 hrs)

11. Recommended Four-Year Sequence of Courses

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Fall (12 hrs)</th>
<th>Spring (16 hrs)</th>
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<tbody>
<tr>
<td>*CGS 1060C or EME 2040</td>
<td>3 hrs</td>
<td>AMH 2010 3 hrs</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>3 hrs</td>
<td>ENC 1102 3 hrs</td>
</tr>
<tr>
<td>*MGF 1106</td>
<td>3 hrs</td>
<td>MAC 1105 3 hrs</td>
</tr>
<tr>
<td>PSC 1211</td>
<td>3 hrs</td>
<td>SPC 1600 3 hrs</td>
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<table>
<thead>
<tr>
<th>Sophomore Year</th>
<th>Fall (14 hrs)</th>
<th>Spring (12 hrs)</th>
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<tbody>
<tr>
<td>PSY 2012</td>
<td>3 hrs</td>
<td>PET 2620C 3 hrs</td>
</tr>
<tr>
<td>STA 1060C or STA 2014C</td>
<td>3 hrs</td>
<td>POS 2041 3 hrs</td>
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<tr>
<td>ZOO 3764C</td>
<td>4 hrs</td>
<td>AMH 2020 3 hrs</td>
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<tr>
<td>Specialization electives (PEL/PEM/PEO/PET XXX)</td>
<td>4 hrs</td>
<td>Specialization electives 3 hrs</td>
</tr>
</tbody>
</table>

| Summer (6 hrs) | PHL 2010 | Humanities electives 3 hrs |

<table>
<thead>
<tr>
<th>Junior Year</th>
<th>Fall (15 hrs)</th>
<th>Spring (15 hrs)</th>
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<tbody>
<tr>
<td>PET 3137</td>
<td>3 hrs</td>
<td>PET 3408 3 hrs</td>
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<tr>
<td>PET 3493</td>
<td>3 hrs</td>
<td>PET 4215 3 hrs</td>
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<tr>
<td>PET 4401</td>
<td>3 hrs</td>
<td>PET 4312 3 hrs</td>
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<tr>
<td>PET 4550</td>
<td>3 hrs</td>
<td>PET 4491 3 hrs</td>
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<tr>
<td>Specialization</td>
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<tr>
<td>Option A (Coaching): Upper division restricted elective (see advisor)</td>
<td>3 hrs</td>
<td>PET 4763 3 hrs</td>
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<td>or</td>
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<tr>
<td>Specialization</td>
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<tr>
<td>Option B (Fitness): PET 3776</td>
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<table>
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<th>Summer (3 hrs)</th>
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<tbody>
<tr>
<td>Option A (Coaching): PEO 2624 or PEO 3324 or PEO 3844</td>
<td>3 hrs</td>
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<tr>
<td>or</td>
<td>Specialization</td>
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<tr>
<td>Option B (Fitness): Upper division restricted elective (see advisor)</td>
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**Senior Year**

<table>
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<th>Fall (12 or 15 hrs)</th>
<th>Spring (12 or 15 hrs)</th>
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<tbody>
<tr>
<td>PET 3462</td>
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<tr>
<td>PET 4635</td>
<td>3 hrs</td>
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<tr>
<td>PET 4085C</td>
<td>3 hrs</td>
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<tr>
<td>Specialization Option A (Coaching): PET 3765 3 hrs</td>
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</table>

*Please see your faculty Advisor for course selection. A.S. students should consult with their community college advisor for selection of electives.

**STATISTICS (B.S.)**

**College of Sciences**

**Department of Statistics and Actuarial Science**

**CC II 212, 407-823-2289**

**http://www.cas.ucf.edu/statistics**

**E-mail:** statistics@ucf.edu

Nizam Uddin, 407-823-2692

**Admission Requirements**

None

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- All statistics courses except STA 2023, STA 3032, and those protected by Florida Common Course Numbering must be taken from, or approved by the Statistics Department at UCF.
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department.
- Students must earn at least a "C" (2.0) in each STA course.
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. **UCF General Education Program**

(36 +3 hrs)

**Note:** Certain courses must be selected in the GEP for this major bringing the total hours to more than 36)

**A. Communication Foundations**

- 9 hrs

**B. Cultural and Historical Foundations**

- 9 hrs

**C. Mathematical Foundations**

- 7 hrs

- Select MAC 2311 4 hrs
- Select STA 2023 3 hrs

**D. Social Foundations**

- 6 hrs

**E. Science Foundations**

- Select BSC 2010C 4 hrs
- Select PHY 2053C or CHM 2045C 4 hrs

2. **Common Program Prerequisites**

(7 hrs)

- COP 3502C* Computer Science I 3 hrs
- MAC 2311 Calculus with Analy Geo I 4 hrs
- MAC 2312 Calculus with Analy Geo II 4 hrs
- BSC 2010C* Biology I 4 hrs

*See Transfer Notes for possible substitutes

3. **Core requirements**

(51 hrs)

- STA 2023 Statistical Methods I 3 hrs
- STA 4102 Computer Process of Stat Data 3 hrs
- STA 4163 Statistical Methods II 3 hrs
- STA 4164 Statistical Methods III 3 hrs
- STA 4321 Statistical Theory I 3 hrs
- STA 4322 Statistical Theory II 3 hrs
- COT 4500 Numerical Calculus 3 hrs
- MAC 2313 Calculus with Analy Geo III 4 hrs
- ENC 3241 Writing for the Tech Professional 3 hrs
- CHM 2045C or PHY 2053C 3 hrs
- COP 3223 3223* Intro to Programming in C* 3 hrs

*a may substitute an approved programming language course

a. Select one course 4 hrs
- MAS 3106 Linear Algebra
- MAS 3105 Linear and Matrix Algebra

b. Select one course 3 hrs
- COP 3100C Introduction to Discrete Structure
- MGH 3302 Logic and Proof in Mathematics

c. Select three from among the following: 9 hrs
-
UCF Degree Programs

STATISTICS - ACTUARIAL SCIENCE TRACK (B.S.)
See Actuarial Science (B.S)

TECHNICAL EDUCATION AND INDUSTRY TRAINING (B.S.)
College of Education
Department of Teaching and Learning Principles, ED 209
http://reach.ucf.edu/~technicaled/
Program Coordinator: Jo Ann M. Whiteman
ED 122-T, 407-823-2848
E-mail: jwhiteman@mail.ucf.edu

This program is only available online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see http://distrib.ucf.edu/home.

Admission Requirements
- Complete the University General Education requirements or its equivalent, (i.e., an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Meet the University CLAST or CLAST alternative criteria
- Complete prerequisite courses

Degree Requirements
- Students should consult with an advisor prior to registration.

For students in adult Technical Education and Industry Training. This degree does not lead to teacher certification at the state level.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
      ENC 1101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
      Select SPC 1600 Fundamentals of Oral Communication 3 hrs
   B. Cultural-Historical Foundations (9 hrs)
      Select MGF 1106 Finite Mathematics 3 hrs
      Select SPC 1008 American History I 3 hrs
      Select SPC 1009 American History II 3 hrs
   C. Mathematical Foundations (6 hrs)
      Select MGF 1106 Finite Mathematics 3 hrs
2. Common Program Prerequisites (9 hrs)

EVE 2005 Introduction to Education 3 hrs
EDG 2701 Teaching Diverse Populations 3 hrs
EME 2040 Technology for Educators 3 hrs

3. Program Core Requirements (27 hours)

EVT 3365 Gen Method/Test Eval 3 hrs
EVT 3062 Professional Role Voc Ed Teacher 3 hrs
EVT 3312 Course Const Health Occ Ed or 3 hrs
EVT 3371 Course Const Industrial Ed 3 hrs
EVT 3502 Special Needs Voc Ed Students 3 hrs
EVT 4065 Principle Prac Voc Ed 3 hrs
EVT 4368 Adv Teaching/Techniques in Voc Ed 3 hrs
EVT 3367 Eval Vocational Training 3 hrs
EVT 4169 Curr Dev of Ind Training 3 hrs
ADE 4382 Teaching Adult Learners 3 hrs

4. Occupational Specialization Requirements (30 hrs)

Students must complete an area of specialization through one of the following routes:
- Occupation-specific courses
- Recognized occupational license/registration/certification
- Occupational examination
- Sufficient documentation demonstrating comparable occupational expertise equivalent to 30 semester hours of credit.

Appropriate documentation must be provided to advisor before this will be submitted for credit.

5. Upper Division Electives (6 hrs)
(with advisor’s approval)

6. Directed Field Experience (12 hrs)

The Occupational Specialization must be satisfied and all courses must be completed prior to registering, through your advisor, for the Directed Field Experience.

7. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

6. Departmental Exit Requirements*

- Achieve a minimum 2.5 GPA in all courses within the major.

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

8. Total Program Semester Hours Required : 120 hours

9. Recommended Sequence of Program Courses:

**Freshman Year**

- Fall (15 hrs)
  - ENC 1101 3 hrs
  - MGF 1106 3 hrs
  - SPC 1016 3 hrs
  - Cultural-Historical Foundations Course 3 hrs
  - Social Foundations Course 3 hrs

- Spring (15 hrs)
  - ENC 1102 3 hrs
  - STA 1060C or STA 2014C 3 hrs
  - Cultural-Historical Foundations Course 3 hrs
  - Cultural-Historical Foundations Course 3 hrs
  - Social Foundations Course 3 hrs

**Sophomore Year**

- Fall (12 or 16 hrs)
  - EDF 2005 3 hrs
  - EME 2040 3 hrs
  - Science Foundations Course 3 hrs
  - Technical Specialization Course 3 hrs
  - Foreign Language Course (if needed) 4 hrs

- Spring (12 or 16 hrs)
  - EDG 2701 3 hrs
  - Science Foundations Course 3 hrs
  - Technical Specialization Course 3 hrs
  - Technical Specialization Course 3 hrs
  - Foreign Language Course (if needed) 4 hrs

- Summer (6 hrs)
  - EVT 3502 3 hrs
  - EVT 3312 or EVT 3371 3 hrs

**Junior Year**

- Fall (15 hrs)
  - EVT 3365 3 hrs
  - Technical Specialization Course 3 hrs
  - Technical Specialization Course 3 hrs
  - Technical Specialization Course 3 hrs

- Spring (15 hrs)
  - EVT 3062 3 hrs
  - EVT 3367 3 hrs
  - Technical Specialization Course 3 hrs
  - Technical Specialization Course 3 hrs
  - Technical Specialization Course 3 hrs

- Summer (6 hrs)
  - EVT 4065 3 hrs
  - EVT 4109 3 hrs

**Senior Year**

- Fall (12 hrs)
  - ADE 4382 3 hrs
  - EVT 4368 3 hrs
  - Upper Division Elective 3 hrs
  - Upper Division Elective 3 hrs
  - EVT 4941 12 hrs

- Spring (12 hrs)
  - EVT 4109 3 hrs

*It is highly recommended that students seeking State certification pass the GKT. See advisor for further details.

**THEATRE (B.F.A.)**

College of Arts and Humanities
Department of Theatre, UTC 180; 407-823-2862
http://www.theatre.ucf.edu
Acting: Be Boyd, bbboyd@mail.ucf.edu
407-823-0872
Design & Technology and Stage Management: Bert Scott, hscott@mail.ucf.edu
407-823-3636

The Bachelor of Fine Arts Degree is offered for students who, upon graduation, plan to pursue a specialized career in professional theatre. It provides the student with a very structured and intensive career preparation in either Acting, Stage Management, or Design and Technology. This BFA is also an excellent degree for students who are interested in pursuing graduate studies in theatre. Work within the BFA program requires energy and dedication; therefore, other part-time study or outside employment is generally impossible. BFA standards are high, both for admission and for continuation in the program. Casting, crew, and design assignments are regulated to serve the artistic growth of students coordinating production experience with classroom exploration.

Admission Requirements

- Entrance into most theatre classes is restricted to majors.
- Exceptions must be approved by the Department.
- The departmental faculty evaluates students desiring to become BFA majors via an interview, audition, or portfolio review. For complete information, contact the Department of Theatre or visit the audition site online at http://www.theatre.ucf.edu.
- An Acting candidate must be interviewed and perform two mono-
logues of contrasting styles limited to a combined time of 3 minutes. See www.theatre.ucf.edu for details and to schedule an appointment.

- Design and Technology and Stage Management tracks require an interview and portfolio review. The portfolio should contain no more than fifteen examples of the student’s best work representing a variety of mediums including theatre work, drawing, painting, or other related projects. Three-dimensional pieces should be submitted in photo format. See www.theatre.ucf.edu for details and to schedule an appointment.

- All students must submit a resume, black and white head shot, three letters of recommendation, and transcripts of previous college work at the time of audition or interview.*

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.

- Students must adopt the most current internship manual upon registration for their internship. Internships are subject to departmental approval and may not be fulfilled through participating on a UCF Conservatory Theatre Production.

- Students must maintain a minimum “B” (3.0) overall Theatre GPA to continue in the major.

- Theatre grades of less than “C” (2.0) will not be counted.

- Continuation in the BFA program requires a positive BFA review.

- Co-op credit cannot be used in this major.

- Students must consult with a departmental advisor before registering each semester.

- Departmental Residency Requirement consists of 60 semester hours of regularly scheduled courses taken from the UCF Theatre Department.

- Prior to graduation, all BFA acting majors (including transfers) must participate in at least 4 productions in addition to their Technical Theatre Production Lab. At least one participation credit must be an acting role, one must be a run crew, and one must be in a shop or front of house, and the final one can be chosen by the student.

- Prior to graduation, all BFA Design and Technology and Stage Management majors (including transfers) must participate in at least 5 productions in addition to their Stagecraft I and II Labs. At least two participation credits must be as a department head, stage manager, assistant stage manager, designer, or other high-level production role. The other three credits can be a combination of shop assignments, run crew, front of house, or department head. Stage Management majors can use performance assignments for participation assignments.

- All BFA acting majors are required to audition for all Fall and Spring productions and must accept the roles assigned.

- Due to the conservatory nature, the BFA demands a closely integrated four-year curriculum. Although the BFA program is not designed for transfer students, transfer students may audition and be admitted, but they should consult with the Theatre Department’s Undergraduate Coordinator to evaluate their transfer credits and to determine the length of their program of study.

We encourage any student wishing to transfer to complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System.

- Design and Technology Students are required to take ARH 2051 as part of their GEP and are strongly encouraged to take ARH 2050 as an elective as early in their academic career as possible.

- Design and Technology Students are required to take at least two design or technical direction elective courses following the completion of Scenography.

- Courses designated 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

- Courses designated 1 (General Education Program) are taken throughout all four years.

**1. UCF General Education Program** (36 hrs)

<table>
<thead>
<tr>
<th>General Education Requirements</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>Select one course from 1.B.1 list 3 hrs</td>
</tr>
<tr>
<td></td>
<td>Select THE 2020 Survey of Theatre for Majors 3 hrs</td>
</tr>
</tbody>
</table>

**2. Common Program Prerequisites** (9 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE 2020*</td>
<td>Survey of Theatre for majors</td>
<td>GEP</td>
</tr>
<tr>
<td>THE 2034</td>
<td>Script Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 2090L*</td>
<td>Theatre Participation – Management I</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPA 2290L</td>
<td>Theatre Participation - Production I</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPP 2190*</td>
<td>Theatre Participation - Performance I</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPA 2210</td>
<td>Stagecraft I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 2201</td>
<td>Technical Theatre Production</td>
<td>2 hrs</td>
</tr>
</tbody>
</table>

*See Transfer Notes for possible substitutes

**3. Core Requirements** (18 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPP 2110C</td>
<td>Acting I – Introduction</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 3XXX</td>
<td>Theatre History and Dramatic Literature I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 3XXX</td>
<td>Theatre History and Dramatic Literature II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 2304</td>
<td>Script Analysis</td>
<td>CPP</td>
</tr>
<tr>
<td>THE 2090L</td>
<td>Theatre Participation – Management I</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPA 2290L</td>
<td>Theatre Participation - Production I</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPA 2190</td>
<td>Theatre Participation - Performance I</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPA 4XXX</td>
<td>Theatre Capstone</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3110C</td>
<td>Directing I</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**4A. Specialization: select one area** (66 hrs)

**Acting Specialization**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPA 2201</td>
<td>Technical Theatre Production</td>
<td>CPP</td>
</tr>
<tr>
<td>TPA 2201</td>
<td>Technical Theatre Production LAB</td>
<td>CPP</td>
</tr>
<tr>
<td>TPP 2170C</td>
<td>Acting II – The Actor Prepares</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 2190</td>
<td>Theatre Participation - Performance I</td>
<td>1 hr</td>
</tr>
<tr>
<td>DAA 2200C</td>
<td>Ballet I</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPP 2710C</td>
<td>Voice Production I</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPP 3172C</td>
<td>Acting III – Building the Character</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 3510C</td>
<td>Movement for Actors I</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPA 3XXX</td>
<td>Movement for Actors II</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPA 3512C</td>
<td>Stage Combat</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPA 3257</td>
<td>Musical Theatre, Voice I</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPA 3258</td>
<td>Musical Theatre, Voice II</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPA 3711C</td>
<td>Voice Production II</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPA 3712C</td>
<td>Voice Production III</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPA 3730C</td>
<td>Voice Production IV</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPP 4140C</td>
<td>Acting IV – Creating the Role</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 4142C</td>
<td>Acting V – Verse</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 4265C</td>
<td>Acting VI – TV/Film</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 4531C</td>
<td>Period Movement</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TAA 2406C</td>
<td>Theatre Direction</td>
<td>5 hrs</td>
</tr>
<tr>
<td>TPA 2248C</td>
<td>Makeup Techniques</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3223</td>
<td>Theatre Careers for Performance</td>
<td>2 hrs</td>
</tr>
<tr>
<td>DAA 2570C</td>
<td>Jazz Dance I</td>
<td>2 hrs</td>
</tr>
</tbody>
</table>

Restricted electives (see list of courses) 15 hrs

**Stage Management Specialization**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPA 2210</td>
<td>Stagecraft I</td>
<td>CPP</td>
</tr>
<tr>
<td>TPA 2210L</td>
<td>Stagecraft II LAB</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPA 2211</td>
<td>Stagecraft II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 2211L</td>
<td>Stagecraft II LAB</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPA 4393</td>
<td>Theatre Participation – Production I</td>
<td>1 hr</td>
</tr>
<tr>
<td>THE 4093L</td>
<td>Theatre Participation – Management I</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPA 4400</td>
<td>Theatre Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 2170C</td>
<td>Acting II – The Actor Prepares</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 2000C</td>
<td>Theatre Design Basics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 20XXX</td>
<td>Scenography</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 22XX</td>
<td>Stage Electronics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 2XXX</td>
<td>Stage Management Basics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3601</td>
<td>Stage Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 4602</td>
<td>Advanced Stage Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3221</td>
<td>Lighting Design for Theatre I</td>
<td>or</td>
</tr>
<tr>
<td>TPA 3260</td>
<td>Sound Design for Theatre I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3197</td>
<td>Summer Theatre Tech</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3195</td>
<td>Theatre Studio Tech</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3043C</td>
<td>Costumes, Architecture and Décor History I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPA 3044C</td>
<td>Costumes, Architecture and Décor History II</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
4B. Restricted Electives (except where required by a specialization - see specializations for credit hours)  

Chosen from the following:

- **THE 2090L**: Theatre Participation – Management I 1 hr
- **THE 3230**: Commonly within Cultural Diversity 3 hrs
- **THE 4093L**: Theatre Participation – Management II 1 hr
- **THE 3240**: Musical Theatre Survey 3 hrs
- **THE 5307**: Contemporary Theatre 3 hrs
- **TPA 2900**: Theatre Participation - Production I 1 hr
- **TPA 3077**: Scene Painting 2 hrs
- **TPA 3080C**: Scene Design for Theatre I 3 hrs
- **TPA 3040**: Costume Design for Theatre I 3 hrs
- **TPA 3221**: Lighting Design for Theatre I 3 hrs
- **TPA 3260**: Sound Design for Theatre I 3 hrs
- **TPA 4040C**: Costume Design for Theatre I 3 hrs
- **TPA 4040X**: Lighting Design for Theatre II 3 hrs
- **TPA 4044X**: Sound Design for Theatre II 3 hrs
- **TPA 3060**: Advanced Topics in Technical Theatre 3 hrs
- **TPA 3217**: Theatre Studio/Design 3 hrs
- **TPA 3220**: Stage Management Basics 3 hrs
- **TPA 3601**: Stage Management 3 hrs
- **TPA 3400**: Theatre Management 3 hrs
- **TPA 3493**: Theatre Participation – Production I 1 hr
- **TPP 2110**: Theatre Participation – Performance I 1 hr
- **TPP 3137**: Summer Theatre Perform. 3 hrs
- **TPP 3260**: Studio Performance 3 hrs
- **TPP 3043C**: Costumes, Architecture and Décor History I 3 hrs
- **TPP 3044C**: Costumes, Architecture and Décor History II 3 hrs
- **TPP 3077**: Scene Painting 2 hrs
- **TPP 4143C**: Acting Styles 3 hrs
- **TPP 4150L**: History of Western Art I 3 hrs
- **TPP 2248C**: Makeup Technique 3 hrs
- **TPP 2311**: Introduction to Theatrical Design 3 hrs
- **TPP 2311F**: Advanced Directing 3 hrs
- **TPP 4121L**: Theatre Participation – Production II 1 hr
- **THE 4912**: Undergraduate Research 3-6 hrs
- **DAA 4912**: Undergraduate Research 3-6 hrs
- **Other THE, TPA, TPP, DAA or DAN courses as approved by the department**: requires instructor and departmental approval in advance

5. Departmental Exit Requirements  
- Earn a grade of “C” (2.0) or better in each Theatre course
- Maintain a B’ Theatre GPA (3.0) or better
- Take a Departmental Exit Examination and write a critique of a UCF affiliated theatre production
- Complete 93 theatre credits in addition to the GEP for a total of 129. Courses that count in the GEP cannot also count towards your total theatre credits.
  - Minimum of 60 theatre credits must be completed in residency at UCF
  - Computer Competency met by STA 1060C or computer science course

6. Foreign Language Requirements  
(0-8 hrs)
- Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
- Graduation: none

7. Electives  
(variable)

8. University Minimum Exit Requirements  
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required  
129 hrs

Related Programs: Art, Film, Music, Theatre Studies BA

Related Minors: Art, Music, Film, Theatre, Dance

Transfer Notes:
- Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits. University minimum Upper Division credit requirement must still be met.
- Transfer students will be required to meet the departmental theatre participation requirement through participation on UCF productions.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- THE 2090: may use any introductory course. However, THE 2020 is a prerequisite for all theatre courses and must be taken.
- THE 2304: may use THE 2300
- THE 2090L: may use THE 2925
- TPA 2290L: may use TPA 1290
- TPP 2190: may use TPP 1190 or TPP 2110
- TPP 2210: may use TPA 2200 or TPP 2201
- TPP 2201: may use TPA 2200 or TPP 2210

The Bachelor of Arts Degree is designed to offer a thorough foundation in theatre while providing greater flexibility and opportunity for interdisciplinary study. The BA course of study emphasizes a broad-based theatre education and provides freedom to pursue a complementary minor. Upon graduation, UCF students can choose to pursue further education or enter the job market with a skill set unique to their goals.

Admission Requirements:
- The departmental faculty evaluates, via an interview, students who desire to become BA majors. For complete information, contact the Department of Theatre or visit the audition site online at www.theatre.ucf.edu.
- All students must submit a three letters of recommendation, a resume, and transcripts of previous college work at the time of interview.

Degree Requirements
UCF Degree Programs

- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to complete a minor to matriculate.
- Students who complete a double major fulfill the minor requirement automatically.
- Students must maintain a minimum “C” (2.0) overall Theatre GPA to continue in the major.
- Co-op credit cannot be used in this major.
- Students must consult with a department advisor each semester before registering.
- Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled courses taken from the UCF Theatre Department.
- All BA Theatre Studies theatre students must participate, in some capacity, in one of the main-stage productions during a minimum of four three semesters in addition to the Technical Theatre Production Lab. One of the Participation credits must be as part of a run crew. The other two participation credits can be a combination of performance, shop assignments, run crews or front of house. Students failing to successfully participate will be placed on probation for one semester. Continued failure may result in being dropped from the major.
- Courses designated in 1 (General Education Program) are usually completed in the first 90 hours.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

A. Communication Foundations (9 hrs)
   - TEP 2010 Survey of Theatre for majors

B. Cultural and Historical Foundations (9 hrs)
   - TEP 2004 Script Analysis
   - THE 2090L Theatre Participation – Management I

C. Mathematical Foundations (6 hrs)
   - Select one course from 1.B.1 list

D. Science Foundations (6 hrs)
   - Select one course from 1.B.1 or 1.B.2 list

2. Common Program Prerequisites (9 hrs)

   - THE 2304 Script Analysis
   - THE 2090L Theatre Participation – Management I
   - TPA 2290L Theatre Participation – Production I
   - TPP 2180 Theatre Participation – Performance I
   - TPP 2201 Technical Theatre Production Lab

   *See Transfer Notes for possible substitutes

3. Core requirements (21 hrs)

   - TPP 2101 Fundamentals of Acting I
   - THE 2304 Script Analysis
   - THE 3XXX Theatre History/ Dram. Lit. I
   - THE 3XXX Theatre History/ Dram. Lit. II
   - THE 3XXX Theatre History/ Dram. Lit. III
   - TPR 2XXX Stage Voice/Speech
   - TPP 3XXX Directing I
   - THE 4XXX Capstone

4. Restricted Electives (16 hrs)

   Select 16 hours from the following

   - THE 3230 Commonly within Cultural Diversity
   - THE 3082 Theatre Careers
   - TPR 4143 Acting Styles
   - TPR 3XXX Acting on Camera
   - TPA 3XXX Intro to Theatrical Design
   - TPR 4221 Auditioning
   - THE 3240 Musical Theatre Survey
   - THE 4093L Theatre Participation-Management II
   - TPP 4293L Theatre Participation-Production II
   - TEP 4193 Theatre Participation-Performance II
   - THE 5307 Contemporary Theatre
   - TPP 2294C Make-up Technique
   - TPA 3043A Costumes, Architecture, and Décor, History I
   - TPA 3043B Costumes, Architecture, and Décor History II
   - TPA 3195 Theatre StudioTech/Design
   - TPA 3197 Summer Theatre StudioTech/Design
   - TPA 2XXX Stage Management Basics
   - THE 4400 Theatre Management

5. Departmental Exit Requirements

   - Earn a grade of “C” (2.0) or better in each Theatre course.
   - Take a Departmental Exit Examination and write a critique of a UCF affiliated theatre production.
   - Computer Competency met by STA 1060C or Computer Science Course.
   - Minimum of 30 theatre credits must be completed in residency at UCF.

6. Foreign Language Requirements (0-8 hrs)

   Admission: Met by graduation requirement.
   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Required Minor (18 hours minimum)

   Theatre Studies BA students must complete a minor of at least 18 hours. See discipline for Minor requirements, information, and changes. University upper division credit hour requirements must be met. Students are discouraged from taking excess hours and should consider total credit hours required when selecting a minor.

   Students are free to pursue any minor open to them, but are encouraged to participate in the department's Associated Minor program which provides additional career/advising support targeted at specific career paths. Please see the departmental handbook for a more complete description of the program and a list of Associated Minors. Participation in an Associated Minor must be approved after interview with the Area Coordinator of BA Theatre Studies.

8. Electives (variable)

   Select electives primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

   Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required: 120 hours

Related Programs: Art, Film, Music, Theatre BFA
Related Minors: Art, Music, Film, Theatre, Dance

Transfer Notes:
Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits. University minimum Upper Division credit requirement must still be met.
Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- THE 2020: may use any introductory course. However, THE 2020 is a prerequisite for all Theatre courses and may still need to be taken.
- THE 2304XXX (Script Analysis): may use THE 2300 or THE 3305
- THE 2090L: may use THE 2925
- TPA 2290L: may use TPA 1290
- TPP 2190: may use TTP 1110 or THE 4093L or TPA 4293
The departmental faculty evaluates students desiring to become entrance into most theatre classes is restricted to majors.
Experience with classroom exploration is necessary for students to receive advanced studies in acting, musical theatre voice, and dance.
Because of its geographic location, UCF is a top choice for students interested in musical theatre, Walt Disney World, Universal Studios, and the budding expansion of the arts in Central Florida make it necessary for students to receive advanced studies in acting, musical theatre voice, and dance.
Work within the BFA program requires energy and dedication; therefore, other part-time study or outside employment is generally impossible. BFA standards are high, both for admission and for continuation in the program. Casting, crew, and design assignments are regulated to serve the artistic growth of students coordinating production experience with classroom exploration.
Admission Requirements
- Entrance into most theatre classes is restricted to majors.
  Exceptions must be approved by the Department.
- The departmental faculty evaluates students desiring to become majors via an interview and audition. For complete information, contact the Department of Theatre or visit the audition site online at www.theatre.ucf.edu.
- A candidate must present an audition consisting of one monologue and two musical selections. The entire audition should last no more than three minutes. An accompanist will be provided. Recorded accompaniment is not accepted. Candidates must also participate in a dance audition. Visit www.theatre.ucf.edu for details.
- All students must submit a resume, black and white head shot, three letters of recommendation, and transcripts of previous college work at the time of interview.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
  Students must adopt the most current internship manual upon registration for their internship. Internships are subject to departmental approval and may not be fulfilled through participating on a UCF Conservatory Theatre Production.
- Students must maintain a minimum “B” (3.0) overall Theatre GPA to continue in the major.
- Theatre grades of less than “C” (2.0) will not be counted.
- Continuation in the BFA program requires a positive annual BFA Review.
- Co-op cannot be used in this major.
- Students must consult with a departmental advisor every semester before registration.
- Departmental Residency Requirement consists of 60 semester hours of regularly scheduled courses taken from the UCF Theatre Department.
- Prior to graduation, all BFA Musical Theatre majors (including transfers) must participate in at least 4 productions in addition to their Technical Theatre Production Lab. At least one participation credit must be an acting role, one must be a run crew, and one must be in a shop or front of house position.
- All BFA Musical Theatre majors are required to audition for all Fall and Spring productions and must accept the roles assigned.
- Due to its conservatory nature, the BFA demands a closely integrated four-year curriculum. Although the program is not designed for transfer students, transfer students may audition and may be admitted, but they should consult with the Department Undergraduate Coordinator to evaluate their transfer credits and to determine the length of their program of study.
- We encourage any student wishing to transfer to complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System.
- Courses designated 2 (Common Program Prerequisites) are usually completed in the first 60 hours.
- Courses designated 1 (General Education Program) are taken throughout all four years.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      9 hrs
   B. Cultural and Historical Foundations
      Select one course from 1.B.1 list
      3 hrs
      Select THE 2020
      3 hrs
      Select one course from 1.B.1 or 1.B.2 list
      3 hrs
   C. Mathematical Foundations
      Prefer MGF 1106
      (may substitute a higher level math)
      Prefer STA 1060C
      3 hrs
   D. Social Foundations
      6 hrs
   E. Science Foundations
      6 hrs

2. Common Program Prerequisites (9 hrs)
   THE 2020* Survey of Theatre for majors
   THE 2304* Script Analysis
   THE 2090L* Theatre Participation – Management I
   TPA 2290L* Theatre Participation – Production I
   TPA 22190* Theatre Participation – Performance I
   TPA 2201* Technical Theatre Production
   TPA 2201 Technical Theatre Production Lab
   1 hr
   *See Transfer Notes for possible substitutes

3. Specialization: Lower Division (22 hrs)
   THE 2304* Script Analysis
   CFP 1100C Fundamentals of Music I
   MUT 1111 Music Theory I
   TPP 2110C Acting I - Introduction
   TPP 2170C Acting II - The Actor Prepares
   DAA 2200C Ballet I
   DAA 2201C Ballet II
   DAA 2570C Jazz Dance I
   DAA 2571C Jazz Dance II
   DAA 2520C Tap Dance I
   TPA 2248C Make-up Techniques
   2 hrs

4. Specialization: Upper Division (56 hrs)
   TPA 3172C Acting III - Building the Character
   TPA 4140C Acting IV – Creating the Role
   TPA 3250 Musical Theatre Acting Perf I
   TPA 3252 Musical Theatre Acting Perf II
   THE 4244 Musical Theatre History I
   THE 4245 Musical Theatre History II
   TPA 3223 Theatre Careers for Performance
   TPP 3XXX Theatre History and Dram. Lit.
   THE 3XXX Theatre History and Dram. Lit II
   TPA 3310C Directing I
   TPA 4193 Theatre Participation – Performance II
   TPA 3257 Musical Theatre Voice I
   TPA 3258 Musical Theatre Voice II
   TPA 4259 Musical Theatre Voice III
   TPA 4923 Musical Theatre Voice IV
   TPP 4xxxC Musical Theatre Voice V
   TPP 4xxxC Musical Theatre Voice VI
   TPP 4XXX Musical Theatre Voice VII
   TPP 4XXX Theatre Capstone
   TPA 4940L Theatre Internship
   6 hrs

4A. Movement Electives (2 hrs)
   TPA 4531L Period Movement
   TPA 3512C Stage Combat
   Any DAA or DAN courses not already required and with departmental approval

4B. Restricted Electives (4 hrs)
   Chosen from the following
   TPA 3730C Voice Production IV – Study of Stage Dialects
   TPA 4142C Acting V - Verse
   TPA 4265C Acting VI – Acting for TV/Film
   THE 3320 Commonality within Cultural Diversity
   TPA 3730* Contemporary Theatre
   3 hrs
5. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each Theatre course
- Maintain a 'B' Theatre GPA (3.0) or better
- Take a Departmental Exit Examination and write a critique of a UCF affiliated theatre production
- Minimum of 60 theatre credits must be completed in residency at UCF
- Complete 93 theatre credits in addition to the GEP for a total of 129. Courses that count in the GEP cannot also count towards your total theatre credits.
- Computer Competency met by STA 1060C or computer science course

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Electives (variable)

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 129 hours

Related Programs: Film, Music, Theatre Studies BA
Related Minors: Music, Film, Theatre, Dance

Transfer Notes:
- Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits. University minimum Upper Division credit requirement must still be met.
- Transfer students will be required to meet the departmental theatre participation requirement through participation on UCF productions.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- THE 2020: may use any introductory course. However, THE 2020 is a prerequisite for all Theatre courses and will still need to be taken.
- THE 2304: may use THE 2300
- TPP 2190: may use TPP 1190
- TPA 2306L may use TPA 1290
- TPA 2201: may use TPA 2200 or TPA 2210

- 256
MINORS AND CERTIFICATES

Minors are authorized only for certification with baccalaureate degrees. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second baccalaureate degree is earned, certification will not be made at a later time even if additional courses have been completed.

A student may declare a minor up to but no later than the submission of the "Intent to Graduate Form." Students are strongly urged to declare a minor as early as possible. Contact the student support office of the college offering the minor.

Minors

Accounting
Aerospace Studies
African - American Studies
Aging Studies
American Humanics
American Sign Language
American Studies
Anthropology
Anthropology in Multicultural Studies
Art History
Art - Studio
Asian Studies
Astronomy
Business
Chemistry
Coaching
Cognitive Sciences
Communication Sciences & Disorders
Community Arts - PAVE
Computer Science
Criminal Justice
Dance
Deaf Studies
Digital Media
Early Childhood Education
e-Business
Economics
Emergency Management & Homeland Security
English - Creative Writing
English - Linguistics
English - Literature
English - Technical Writing and Editing
English - Writing
Environmental Studies
European Studies
Exceptional Education
Film - Cinema Studies
Fitness Training
Finance
French
German
Health Information Management
Health Sciences
Health Services Administration
History
Hospitality Management
Humanities
Information Technology
International and Global Studies
International Business
Interpersonal Communication
Intelligent Robot Systems - Interdisciplinary
Italian
Judaic Studies
Latin American Area Studies
Legal Studies
Magazine Journalism
Management Information Systems
Mass Communication
Mathematics
Middle Eastern Studies
Military Science
Molecular Biology and Microbiology
Music
North American Indian Studies
Organizational Communication
Philosophy
Philosophy, Religion and Popular Culture
Physics
Political Science
Political Science/Prelaw
Psychology
Public Administration
Real Estate
Religious Studies
Secure Computing and Networks
Social Sciences - Interdisciplinary
Sociology
Space Studies
Spanish
Sport Business Management
Statistics
Technical Education and Industry Training
Technology and Society
Theatre - General
Urban and Regional Planning
Women's Studies
World Comparative Studies

Certificates

Addictions Certificate
Aging Studies Certificate
American Sign Language Certificate
Behavioral Forensics Certificate
Children's Services Certificate
Crime Analysis and Crime Mapping Certificate
Crime Scene Investigation Certificate
Criminal Profiling Certificate
Cultural Tourism Certificate
Digital Media Certificate
Entertainment Marketing Certificate
Finance: Banking Certificate
Finance: Corporate Finance Certificate
Finance: Investments Certificate
Jazz Studies Certificate
Judaic Studies Certificate
Language Development and Disorders Certificate
Marketing: Selling and Sales Management Certificate
Marketing: Retailing Management Certificate
Marketing: e-Marketing Certificate
Marketing: Sport Marketing Management Certificate
Marketing: Healthcare Marketing Certificate
Marketing: Services Marketing Certificate
Marketing: Entertainment Marketing Certificate
Nonprofit Management Certificate
Real Estate: Real Estate Brokerage Certificate
Real Estate: Real Estate Appraisal Certificate
Real Estate: Mortgage Brokerage Certificate
Security Management Certificate
Service-Learning Certificate
Translation and Interpretation Certificate
Women's Studies Certificate

Additional UCF Programs

Foreign Study Abroad Program:
  - Dominica
  - France
  - Germany
  - Italy
  - Japan
  - South Africa
  - Spain

English Study Abroad Program:
  - Mexico
  - Scotland
MINORS

ACCOUNTING:
Minor for Business and Non-Business Majors
College of Business Administration
School of Accounting, BA 437
(407) 823-2871
Credit Hour Requirements 21 hours
Required Courses
AGC 2021 Principles of Financial Accounting (9 hrs)
AGC 2071 Principles of Managerial Accounting (3 hrs)
Select one of the following (may not be counted as an elective if selected as a required course):
AGC 3131 Financial Accounting Concepts and Analysis (3 hrs)
AGC 3361 Intermediate Managerial Accounting
Restricted Electives (12 hrs)
Select four from the following (at least two courses must have either an AGC or TAX prefix)
AGC 3131 Financial Accounting Concepts and Analysis (3 hrs)
AGC 3361 Intermediate Managerial Accounting (3 hrs)
AGC 3141 Intermediate Financial Accounting (3 hrs)
AGC 3501 Accounting and Auditing in the Public Sector (3 hrs)
AGC 4401C Accounting Information Systems (3 hrs)
AGC 4651 Auditing (3 hrs)
AGC 4671 Internal Auditing (3 hrs)
AGC 4932 Approved Special Topics Courses in Accounting (3 hrs)
TAX 4001 Taxation of Business Entities and Transactions (3 hrs)
FIN 3414 Intermediate Corporate Finance (3 hrs)
FIN 4463 Financial Models (3 hrs)
ISM 3265 MIS Techniques (3 hrs)
ISM 4242 Database Management Systems (3 hrs)

Other Requirements
A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
At least 9 hours used in the minor must be earned at UCF.
No credit by exam (TSD, Military credit) may be used.

AEROSPACE STUDIES: Minor
College of Engineering and Computer Science
Air Force ROTC, TR 501 103
Col. William G. Palmbry, 407-823-1247
Credit Hour Requirements 16 hrs
Required Courses
AFR 1101 The Air Force Today I (16 hr)
AFR 1111 The Air Force Today II (1 hr)
AFR 2103 The Development of Air Power I (1 hr)
AFR 2104 The Development of Air Power II (1 hr)
AFR 3220C Air Force Leadership and Management I (3 hrs)
AFR 3230C Air Force Leadership and Management II (3 hrs)
AFR 4201C Nat Scrtys Affairs & Prep for Active Duty I (3 hrs)
AFR 4210C Nat Scrtys Affairs & Prep for Active Duty II (3 hrs)
Other Requirements
A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
Grades less than "C" (1.75) are not accepted.
At least 12 hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.
Internship or Independent Study credit cannot be used toward the minor.

AFRICAN-AMERICAN STUDIES: Minor
College of Arts and Humanities
African American Studies Program, CNH 201G
http://www.cas.ucf.edu/africanamericanstudies
J. Stephenson, 407-823-0026
The African American Studies minor is designed to complement a student's major area of study. The minor requires a core of African American Studies courses as well as a selection of directed electives in Fine Arts, History, English, Modern Languages, Music, Literatures, Political Science, Psychology, Sociology, Anthropology, Film, and Theatre.
Credit hour Requirements 18 hours
Required Courses
AFR 3104 The African American Experience (6 hrs)
AMH 3571 Black American History I (3 hrs)
Restricted Electives (12 hrs)

AFA 3102 Introductory Perspectives on African American Studies
AFA 2300 African American Music
AFA 3955 Study Abroad in the Caribbean
AMH 3572 Black American History II
AML 3614 Topics in African-American Literature
AML 3615 Harlem, Haïti, & Havana
ARH 3620 African Art
INR 3253 International Politics of Africa
FIL 3412 Black Cinema
LAD 4370 History of the Caribbean
LAS 4023 Alt Caribbean Experience
LIT 3192 Caribbean Literature
MUL 2015 Evolution of Jazz
POS 4622 Politics & Civil Rights
PUP 3314 Minorities in American Politics
SOP 3724 The Psychology of Racial Prejudice
SYD 3700 Race and Ethnic Minorities in the U.S.

Other Requirements
A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
Grades below "C" (2.0) in lower level courses are not accepted.
At least 12 hours used in the minor must be earned at UCF.
No credit by exam (TSD, Military credit) may be used.
Internship, Co-op, or Independent Study credit cannot be used toward the minor without the approval of the program coordinator.

AGING STUDIES: Minor
College of Health and Public Affairs
School of Social Work, HPA 204
BSW Coordinator, HPA 204, 407-823-2114
In recognition of the special needs of the elderly citizens of Central Florida, the University offers an eighteen-hour interdisciplinary program leading to a Minor in Aging Studies. The Minor is open to all students in any major. The program may be a particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education, or art education. Also all students must contact the coordinator for planning their internship.
Credit Hour Requirements 18 hours
Required Courses
GEY 3001 Gerontology: Interdisciplinary Overview (3 hrs)
Required Internship: 120 hours
Select one:
SOW 4510 Field Education (9 hrs)
PSY 3951 Internship (3 hrs)
SYP 4941 Internship (3 hrs)
E electives (12 hrs)
Students select four additional courses from the following: A maximum of two courses in their College and at least two courses must be outside their college.
College of Health and Public Affairs
HSA 4941 Internship (3 hrs)
HSA 4941 Internship (3 hrs)
HSC 4564 Health Care Needs of the Elderly (3 hrs)
NUR 4286 Gerontologic Nursing (3 hrs)
PLA 4530 Legal Issues of the Elderly (3 hrs)
SOW 4645 Social Services for the Elderly (3 hrs)
College of Arts and Sciences
DEP 3464 Psychology of Aging (3 hrs)
SYP 4730 Sociology of Aging (3 hrs)
SYD 3930 Women and Aging (3 hrs)
SYP 3930 Women and Aging (3 hrs)
SYP 3930 Literature of Aging (3 hrs)
SYP 4734 Minority Aging (3 hrs)

Other Requirements
A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
Grades less than "C" (1.75) are not accepted.
At least 12 hours used in the minor must be earned at UCF within the program.
No credit by exam (TSD, Military credit) may be used.
Minors

- Independent Study credit may not be used toward the minor

AMERICAN HUMANICS: Minor
American Humanities Minor with National Certificate
College of Health and Public Affairs
Joan Nelson, MBA, MSW - Campus Director
Phone 497-823-0713; e-mail ahminor@mail.ucf.edu

The American Humanities Minor at the University of Central Florida will provide interdisciplinary classroom experience and experiential learning opportunities for students and community residents planning a career as a nonprofit professional working with America’s youth and families. This minor will result in a National Certification in American Humanities Academic Program. Requirements for the minor are the same as for national certification.

Credit Hour Requirements (18 hours)
Required Courses (6 hrs)
- PAD 3930 American Humanities Human Service Workshop 3 hrs
- PAD 4144 Nonprofit Organizations
- PAD 4148 Volunteer Management
- *SOW 3203 Social Welfare and Community Resources
- *SOW 3104 Assessing I - Human Development
- DEP 3904 Developmental Psychology
- PPE 3003 Personality Theory
- DEP 3464 Psychology of Aging

Group II: Planning & Evaluation and Human Resource Development (3 hrs)
- PAD 4144 Nonprofit Organizations
- PAD 4153 Strategic Planning & Implementation
- PAD 4325 Program Evaluation for the Public and Nonprofit Organizations
- PAD 4414 Human Resource Management
- *SOW 3401 Social Work Research Methods
- MAN 3025 Management of Organizations
- MAN 3301 Human Resource Management
- MAN 4101 Human Relations in Management
- MAN 4320 Human Resources, Recruitment & Selection

Group III: Communication & Marketing (3 hrs)
- PAD 4144 Nonprofit Organizations
- *SOW 3352 Practice II: Interpersonal Skills
- COM 3110 Business & Professional Communications
- GEB 3031 The Cornerstone Course
- MAR 3023 Marketing
- MAR 3641 Marketing Intelligence
- MAR 4803 Marketing Management

- PAD 4144 Nonprofit Organizations
- ACG 2021 Financial Accounting
- ACG 2071 Managerial Accounting
- PAD 5850 Grant and Contract Management
- PAD 4204 Fiscal Management
- PAD 4131 Public Sector Project Management
- PAD 4147 Resource Development in the Nonprofit Sector
- Or

Public Affairs Emphasis

Restricted Electives Choose at least two from the following (6 credit hours)
- PAD 4131 Public Sector Project Management
- PAD 4144 Non-Profit Organizations
- PAD 4147 Resource Development in the Nonprofit Sector
- PAD 4204 Fiscal Management
- PAD 4325 Program Evaluation for the Public and Non-Profit Organizations

Restricted Electives Choose at least two from the following (6 credit hours)
- PAD 4148 Volunteer Management
- PAD 4153 Planning and Improvement for Public Organizations
- PAD 4223 Public Budgeting

* open only to SOW majors

Other Requirements
- Enrollment in American Humanities Certificate Program through AH program office.
- Attendance at one national American Humanities Management Institute (additional fees)
- Membership in UCF American Humanities Student Association

AMERICAN SIGN LANGUAGE: Minor
College of Health and Public Affairs
Department of Communication Sciences and Disorders
http://www.cohpa.ucf.edu/comdis
HPA II, Room 101

The American Sign Language Minor addresses a growing interest in American Sign Language (ASL) as a minority and indigenous language in the United States. Through the minor students not only acquire a second language that they may use to communicate with the deaf community, but they also learn a non-Indo-European linguistic structure. The minor is available to students in all disciplines who would find it a useful addition to their major, in particular those majoring in interpersonal and organizational communication, general and special education, communicative disorders, criminal justice, the health professions, and social work. Additionally, a minor in American Sign Language will serve as a valuable confirmation for employers and graduate schools of a student’s specialized knowledge of this language.

Credit Hour Requirements (22 hours)
Required Courses (18 hrs)
- SPA 4612 Introduction to American Sign Language 4 hrs
- SPA 4613 Intermediate American Sign Language 4 hrs
- SPA 4614C American Sign Language III 4 hrs
- SPA 4615 American Sign Language IV 4 hrs
- SPA 4617 Signed Language Linguistics 3 hrs

Choose One of the Following:
- SPA 2631 Issues in Deafness 3 hrs
- SPA 3632 Communication Disorders in the Deaf 3 hrs
- SPA*** Educational Implications of Deafness 3 hrs

Other Requirements
- A minimum of “C-” (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the minor.
- At least 12 hours used in the minor must be earned at UCF with the Department of Communication Sciences and Disorders.
- No credit by exam (TSD, Military credit) Internship or Independent Study credit may be used toward the minor.

AMERICAN STUDIES: Minor
College of Arts and Humanities
http://www.cas.ucf.edu/liberal_studies
E-mail: stebbins@mail.ucf.edu
407-823-3253

Credit Hour Requirements (21 hours)
Required Courses (9 hrs)
- Select one course in each of the three categories below

Literature and Humanities
- AML 3031 American Literature I
- AML 4101 American Novel
- AML 4261 Literature of the South
- AML 3682 Ethnic Literature in America

Social Sciences
- POS 3413 The American Presidency
- POT 3204 American Political Thought
- SYD 3700 Race and Ethnic Minorities in the U.S.
- SYP 3630 Sociology of Popular Culture

History
- AMH 3423 Florida History 1845-present
- AMH 3561 Women in American History I
- AMH 4110 Colonial America, 1607-1763
- AMH 4130 The Age of the American Revolution
- AMH 4311 American Culture I
ANTHROPOLOGY: Minor
College of Sciences
Department of Sociology & Anthropology, PH 403
http://cas.ucf.edu/soc_anthro
anthropology@ucf.edu
Contact: A. Chase, 407-823-2227
The Anthropology minor develops a holistic understanding of the
past and present human condition. Four different concentrations are
delimited within the Anthropology minor.

Credit Hour Requirements: 18 hours

A. Concentration in General Anthropology
The following 2000 level courses must be taken:
ANT 2000 General Anthropology
ANT 2100 Archaeology & Rise of Human Culture
ANT 2410 Cultural Anthropology
ANT 2511 The Human Species
Select two upper level (3000-5000) courses in Anthropology

B. Concentration in Archaeology
The following 2000 level courses must be taken:
ANT 2000 General Anthropology
ANT 2100 Archaeology & Rise of Human Culture
Select from the following:
ANT 4101 Archaeological Sciences
ANT 3159 Florida Archaeology
ANT 3115 Archaeological Method and Theory
ANT 3142 Old World Prehistory
ANT 3145 Archaeology of Complex Societies
ANT 3163 Mesoamerican Archaeology
ANT 3164 Ancient Incas
ANT 3168 Maya Archaeology
ANT 4184 Mortuary Archaeology
ANT 3358 Life and Death in Ancient Egypt
ANT 4144 Prehistory of North America
ANT 4153 North American Archaeology
ANT 4180C Seminar in Laboratory Analysis
(or three 1 hr labs)
ANT 4824 Advanced Archaeological Field Work
ANG 5165 Field Research In Maya Studies
ANG 5166 Problems of Maya Archaeology
ANG 5167 Maya Hieroglyphs
ANG 5228 Maya Iconography

C. Concentration in Physical Anthropology
The following 2000 level courses must be taken:
ANT 2000 General Anthropology
ANT 2511 The Human Species
Take four of the following courses:
ANT 4184 Mortuary Archaeology
ANT 4467 Nutritional Anthropology (or ANG 5467)
ANT 3541 Biobehavioral Anthropology
ANT 3550 Primatology
ANT 4521C Forensic Anthropology
ANT 4462 Medical Anthropology
ANT 4515 Human Biological Diversity
ANT 4525C Human Osteology
ANT 4529C Advanced Forensic Anthropology
ANT 4586 Human Origins

D. Concentration in Cultural Anthropology
The following 2000 level courses must be taken:
ANT 2000 General Anthropology
ANT 2410 Cultural Anthropology
Take four of the following courses:

Other Requirements:
- Earn a grade of “C” (2.0) or better in all courses used to satisfy
the minor.
- At least 15 hours used in the minor must be earned at UCF.

ANTHROPOLOGY IN MULTICULTURAL STUDIES: Minor
College of Sciences
Department of Sociology & Anthropology, PH 403
http://www.cas.ucf.edu/soc_anthro
anthropology@ucf.edu
Contact: A. Chase 407-823-2227
This minor develops a more sophisticated understanding of the
recent dilemmas of Hispanic, Native American, and Pacific Rim cul-
tures, sex, and gender controversies in America and other societies,
and the theoretical and practical issues of modern applied anthropol-
yogy. The minor is especially appropriate for students majoring in
political science, international business, or for any student seeking an
enhanced understanding of contemporary cultural relations.

Credit Hour Requirements: 18 hours

Required Course (3 hrs)
Select one of the following:
ANT 2000 General Anthropology
ANT 2410 Cultural Anthropology

Restricted Electives (15 hrs)
Select five of the following. Substitutions require prior consent of the Anthropology
Coordinator:
ANT 3164 The Incas
ANT 3212 Peoples of the World
ANT 3211 Magic, Ritual, and Belief
ANT 3245 Native American Religions
ANT 3302 Sex, Gender and Culture
ANT 3312 Ethnology of North Amer Indians
ANT 3332 People and Cultures of Latin Amer
ANT 3640 Language and Culture
ANT 4304 Caribbean Cultures
ANT 3316 Black/Seminole Relations
ANT 3319 The Anthropology of Diaspora
ANT 4438 Anthropology of Tourism
ANT 4467 Nutritional Anthropology
ANT 3701 Applied Anthropology
ANT 4702 Culture, Power, and Development
ANT 4266 Economic Anthropology
ANT 4398 Gender Issues in Latin America
ANT 4516 Human Biological Diversity
SYD 3700 Race and Ethnic Minorities in the US

Other Requirements:
- Earn a grade of “C” (2.0) or better in all courses used to satisfy
the minor.
**Minors**

- The minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Not open to Anthropology majors.

**ART HISTORY: Minor**

**College of Arts and Humanities**

Art Department, VAB 117


**art@ucf.edu**

J. Chavda, 407-823-2676

- A minimum GPA of 2.0 is required in all courses used to satisfy Other Requirements.
- Six semester hours of studio art in one area of specialization at the 3000-4000 level
- Restricted Upper Division Courses (6 hrs)
  - Required Courses (18 hrs)
  - Credit Hour Requirements 24 hours
- J. Chavda, 407-823-2676
- art@ucf.edu
- http://www.art.ucf.edu/

**ASIAN STUDIES: Minor**

**College of Arts and Humanities**

http://www.cas.ucf.edu/

E-mail: stebbins@mail.ucf.edu

- An interdisciplinary minor in which several UCF departments participate in order to offer students a basic and well-rounded background in the field. Courses are to be selected in consultation with a departmental advisor.
- Required Course (3 hrs)
- Credit Hour Requirements 21 hours
- Restricted Electives (18 hrs)
- Foreign Language Requirement (0-8 hrs)

**ASTRONOMY: Minor**

**College of Sciences**

Department of Physics, MAP 310

E-mail: physics@ucf.edu

Contact: A Physics Advisor, 407-823-2325

- Select either:
- Credit Hour Requirements 20 hrs
- Required Course (18 hrs)
- Restricted Electives (2 hrs)

**BIOLOGY: Minor**

**College of Sciences**

Biology Department, BL 301

[http://www.cas.ucf.edu/biology](http://www.cas.ucf.edu/biology)

E-mail: biology@ucf.edu

Contact: F. Logiudice, 407-823-2141

- Select either:
- Credit Hour Requirements 31 hrs
- Required Courses (31 hrs)
PCB 3023 Molecular Cell Biology 3 hrs
PCB 3044 Principles of Ecology 3 hrs
PCB 3083 Genetics 3 hrs
PCB 4680 Population Biology and Evolution 4 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
- Not open to Biology or Biology Preprofessional majors.

BUSINESS: Minor for Non-Business Majors
College of Business Administration, BA2-101
B. Moore, 407-823-5256, bmoore@bus.ucf.edu

Credit Hour Requirements 24 hrs

Required Accounting Course(s) (6 hrs)
ACG 2021 Principles of Financial Accounting and
ACG 2071 Principles of Managerial Accounting

Required Courses (15 hrs)
ECO 2013 Macroeconomics
ECO 2023 Microeconomics
FIN 3403 Business Finance
MAN 3025 Management of Organizations
MAR 3023 Marketing

Restricted Elective (3 hrs)
A 3000 level business core course
(GEB 3004 may not be used)

Other Requirements
- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor and an overall GPA in the minor of 2.0 is required.
- Grades below “C” (2.0) are not accepted.
- At least 12 hours of upper division credit used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

CHEMISTRY: Minor
College of Sciences
Department of Chemistry, CH 117
http://www.cas.ucf.edu/chemistry
E-mail: chemistry@ucf.edu
Contact: Any Chemistry advisor

Credit Hour Requirements 28 hrs

Required Courses (21 hrs)
CHM 2045C Chemistry Fundamentals I 4 hrs
CHM 2046 Chemistry Fundamentals II 3 hrs
CHM 2046L Chemistry Fundamentals Laboratory 1 hr
CHM 2210 Organic Chemistry I 3 hrs
CHM 2211 Organic Chemistry II 3 hrs
CHM 2211L Organic Laboratory Techniques I 2 hrs
CHM 31020 Analytical Chemistry 5 hrs

Restricted Upper Division Electives (7 hrs)
At least one course must be selected from group I and the remaining from group I and/or II.

Group I: Select at least one course
CHM 3212L Organic Laboratory Techniques II
CHM 4130C Advanced Analytical Laboratory Technique
CHM 4100L Biochemical Methods
CHS 3530C Forensic Analysis of Controlled Substances
CHM 3411L Physical Chemistry Laboratory
CHM 5451C Polymer Chemistry Laboratory

Group II:
CH 4053 Biochemistry I
CH 4054 Biochemistry II
CHM 3410 Physical Chemistry I
CHM 3411 Physical Chemistry II
CHM 3422 Applied Physical Chemistry
CHM 5225 Advanced Organic Chemistry I
CHM 4220 Organic Chemistry III

CHM 4200 Concepts in Industrial Chemistry
CHM 5235 Applied Molecular Spectroscopy
CHM 5450 Polymer Chemistry
CHS 4615 Environmental Chemistry

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 11 hours used in the minor must be earned at UCF within the department, with a minimum GPA of 2.0.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

COACHING: Minor
College of Education
Department of Teaching and Learning Principles, ED 209
http://pegasus.cc.ucf.edu/~ucfphyed/minors.htm
Program Coordinator: Dr. Patricia Higginbotham
ED 320-H, 407-823-2050
E-mail: higginbp@mail.ucf.edu

Credit Hour Requirements 18 hours

Required Courses (18 hrs)
*PET 2622C Human Injuries 3 hrs
PET 3765 Coaching Theory 3 hrs
PET 3493 Sports Ethics 3 hrs
PET 4215 Motivational Aspects of Athletic Performance 3 hrs
PET 4763 Coaching Methods and Principles 3 hrs

Select one course from the following:
PGE 2624 Coaching Football or
PGE 2644 Coaching Basketball or
PGE 3324 Coaching Volleyball

*If the student has completed this course at a community college it can be transferred into the program.

Other Requirements
- An overall GPA of 2.0 is required to satisfy the minor.
- No grades below “C-” (1.75) and no “S” grades will be accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No TSD or Military credit may be used.
- Internship or Independent Study credit cannot be used toward the minor.

COGNITIVE SCIENCES: Minor
College of Arts and Humanities
Philosophy Department, CHN 411
http://www.cas.ucf.edu/philosophy/
E-mail: philosophy@ucf.edu
Jennifer Mundale, 407-823-2273; Fax: 407-823-6658

The cognitive sciences minor provides an interdisciplinary approach to the study of mind, brain, and cognition, broadly construed. It complements the background of students intending to pursue graduate degrees in cognitive science, computer science, philosophy, psychology, biology, neuroscience, and medicine, as well as students with more immediate career goals in fields such as neural network modeling, neuroimaging, information technology, clinical or counseling psychology, biotechnology, and others.

Credit Hour Requirements 21 hrs

Note: It is the student’s responsibility to satisfactorily complete all prerequisite courses prior to registering for each course. Students must check the most current catalog before registering, and abide by the prerequisites in effect at that time.

Foundation Courses (15 hrs)
Select from at least 4 subject areas
Minors

Neuroscience
PSB 3002 Physiological Psychology (PR: PSY 2012)
PSB 4240C Neuropsychology (PR: PSB 3002)
ZOO 744 Neurobiology (PR: BSC 2010C)
PSB 4422 Brainwaves and Behavior (PR: PSB 3002)

Philosophy
PHI 3320 Philosophy of Mind (PR: PHI 2010 or C.I.)
PHI 3323 Minds and Machines (PR: PHI 2010 or C.I.)
PHI 4341 Ways of Knowing (PR: PHI 2010)
PHI 3451 Philosophy of Psychology (PR: Junior or C.I.)
PHI 4400 Philosophy of Science

Psychology
EXP 3804C Cognitive Psychology (PR: PSY 2012)
EXP 4507C Advanced Human Memory and Cognition
(PR: PSY 3213C and EXP 3604C)
EXP 3204C Perception (PR: PSY 2012, PSY 3213C)

Computer Science and Information Technology
CAP 4453 Robot Vision (PR: COP 3530C and MAC 2312, or C.I.)
CAP 4630 Artificial Intelligence (PR: COP 3530C)
EEL 3520 Information Theory (PR: MAC 2147 or any calculus course; not open to EE or CPE majors)
EEL 3552C Signal Analysis & Communications (PR: EEL 3004)

Language and Linguistics
LIN 3010 Principles of Linguistics (PR: ENC 1102)
LIN 3716 Language Development: Birth Through 8 Years
(PR: DEP2004)
LIN 3717 Language Development: 9-18 Years (PR: LIN 3716)
LIN 3640 Psychology of Oral Communication

Required Courses (20 hrs)

Credit Hour Requirements 20 hours
Required Courses
SPA 3471 Communication Disorders In Literature & Media 3 hrs
SPA 3112 Basic Phonetics 3 hrs
SPA 3112L Basic Phonetics Lab 1 hr
SPA 3101 Physiological Bases of Speech and Hearing 3 hrs
SPA 4032 Audiology 3 hrs
SPA 4400 Language Disorders Across the Lifespan 3 hrs
SPA 4476 Speech Disorders Across the Lifespan 3 hrs

Other Requirements
- A minimum GPA of 1.75 is required in all courses used to satisfy the minor.
- Grades below “C-” (1.75) are not accepted.
- Students must earn an overall minimum of 2.0 GPA in the courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

Licensed Speech Language and Audiology Assistant
A state license may be obtained by completing the minor plus one additional course in the disorders area as recommended by the academic advisor.

COMMUNITY ARTS—PAVE: Minor

College of Arts and Humanities
Department of Art, VAB 117
http://www.art.ucf.edu/
E-Mail: art@ucf.edu
Kevin Haran, 407-823-5203

Minor Requirements
Partners in Art in Visual Education (PAVE)
A minor in Community Arts—PAVE is offered for the student who is majoring in Art, Music, Theatre, or English (with a Creative Writing focus). Students interested in the minor should contact the department chair.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used toward the minor.

COMPUTER SCIENCE: Minor

College of Engineering and Computer Science
School of Electrical Engineering & Computer Science, Harris Corp Engineering Ctr, Rm 245
E-mail: computerscience@ucf.edu
http://www.cs.ucf.edu

Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798
E-mail: jschwart@mail.ucf.edu

Minor Requirements

Required Courses (20 hrs)

Credit Hour Requirements 20 hours
Required Courses
COP 3223 Intro to Programming with C 3 hrs
COP 3330 Intro to Object Oriented Programming 3 hrs
COP 3502C Computer Science I 3 hrs
COP 3503C Computer Science II 4 hrs
COT 3100C Introduction to Discrete Structure 3 hrs
MAD 2104 Foundations of Discrete Mathematics 2 hrs
Minors

DANCE: Minor
College of Arts and Humanities
Theatre Department, UCF 180
http://www.theatre.ucf.edu

Required Courses
- Dan 3134: Dance History I (3 hrs)
- Daa 2610: Dance Improvisation/Composition I (3 hrs)
- Daa 2100C: Modern Dance I (2 hrs)
- Daa 2200C: Ballet I (2 hrs)
- Daa 3680: Dance Performance (1 hr)

Electives
- Daa 2570C: Jazz Dance I (2 hrs)
- Daa 2571C: Jazz Dance II (2 hrs)
- Daa 3502C: Jazz Dance III (2 hrs)
- Daa 2520C: Tap Dance I (3 hrs)
- Daa 2521C: Tap Dance II (2 hrs)
- Daa 3524C: Tap Dance III (2 hrs)
- Daa 2201C: Ballet I (2 hrs)
- Daa 3202C: Ballet III (2 hrs)
- Daa 2101C: Modern Dance II (2 hrs)
- Daa 3102C: Modern Dance III (2 hrs)
- Daa 2393C: World Dance (2 hrs)
- Daa 3545: Choreography Practicum (2 hrs)
- Daa 3690: Dance Performance (1 hr)
- The 2090L: Theatre Participation (1 hr)

Other Requirements
- A grade of "C" (2.0) or better in all courses used to satisfy the minor.
- A minimum of 15 hours used in the minor must be taken at UCF.
- Participation on a minimum of one departmental dance concert.
- Internship, cooperative education, or Independent Study credit cannot be used toward the minor.

DIGITAL MEDIA: Minor
College of Arts and Humanities
Digital Media Program, 500 OTC
http://www.creat.cas.ucf.edu

Required Courses
- Dg 3001: Principles of Digital Media (3 hrs)
- Dg 3135C: Digital Imaging (3 hrs)
- Dg 4716L: Internet Interaction (1 hr)
- Csp 2505: Concepts in Computer Science (3 hrs)

Electives
- Dg 3286C: Assembling Digital Media (3 hrs)
- Fil 3625: Interactive Entertainment (3 hrs)
- Dg 4921C: Media for e-Commerce I (3 hrs)
- Dg 4641: Creative Digital Devices (3 hrs)
- Dg 4780: Modeling for Realtime Graphics (3 hrs)
- Dg 4855: Converging Media (3 hrs)
- Dg 4640: Autonomous Media (3 hrs)
- Dg 4715C: Game Engines (3 hrs)
- Dg 4713C: Game Design (3 hrs)

Other Requirements
- A grade of "C" (2.0) or better in all courses used to satisfy the minor.
- Participation on a minimum of one departmental dance concert.
- Internship, cooperative education, or Independent Study credit cannot be used toward the minor.
- A minimum of 3 different dance styles must be completed in the minor.

DEAF STUDIES: Minor
College of Health and Public Affairs
Department of Communication Sciences and Disorders
http://www.cohpa.ucf.edu/comdis

Required Courses
- Spa 2631: Issues in Deafness (3 hrs)
- Spa 4612: Introduction to American Sign Language (4 hrs)
- Spa 4613: Intermediate American Sign Language (4 hrs)
- Spa 4614C: American Sign Language III (4 hrs)

Choose One of the Following:
- Spa 461C: American Sign Language IV (4 hrs)
- Spa 3632: Communication Disorders in the Deaf (3 hrs)
- Spa 4617: Signed Language Linguistics (3 hrs)

Other Requirements
- A grade of "C" (2.0) or better in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF with prior written permission.
- Internship, cooperative education, or Independent Study credit may be used toward the minor.

Criminal Justice: Minor
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies,
HPA 1 311
Dr. Mary Ann Eastep, 407 823-3598
http://www.creat.cas.ucf.edu

Required Courses
- Ccj 3002: Criminal Justice System (3 hrs)
- Ccj 3014: Crime in America (3 hrs)

Electives
- Two of the following:
  - Cij 3510: Prosecution and Adjudication
  - Cje 3010: The Corrections and Penology
  - Cje 4014: Police and Society

Other Requirements
- A successful audition (selected with the aid of an advisor).
- Participation in Company Organization and Independent Study credit may be used in the minor only with prior written permission.
- A grade of "C" (2.0) or better in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned within the department.
- A minimum GPA of 2.0 in courses used to satisfy the minor.
- No credit by exam (TSD, Military credit) may be used.
- A minimum grade of "C" (1.75) is required in each course.

Deaf Studies Minor
College of Health and Public Affairs
Department of Communication Sciences and Disorders
http://www.cohpa.ucf.edu/comdis

Required Courses
- Spa 2631: Issues in Deafness (3 hrs)
- Spa 4612: Introduction to American Sign Language (4 hrs)
- Spa 4613: Intermediate American Sign Language (4 hrs)
- Spa 4614C: American Sign Language III (4 hrs)

Choose One of the Following:
- Spa 461C: American Sign Language IV (4 hrs)
- Spa 3632: Communication Disorders in the Deaf (3 hrs)
- Spa 4617: Signed Language Linguistics (3 hrs)

Other Requirements
- A grade of "C" (2.0) or better in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF with prior written permission.
- Internship, cooperative education, or Independent Study credit may be used toward the minor.
- No credit by exam (TSD, Military credit) may be used.
- A minimum GPA of 2.0 in courses used to satisfy the minor.
EARLY CHILDHOOD EDUCATION: Minor
College of Education
Department of Child, Family, and Community Sciences
ED 209
http://pegasus.cc.ucf.edu/~eceucf/
Program Coordinator: Lynn Hartle (Until August 2006)
ED 206, 407-823-0045
E-mail: ece@mail.ucf.edu
The Early Childhood Education minor is intended to provide a limited, but substantive experience in the fields of education and early childhood education. The minor is intended for University students enrolled outside the College of Education and does not lead to teacher certification or admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career working with young children in the fields of education, early childhood education, social work, psychology or health services. This minor will strengthen the marketability of the student’s major program. This Minor is available for students in the 2003 Catalog Year and beyond.

Credit Hour Requirements                        21 hrs
Required Courses                                (18 hrs)
RED 3310  Emergent Literacy                     3 hrs
ECC 3208  Play Development                      3 hrs
EDF 3307  Learning Environments & Guidance      3 hrs
EEX 3450  Young Children with Special Needs     3 hrs
EEX 4751  Parent Involvement                     3 hrs
TSL 4080  Theory and Practice of Teaching ESOL   3 hrs

Restricted Electives (choose one)               (3 hrs)
EDF 3740  Foundations of ECE                    3 hrs
EDF 3120  Observing Child Growth & Development  3 hrs
LAE 3414  Children’s Literature                 3 hrs
RED 3012  Foundations of Reading                3 hrs
ECC 4731  Health & Nutrition                    3 hrs
RED 4311  Development of Literacy               3 hrs
MAE 4300  Exploring Mathematics                 3 hrs
SCE 4023  Teaching Science & Technology         3 hrs

Other Requirements:
1. Completion of all parts of the CLAST with appropriate passing scores, not alternatives, or completion of an A.A. degree from a Florida public post secondary institution, including completion of CLAST with appropriate scores or alternatives.
2. A minimum GPA of 2.5 of all Gordon Rule is required.
3. At least 12 hours used in the minor must be earned at UCF.
4. No credit by exam (CLEP, Military credit) may be used. Transfer credits from other universities will be considered.

Note: Completion of the minor does not complete the requirements for certification in Early Childhood Education nor does it constitute admission to the College of Education.

ECONOMICS: Minor
(for both Business Majors and non-Business Majors)
College of Business Administration
Department of Economics, BA 318
R. Pennington, 407-823-2840, rpenning@bus.ucf.edu
Credit Hour Requirements                        18 hrs
Required Courses                                (9 hrs)
ECO 2013  Macroeconomics                        3 hrs
ECO 2023  Microeconomics                        3 hrs
Select one of the following two courses:
ECO 3101  Intermediate Price Theory             3 hrs
ECO 3203  Aggregate Econ Conditions Anal         3 hrs

Upper Division Restricted Electives              (9 hrs)
Select from any ECO, ECP or ECS courses at the 3000-4000 level, excluding ECO 3401. Note: ECO 3401 is a pre-requisite for ECO 3411.

Other Requirements:
1. A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
2. Grades below “C” (2.0) are not accepted.
3. At least 9 hours used in the minor must be earned at UCF within the department.
4. 3 hours of Internship or Independent Study credit can be used toward the minor with prior approval of the economic advisor.

EMERGENCY MANAGEMENT AND HOMELAND SECURITY: Minor
College of Health and Public Affairs
Department of Public Administration, HPA2 238
Mr. Robert Morin, 407-823-2604; fax: 407-823-5651
Email: rmorin@mail.ucf.edu
The minor in emergency management and homeland security provides students with an opportunity to comprehensively study the disaster management cycle, including emergency planning, mitigation, response and recovery. In an age of dense population, increased terrorism, unpredictable weather and high public expectations of risk reduction and public leadership, this is an exciting area of study. Students who complete a minor in emergency management and homeland security gain additional insight and knowledge that will help them find positions in various federal, state and local government or nonprofit organizations. Some of these may include the Environmental Protection Agency, Occupational Health and Safety Administration, the Orange County Emergency Management Division, the Federal Emergency Management Agency, the Department of Homeland Security and state and local Homeland Security agencies.

Credit Hour Requirements                        18 hrs
Core Courses                                    (15 hrs)
PAD 4110  Intergovernmental Administration      3 hrs
PAD 4392  Emergency Management and Homeland Security 3 hrs
PAD 4712  Information Systems for Public Managers and Planners 3 hrs
PAD 4395  Disaster Response and Recovery         3 hrs
PAD 4390  Hazard Mitigation and Preparedness      3 hrs

Restricted Electives (select one)               (3 hrs)
CCJ 4661  Conflict & Terrorism                   3 hrs
HSA 4938  Health Issues in Disasters             3 hrs

Other Requirements:
1. A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
2. Grades below “C” (2.0) or “S” grades are not accepted.
3. At least 15 hours used in the minor must be earned at UCF within the department.
4. Internship or Independent Study cannot be used toward the minor.

ENGLISH - CREATIVE WRITING: Minor
College of Arts and Humanities
Department of English, CHN 301
english@ucf.edu
T. Krise, 407-823-2212
Credit Hour Requirements                        21 hrs
Required Course                                 (3 hrs)
CRW 3013  Creative Writing for English Majors    3 hrs

Restricted Elective Courses                    (6 hrs)
Select one course after completing CRW 3013
CRW 3120  Fiction Writing Workshop
CRW 3111  Creative Nonfiction Writing
CRW 3310  Poetry Writing Workshop
Select one course
CRW 4122  Advanced Fiction Writing Workshop (PR: CRW 3120)
CRW 4224  Advanced Nonfiction Workshop (PR: CRW 3111)
CRW 4320  Advanced Poetry Writing Workshop (PR: CRW 3310)

Restricted Upper Division Electives (12 hrs)
CRW 3311  Structure of Verse
CRW 3310  Writing Scripts
CRW 4114  History of Prose Style
CRW 5932  Teaching Creative Writing
and any of the above courses not already used
Other Requirements
- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - LINGUISTICS: Minor
College of Arts and Humanities
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 18 hrs
Required Courses (9 hrs)
LIN 3010 Introduction to Linguistics 3 hrs
LIN 4100 History of the English Language 3 hrs
LIN 4680 Modern English Grammar 3 hrs

Restricted Upper Division Electives (9 hrs)
LIN 4643 Cross Cultural Communication
LIN 4660 Linguistics and Literature
LIN 4601 Language and Meaning
LIN 5137 Linguistics
ANT 3640 Language and Culture
PHI 4400 Philosophy of Science
or any course approved by the Linguistics Committee

Other Requirements
- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - LITERATURE: Minor
College of Arts and Humanities
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 21 hrs
Required Course (3 hrs)
ENG 3014 Theories and Techniques of Lit Study
(PR for all 4000 level AML, ENG, ENL, and LIT courses)

Restricted Upper Division Electives (18 hrs)
English courses with AML, ENG, ENL, or LIT prefixes chosen by student and departmental advisor

Other Requirements
- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF within the department, and must be regularly scheduled, upper level courses.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - TECHNICAL WRITING & EDITING: Minor
College of Arts and Humanities
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 18 hrs
Choose 18 hours from the following Required courses
ENC 3211 Theory & Practice of Tech Writing 3 hrs
ENC 3241 Writing for the Technical Professional 3 hrs
ENC 4215 Technical Publication and Project Management 3 hrs
ENC 4218 The Visual Elements in Technical Communication 3 hrs
ENC 4293 Documentation and the Collaborative Process 3 hrs
ENC 4294 Documentation and Client-Based Collaboration 3 hrs
ENC 4295 Capstone Experience in Technical Writing 3 hrs

Students completing the minor may intern with a Central Florida corporation

Other Requirements
- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - WRITING: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
T. Krise, 407-823-2212

Credit Hour Requirements 18 hrs
Restricted Elective Courses (18 hrs)
Any 3000 or 4000 level ENC or CRW classes for which the student has met the prerequisites, including
CRW 3013 Creative Writing for English Majors
CRW 3120 Fiction Writing Workshop
CRW 3211 Creative Nonfiction Writing
CRW 3310 Poetry Writing Workshop
CRW 3311 Structure of Verse
CRW 3610 Writing Scripts
CRW 4122 Advanced Fiction Writing Workshop
CRW 4123 Science Fiction Writing
CRW 4224 Advanced Nonfiction Workshop
CRW 4320 Advanced Poetry Writing Workshop
ENC 3211 Theory and Practice of Technical Writing
ENC 3241 Writing for the Technical Professional
ENC 3290 Professional Writing
ENC 3310 Magazine Writing I
ENC 3311 Advanced Expository Writing

Other Requirements
- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENTREPRENEURSHIP: Business Minor
(Open to Business Students)
College of Business Administration
Management Department, BA1 309

Credit Hour Requirements 18 hrs
Required Courses (15 hrs)
MAN 3301 Human Resource Management
MAN 4802 Entrepreneurship
MAR 3391 Professional Sales or MAR 3641 Marketing Intelligence
GEB 4111 New Venture Finance
GEB 4117 Business Plan Preparation

Restrictive Elective (3hrs)
Any 3000 or 4000 MAN course or BUL 4540 not in CCB Common Body of Knowledge

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- At least nine hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- A maximum of 9 hours of required or elective coursework can count toward another major or minor degree program

ENVIRONMENTAL STUDIES: Minor
Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies
http://liberalstudies.info

267
Minors

E-mail: ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

The Environmental Studies minor is an interdisciplinary program that prepares students for a diverse set of academic endeavors and careers. It delivers the tradition of a liberal arts education with the rigor of the natural and social sciences, providing the introspection and artistic presentation of the humanities with the inquisitiveness that we share concerning our environment.

Credit Hour Requirements 21 hours

Note: It is the student’s responsibility to ensure that any prerequisite courses have been completed before enrolling in any of these courses requiring a prerequisite.

Required Course

IDS 3150 Foundations of Environmental Studies 3 hrs

Science & Environmental Electives (9 hrs)

Natural Sciences

BSC 1050L Biology and Environment + lab
BSC 2011C Biology II
BOT 3152C Local Flora
BOT 4156C Florida Wildflowers
BOT 3800 Ethnobotany
BOT 4303C Plant Kingdom
BOT 4686C Conservation and Management of Native Plants
BOT 5623C Plant Geography and Ecology
BOT 4713C Plant Taxonomy
BSC 4312C Marine Biology
PCB 3044CL Principles of Ecology and Lab
PCB 3442 Florida Aquatic Ecology
PCB 4302C Physicochemical Limnology
PCB 4303C Biological Limnology
PCB 4683 Population Biology and Evolution
PCB 5045C Conservation Biology
PCB 5326C Ecosystems of Florida
PCB 5435C Marine Ecology of Florida
PCB 5485 Models in Ecology
PCB 5328C Landscape Ecology
CHM 3102O Analytical Chemistry
CHS 4615 Environmental Chemistry
Epidemiology

Environmental Engineering

ENV 3001 Introduction to Environmental Engineering
ENV 4341 Solid Waste Management

Social & Humanities Electives (9 hrs)

Environment & Society

ECP 3303 Economics and the Environment or
ECP 4302 Economics of the Environment
ECO 4701 The Global Economy
INR 4351 International Environmental Law
PUP 3203 Environmental Politics
PUP 4503 Government and Science
PAP 4351 Issues in Environmental Program Management
PAP 5356 Introduction to Urban Planning
PAP 5358 Land Use and Planning Law
PLA 4631 Land Use and Environmental Law
PUP 4204 Sustainability

Geography

GEO 2370 Resources Geography
GEO 3042C GIS for Environmental Studies
GEO 401C Advanced GIS Applications in Environmental Studies
GEO 4035C Remote Sensing of the Environment

Philosophy

PHI 3033 Philosophy, Religion, and the Environment
PHI 4430 Philosophy of Science
PHI 3640 Environmental Ethics
PHI 4633 Ethics and Biological Science
PHM 4031 Environmental Philosophy
PHM 5035 Environmental Philosophy

Sociology

SOP 3004 Social Psychology
SCS 4023 Teaching Science and Technology to Children
ANT 3312 Ethnology of North American Indians

Writing, Journalism Courses

JOU 4181 Public Affairs Reporting
PGY 3610C Photographic Journalism I
LIT 4433 Survey of Technical and Scientific Literature

Other Requirements

H A grade of “C” or above (2.0) is required in each course used to satisfy the minor.
H Internship, independent study, and co-op credit cannot be used in this minor.
H Liberal Studies advisors to be used toward the minor.

European Studies Minor

College of Sciences

Department of Political Science, CNH 415
http://www.cas.ucf.edu/politicalscience

E-mail: politics@mail.ucf.edu

Contact: Kerstin Hamann, 407-823-2608;

An interdisciplinary minor that offers students a general background of the politics, history, literature, art, and culture of Europe with an emphasis on the post-World War II period. Courses are to be selected in consultation with a departmental advisor or the director of European Studies.

Credit hour requirements: 21 hrs

Students are responsible for meeting any prerequisites for the courses in the minor.

Required core courses:

(6 hrs)
CPO 4101 Politics of the European Union
LIT 3082 Continental European Fiction

Restricted Electives:

(12 hrs)

Literature, Film, and Culture:

(3 hrs)

ENL 2022 English Literature II
ENL 4101 English Novel
ENL 4240 English Romantic Writers
ENL 4262 19th Century British Prose
ENL 4273 Modern British Literature
FIL 3520 Italian Film
FIL 3521 French Film
FIL 3522 German Film
FRE 4500 French Civilization and Culture
FRW 4281 20th Century French Novels
FRW 4324 20th Century French Drama
FRW 4532 French Romanticism
FRW 4552 Nineteenth Century French Literature
GER 3102 Germany - Past to Present
GER 4520 Modern Germany
GEW 3101 Survey of German Literature II
GEW 3370 German Short Story
GEW 3480 German Post-War Literature
GEW 4482 German Children's Literature
GEW 4531 The Age of Goethe and Schiller
ITT 4956 Study Abroad: Italian Civilization
ITW 3101 Survey of Italian Literature II
JST 3751 Literature of the Holocaust
LIT 4184 Irish Literature
MUL 3604 German Song Literature
MUL 3605 French Song Literature
SPW 3101 Survey of Spanish Literature I
SPW 3370 Spanish Short Story
SPW 4272 20th Century Spanish Novel
SPW 4322 Contemporary Iberian Theatre
SPW 4450 Spanish Literary Theory
SPW 4460 Nineteenth Century Spanish Literature
SPW 4720 The Generation of 1898

History

(6 hrs)
EUH 3235 Romanticism and Realism
EUH 3242 Modern Europe and the First World War
EUH 3281 Second World War and Rebirth of Europe
EUH 3315 History of Modern Spain
EUH 3411 Ancient Rome
EUH 3431 History of Modern Italy
EUH 3451 History of Modern France
EUH 4284 Fascism and the Totalitarian Dictatorships
EUH 4400 The History of Ancient Greece
EUH 4465 Hitler's Third Reich
EUH 4501 English History: 1485-1815
EUH 4502 English History: 1815-Present
EUH 4574 History of Russia: 1801-1917
EUH 4576 History of Russia in the 20th Century
EUH 4582 20th Century Russian Diplomatic History
EUH 4610 Women in European Society
EUH 4620 European Great Powers: 1815-1914
GER 4510 Life and Culture in Nazi Germany
JST 3701 History of the Holocaust

Political Science or Economics

(3 hrs)
Minors

EXCEPTIONAL EDUCATION: Minor

College of Education
Department of Child, Family, and Community Sciences

ED 209; http://www.education.ucf.edu
Program Coordinator: Dr. Lee Cross
ED 315-N, 407-823-5477
E-mail: lcross@mail.ucf.edu

The Exceptional Education minor is intended to provide a limited, but substantive experience in the fields of education and exceptional children. The minor is not intended for students enrolled in the College of Education and does not lead to teacher certification nor admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career in the fields of education or exceptional education. This minor will strengthen the marketability of the student’s major program. This minor is available for students in the 2001 catalog and beyond.

Credit Hour Requirements

Required Courses (18 hrs)
- RED 3012 Basic Foundations of Reading 3 hrs
- EEK 4003 Teaching Exceptional Students 3 hrs
- EEK 4601 Introduction to Behavior Management 3 hrs
- EEK 4753 Parent/Professional Collaboration 3 hrs
- EDF 4003 Analysis of Critical Issues in Education 3 hrs
- EEK 3243 Techniques for Exceptional Adolescents/Adults or
- EEK 3241 Methods for Academic Skills for Excep. Students 3 hrs

Restricted Electives (2-3 hrs)
- EEX 4054 Applications and Theories for Students with Special Needs 2 hrs
- EDF 4214 Classroom Learning Principles 3 hrs

Other Requirements
- Completion of all parts of the General Knowledge test and/or CLAST with appropriate passing scores (no alternatives or waivers), or completion of an AA degree from a Florida public post secondary institution, including completion of CLAST with appropriate scores or alternatives.
- A minimum GPA of 2.5 of all Gordon Rule classes including ENC 1101, 1102, and two college level math courses, MAC 1105 or higher, is required
- No Military credit may be used. Transfer credits from other universities will be considered.

Note: Completion of the minor does not complete the requirements for certification in Exceptional Education nor does it constitute admission in the College of Education.

FINANCE: Minor

(Open to Business and Non-Business Students)

Not available to Finance Majors

College of Business Administration
Department of Finance, BA 409
http://www.bus.ucf.edu/finance

Credit Hour Requirements

Required Courses: 12 hrs
- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- ECO 2013 Principles of Macroeconomics
- ECO 2023 Principles of Microeconomics

Required courses: 9 hrs
- FIN 2104 Personal Finance and Investments 3 hrs
- FIN 3403 Business Finance 3 hrs
- FIN 3303 Financial Markets 3 hrs

Electives (select three of the following) 9 hrs
- FIN 3414 Intermediate Corporate Finance 3 hrs
- FIN 3470 Financial Statement Analysis 3 hrs
- FIN 3504 Investment Analysis 3 hrs
- FIN 4313 Management of Financial Institutions 3 hrs
- FIN 4324 Commercial Bank Management 3 hrs
- FIN 4424 Advanced Topics in Financial Management 3 hrs
- FIN 4535 Financial Models 3 hrs
- FIN 4514 Portfolio Analysis and Management 3 hrs
- FIN 4533 Financial Derivatives 3 hrs
- FIN 4604 International Financial Management 3 hrs

Other Requirements
- A student minorin in finance must earn a grade of "C" (2.0) or higher in each course applied toward the requirements for the minor. Students must have an overall GPA of 2.0 or higher in all courses attempted in the minor.
- Grades below "C" (2.0) are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
Minors

- No credit by exam (TSD, Military credit) may be used.
- Internship or independent study credit cannot be used toward the minor.
- A maximum of 6 hours of the above listed required or elective courses can count toward another major or minor degree program.

FITNESS TRAINING: Minor
College of Education
Department of Teaching and Learning Principles, ED 209
http://pegasus.cc.ucf.edu/~ucfphyed/minors.htm
Program Coordinator: Dr. Patricia Higginbotham
ED 320 H, 407-823-2050
Email: higginbp@mail.ucf.edu

The Fitness Training minor is developed to provide the student interested in working in wellness centers as personal trainers the knowledge and experience to be successful in this growing and exciting area. The goal is to provide guided practical skills application to those students who wish to teach fitness related concepts to individuals and/or groups.

With the knowledge acquired from the completion of the required coursework for the Fitness Training Minor, students will be prepared and eligible to receive certification from The American Council on Exercise. This Minor is available for students in the 2001 Catalog Year and beyond.

Credit Hour Requirements 18 hrs

- PET 2622C Human Anatomy 4 hrs
- PET 4550 Practical Fitness Training 3 hrs
- PET 4312 Biomechanics 3 hrs
- PET 4083C Exercise Physiology 3 hrs
- PET 4311 Physical Education 2 hrs
- PET 4083C Exercise Physiology 3 hrs
- ZOO 3736C Exercise Physiology Anatomy 4 hrs
- HSF 3531 Medical Terminology 3 hrs
- HSF 3110C Management Systems 3 hrs

* If the student has completed a Human Anatomy course with a laboratory requirement at another school, it can be substituted for ZOO3736C. This is also true for the Human Injuries course, PET2622C and the PEM 2171 Aerobics course. Both of these courses are often completed at a community college.

Note: ZOO 3736C should be taken prior to PET 4312, PET 4550, and PET 4083C

Other Requirements
- No grades below “C” (1.75) and no “S” grades will be accepted.
- At least 12 hours in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

FRENCH: Minor
College of Arts and Humanities
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/furlang
Modernlanguage@ucf.edu
P. Giordano, 407-823-2472

Credit Hour Requirements 18 hrs

Restricted Electives
- Select six upper division courses in French, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements
- A grade of “C” (2.0) or better is required in courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

GERMAN: Minor
College of Arts and Humanities
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/furlang
Modernlanguage@ucf.edu
P. Giordano, 407-823-2472

Credit Hour Requirements 18 hrs

Restricted Electives
- Select six upper division courses in German, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements
- A grade of “C” (2.0) or better is required in courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

HEALTH INFORMATION MANAGEMENT: Minor
College of Health and Public Affairs
Department of Health Professions, HPA2 210
Thomas J. Falen, 407-823-2369
Email: tfalen@mail.ucf.edu

Credit Hour Requirements 20 hrs

Required Courses (20 hrs)
- HIM 3005H Foundations of Health Information Management 3 hrs
- HIM 4650H Health Information Management Systems 3 hrs
- HIM 4226C Coding Procedures I 5 hrs
- HIM 4256C Coding Procedures II 3 hrs
- HIM 4256C Coding Procedures II 3 hrs

Other Requirements
- A minimum overall GPA of 2.5 is required. A minimum grade of “C” (2.0) is required in each course for the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by examination (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor without departmental approval.

HEALTH SCIENCES: Minor
College of Health and Public Affairs
Department of Health Professions, HPA2 212
L. Timothy Worrell, 407-823-2214
E-mail: worrell@mail.ucf.edu

Credit Hour Requirements 18 hrs

Required Courses (9 hrs)
- HSA 3111 U.S. Health Care Systems 3 hrs
- HLN 2002 Modern Concepts of Nutrition 3 hrs
- HSC 3110C Medical Self Assessment 3 hrs

Restricted Upper Division Electives (9 hrs)
- 9 additional hours of upper division courses in the Health Professions department.

Other Requirements
- Majors may not count courses presently required in a department.
- A minimum GPA of 2.5 is required in all coursework, and a minimum grade of “C” (2.0) is required in all Health Professions courses.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.
HEALTH SERVICES ADMINISTRATION: Minor
College of Health and Public Affairs
Department of Health Professions, HPA 210
Thomas Falen, 407-823-2269
Email: falen@email.ucf.edu

Credit Hour Requirements
Required Courses (15 hrs)
HSA 2111 U.S. Health Care Systems 3 hrs
HSA 4201 Community Health Services 3 hrs
HSA 4180 Org and Mgmt for Health Agencies 3 hrs
HSA 4191 Health Care Automation 3 hrs
HSC 4500 Epidemiology 3 hrs

Restricted Elective (3 hrs)
HSC 3640 Health Law or
HSC 4563 Health Care Ethics or
HSA 4109 Managed Care or
HSA 4502 Risk Management or HIM 4506 Quality Management
HSA 4702 Health Science Research Methods

(Additional prerequisite courses may be required)

Other Requirements
A minimum GPA of 2.5 is required in all coursework, and a minimum grade of “C” (2.0) is required in all courses for the minor.
Grades less than “C” (1.75) are not accepted.
At least 15 hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.
Internship or Independent Study credit cannot be used toward the minor.

HISTORY: Minor
College of Arts and Humanities
Department of History, CNH 551
http://pegasus.cc.ucf.edu/~history/history@ucf.edu
Edmund F. Kallina, 407-823-2224

Credit Hour Requirements
Restrained Upper Division Electives (15 hrs)

History Elective (3 hrs)
Any course taught within the History Department

Other Requirements
A grade of ÔC-Ô (1.75) or better is required in all courses used to satisfy the minor.
At least 12 hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used without academic advisor’s approval.
Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental approval.

HOSPITALITY MANAGEMENT: Minor
Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, FL 32819
407-903-8000
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

Credit Hour Requirements
Required Courses (15 hrs)
HFT 1000 Introduction to Hospitality Mgmt 3 hrs
HFT 3540 Guest Services Management I 3 hrs
Choose any two courses from the following: (6 hrs)
HFT 2403 Hospitality Financial Accounting 3 hrs
HFT 3431 Hospitality Managerial Accounting 3 hrs
HFT 2500 Hospitality Marketing 3 hrs
HFT 2220 Hospitality Human Resource Mgmt 3 hrs
HFT 3444 Hospitality Information Systems 3 hrs
HFT 3600 Legal Environment in Hospitality 3 hrs
HFT 4462 Hospitality Industry Finance 3 hrs
HFT 4286 Hospitality Communications 3 hrs
Choose any two courses from the following: (6 hrs)
HFT 3700 Tourism Management 3 hrs

Credit Hour Requirements
18 hrs

Credit Hour Requirements
18 hrs

Credit Hour Requirements
18 hrs

Credit Hour Requirements
18 hrs

Credit Hour Requirements
21 hrs

Credit Hour Requirements
6 hrs

Select two courses:
HUM 3401 Ancient Humanities
HUM 3435 Medieval Humanities
HUM 3255 Modern Humanities
HUM 3252 Contemporary Humanities

Humanistic/Religious Traditions
Select two courses:
HUM 3435 Medieval Humanities
HUM 3417 Hindu Thought and Culture
HUM 3419 Islamic Thought and Culture
HUM 3552 Christian Thought
HUM 3553 Moses, Jesus and Muhammad
ANT 3245 Native American Religions

Applications
Select two courses:
PHI 3803 Philosophy and Creativity
PHI 3033 Philosophy, Religion, and the Environment
PHM 3123 Feminist Theories
REL 3162 Healing: Culture, Art, and Praxis
REL 3115 Religion, Spirituality, and Popular Music
REL 3111 Religion and Philosophy through Film
HUM 4554 Religious Quest and the Human Dilemma
HUM 4530 Performance Theory
PHI 3022 Sexuality, Gender & Philosophy
PHI 3638 Ethical Issues in the 21st Century
PHI 4321 Philosophies of Embodiment: Mind/Body/Self

Upper Division Restricted Elective
Select one additional course from the above list or from the following:
HUM 3320 Introduction to Humanities
HUM 4301 Comparative Mythology
HUM 4303 Classical Ideal
HUM 4305 Spiritual Ideal
PHI 4804 Critical Theory
PHI 3800 Aesthetics
PHI 3700 Philosophy of Religion
CLA 3850 Classical Mythology
CLA 3851 Comparative Mythology

Other Requirements
A “C” (2.0) grade or better is required in all courses used to satisfy the minor.
At least 15 hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.

HUMANITIES: Minor
College of Arts and Humanities
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy/philosophy@ucf.edu
Bruce Janz, 407-823-2273

A multicultural minor focusing on the art, literature, philosophy, and religion of various world cultures. This minor is intended to provide a limited, yet substantive, introduction to humanities themes related to knowledge, responsibility, and society. Students interested in the Liberal Arts major may find this minor particularly helpful. In consultation with a departmental advisor, student will select courses in accordance with the distributions listed below.

Credit Hour Requirements
21 hrs

Humanities Foundations
Select two courses:
HUM 3401 Asian Humanities
HUM 3435 Medieval Humanities
HUM 3252 Contemporary Humanities

Humanistic/Religious Traditions
Select two courses:
HUM 3401 Asian Humanities
HUM 3417 Hindu Thought and Culture
HUM 3419 Islamic Thought and Culture
HUM 3552 Christian Thought
HUM 3553 Moses, Jesus and Muhammad
ANT 3245 Native American Religions

Applications
Select two courses:
PHI 3803 Philosophy and Creativity
PHI 3033 Philosophy, Religion, and the Environment
PHM 3123 Feminist Theories
REL 3162 Healing: Culture, Art, and Praxis
REL 3115 Religion, Spirituality, and Popular Music
REL 3111 Religion and Philosophy through Film
HUM 4554 Religious Quest and the Human Dilemma
HUM 4530 Performance Theory
PHI 3022 Sexuality, Gender & Philosophy
PHI 3638 Ethical Issues in the 21st Century
PHI 4321 Philosophies of Embodiment: Mind/Body/Self

Upper Division Restricted Elective
Select one additional course from the above list or from the following:
HUM 3320 Introduction to Humanities
HUM 4301 Comparative Mythology
HUM 4303 Classical Ideal
HUM 4305 Spiritual Ideal
PHI 4804 Critical Theory
PHI 3800 Aesthetics
PHI 3700 Philosophy of Religion
CLA 3850 Classical Mythology
CLA 3851 Comparative Mythology

Other Requirements
A “C” (2.0) grade or better is required in all courses used to satisfy the minor.
At least 15 hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.
Minors

- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

**INFORMATION TECHNOLOGY: Minor**

**College of Engineering and Computer Science**

**School of Electrical Engineering & Computer Science**

**Harris Corp Engineering Ctr, Rm 245**

E-mail: computerscience@ucf.edu

http://www.cs.ucf.edu

Mark Llewellyn, 407-823-2341

**Credit Hour Requirements**: 18-19 hours

**Required Courses**: (3-7 hrs)

Select one of the following options:

- **Option 1**: Not open to Computer Science Minors or Liberal Studies Majors:
  - CGS 1060C or CGS 2100CC 3 hrs
  - COP 2500C Concepts in Computer Science 4 hrs

- **Option 2**: Not open to Computer Science Minors or Liberal Studies Majors:
  - COP 3223 Intro to Programming with C 3 hrs
  - COP 3502C Computer Science I 3 hrs

- **Option 3**: Computer Science Minors and Liberal Studies Majors Only:
  - CGS 1060C or CGS 2100CC 3 hrs

**Restricted Electives**: (9 hrs)

Select from the following:

- CGS 3346C Unix Operating Systems 3 hrs
- CGS 2545C Database Concepts 3 hrs
- CGS 2585C Desktop/Internet Publishing 3 hrs
- CGS 3175 Internet Applications 3 hrs
- CGS 3269 Computer Architecture Concepts 3 hrs
- CGS 3285 Computer Networks Concepts 3 hrs
- CGS 3763 Operating Systems Concepts 3 hrs

**College Electives**: (3-6 hrs)

Options 1 and 2 3 hrs
Options 3 6 hrs

Any upper division courses offered within Computer Science at UCF or additional courses chosen from the restricted electives (exclusive of independent studies, internships, and those courses listed under Required Courses). See other requirements.

**Other Requirements**

- Not open to Information Technology majors.
- A minimum grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned within the Computer Science program at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit cannot be used toward the minor.
- The courses used to satisfy the college electives for this minor cannot also be used to satisfy the requirements for a Computer Science Minor.

**INTERNATIONAL AND GLOBAL STUDIES: MINOR**

**College of Sciences**

**Department of Political Science, CNN 415**

http://www.cs.ucf.edu/politicalscience

email: politics@ucf.edu

Contact: Waultur Morales, 407-823-2608

Students taking the International and Global Studies Minor will examine the interactions between nations and the political processes within nations using a variety of perspectives. International aspects focus on how countries interact with one another, and how the social and cultural systems within them affect these interactions. Global studies looks at intra-national factors, such as how a state's internal characteristics impact that state's political processes. Immigration, technological advancements and internationalization of foreign policy make global studies a complementary approach to international studies.

**Credit Hour Requirements**: 21-32 hrs

**Note**: It is the student's responsibility to satisfy course prerequisites.

**Core Courses**: (6 hrs)

- IDS 4315 Global Perspectives
- GEO 3471 World Political geography

**Restricted Political Science Electives** (Select one) 3 hrs

- INR 4090 Diplomacy
- INR 4076 Global Drug Policy

**International Area Studies Electives** (6 hrs)

Two upper division courses from one of the following area studies programs.

Courses may not have a prefix of INR, CPO, POT, POS or PUP.

Asian Studies, European Studies, Latin American, Caribbean and Latino Studies, Middle Eastern Studies

**Restricted Electives**: (3 hrs)

- INR 4075 Human Rights Policy
- INR 4714 International Trade Policy
- INR 4035 Politics of International Political Eco
- INR 4603 International Political Theory
- INR 4350 Global Environmental Politics
- INR 4502 International Organizations

**Language Requirement**: (3-14 hrs)

- 3-credit Foreign Language across the Curriculum (FLAC) courses
- Foreign Language Requirement: Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

**INTERNATIONAL BUSINESS: Minor for Business Majors**

**College of Business Administration**

**Office of Student Support, BA 240**

Richard Ajayi, 407-823-5908

**Credit Hour Requirements**: 18 hrs

**Required Courses**: (12 hrs)

- ECO 3703 International Trade or
- ECO 4XXX International Macroeconomics
- FIN 4604 International Financial Management
- MAN 4600 International Management or
- MAR 4156 International Marketing

**Elective**: (6 hrs)

- ECO 3703 International Trade
- ECO 4XXX International Macroeconomics
- ECO 4701 Seminar in Global Economic Policy
- ECS 4013 Economics of Developing Areas
- GEO 3471 World Political Geography
- INR 4035 International Political Economy
- INR 4224 Contemporary International Politics of Asia
- INR 4243 International Politics of Latin America
- INR 4401 International Law I
- MAR 4724 Strategic Foundations in Global e-Business

**Special Topics Seminars in International Business**: 3000/4000 level foreign language course.

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the College of Business Administration.
Minors

INTERNETRODUCATIONAL COMMUNICATION: Minor
College of Sciences
Nicholson School of Communication, COM 258
407-823-2852
http://www.cas.ucf.edu/communication
E-mail: communication@ucf.edu
Contact: Susan Jefferson

Not open to Interpersonal/Organizational Communication majors.

Credit Hour Requirements 21 hrs
Required Courses (6 hrs)
- COM 3311 Communication Research Methods
- SPC 3301 Interpersonal Communication

Restricted Electives (15 hrs)
- COM 311C Communication and Human Relations
- SPC 4331 Nonverbal Communication
- SPC 4540 Attitudes and Communication
- SPC 4426 Group Dynamics
- COM 4461 Intercultural Communication
- COM 4462 Conflict Management
- Independent study or Special topics course if approved by the coordinator prior to enrolling in the class

Other Requirements
- A minimum average GPA of 2.0 is required in courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can be used toward the minor with prior approval.

INTELLIGENT ROBOTIC SYSTEMS (IRS): INTERDISCIPLINARY Minor
College of Engineering and Computer Science
CECS Academic Affairs, ENGR 107
Paul Edlen, 407-823-2455, paule@mail.ucf.edu
http://www.cecs.ucf.edu

Credit Hour Requirements 18 hrs
Required Courses
- EML 3262 Kinematics of Mechanism 3 hrs
- EML 3804 Digital Control in Mechatronics 3 hrs
- EEL 4750 Digital Signal Proc Fund 3 hrs
- EEL 4664 Autonomous Robotic Systems 3 hrs
- EEL 4612 Intro to Modern and Robust Ctrl 3 hrs
- EEL 4750 Digital Signal Proc Fund 3 hrs
- EEL 5173 Linear Systems Theory 3 hrs
- EEL 5513 DSP Applications 3 hrs
- EEL 5630 Digital Control Systems 3 hrs
- EEL 5820 Image Processing 3 hrs
- EEL 5825 Pattern Recognitation 3 hrs
- EML 5311 System Control 3 hrs
- CAP 5415 Computer Vision 3 hrs
- CAP 5512 Evolutionary Computation 3 hrs
- CAP 5610 Machine Learning 3 hrs
- Mechatronics and MEMS 3 hrs
- EML 3804 Digital Control in Mechatronics 3 hrs
- EEL 5025 Applied Control Systems 3 hrs
- EML 5290 Intro to MEMS & Micromachining 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all the courses used to satisfy the minor.
- Students whose major requires senior design courses are encouraged to take the multidisciplinary senior design course (EGR 4412 and EGR 4413) and to undertake a project in intelligent robotic systems. If done, a certificate will be issued with the minor.
- A high-level programming language class (EGR 3210 or COP 3223 or equivalent) is required for the minor.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ITISCultural Studies: Minor
College of Arts and Humanities
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang/
E-mail: modlang@ucf.edu
P. Giordano, 407-823-2472

Credit Hour Requirements 18 hrs
Restricted Electives
- Select 6 upper division courses in Italian, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements
- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.
LATIN AMERICA AREA STUDIES: Minor

College of Arts and Humanities

VAB 203
(407) 823-1173 or 1174
Dr. Luis Martinez-Fernandez, Program Director
martfern@mail.ucf.edu

The minor provides students with an interdisciplinary knowledge of, and the necessary tools to understand, Latin America, its people and its culture. Students completing the minor shall be prepared to apply their knowledge about Latin America in a variety of careers including, but not limited to: education, government, journalism, foreign service, social and community service, international trade and public relations.

Credit Hour Requirements 18 hrs

Admission Requirement
Admission by interview with the Program Director.

Required Skills
Successful completion of SPN 1120 and SPN 1121 or demonstration of proficiency.

Restricted Electives (18 hrs)
At least 6 hours must be from one disciplinary group, and at least 3 hours from two additional groups. The other 12 must be selected from any of the disciplinary groups. Additional courses not listed below may substitute with prior approval from the Program Director.

Anthropology:
ANT 3164 Ancient Incas
ANT 3168 Maya Archaeology
ANT 3352A0 People and Cultures of Latin America
ANT 4340 Caribbean Cultures
ANT 4308A0 Gender Issues in Latin America
ANT 3168 Maya Archeology

Art History:
ARH 4655 Meso American Art
ARH 3673 Modern Art of Mexico
ARH 3670 20th Century Latin American Art

Modern Languages and Literature:
SPN 2200 Intermediate Modern Hebrew Language and Culture
FRW 3770 Francophone Literature
SPW 3130 Survey of Latin American Literature I
SPW 3131 Survey of Latin American Literature II
LIT 3192 Caribbean Literature
FRW 3752 French Caribbean Literature
SPW 4382 Literature of Central America
AML 3615 Harlem, Haiti, and Havana
AML 4630 Latin@/Latino Literature
SPN 3852 Bilingualism
SPW 4730 Hispanic Literature of the United States
SPN 4780 Spanish Phonetics

History:
LAH 3130A0 Latin American History I
LAH 3200 Latin American History II
LAH 3409A0 History of Mexico and Central America
LAH 3470 History of the Caribbean
AMH 3586 History of the Hispanic minorities in the US

Latin American Studies:
LAS 4906 Independent Study in Latin American, Caribbean and Latino Studies
LAS 4023 African Caribbean Experience

LEGAL STUDIES: Minor

College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA 311
David B. Slaughter, 407-823-2603
E-mail: dslaught@mail.ucf.edu

Credit Hour Requirements 21 hrs

Required Courses (3 hrs)
PLA 3013 Law and the Legal System

Restricted Upper Division Electives (15 hrs)
15 semester hours of legal studies courses selected with the aid of an advisor.

Restricted Electives (3 hrs)
3 semester hours of law-related courses selected with the aid of an advisor.

Other Requirements
A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
Grades less than “C-” (1.75) are not accepted.
At least 15 hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.
Internship or Independent Study credit cannot be used toward the minor.

MAGAZINE JOURNALISM: Minor

College of Sciences
Nicholson School of Communication, COM 258
http://www.cas.ucf.edu/communication
E-mail: journalism@ucf.edu
Contact: Fred Feder, 407-823-2839

Prerequisites
Grammar proficiency requirement
A minimum UCF GPA of 3.3

Credit Hour Requirements 18 hrs

Required courses (9 hrs)
JOU 2100C News Reporting 3 hrs
JOU 3510 Magazine Publishing 3 hrs
JOU 4224 Magazine Editing and Production 3 hrs

Restricted Upper Division Electives (9 hrs)
ENC 3310 Magazine Writing I 3 hrs
JOU 3201 Editing I 3 hrs
JOU 3202 Editing II 3 hrs
JOU 4300 Feature Writing 3 hrs
JOU 4308 Freelance Writing 3 hrs
JOU 4340C New Media Studies 3 hrs

Other Requirements
A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
Grades below “C” (2.0) in lower level courses are not accepted.
At least 15 hours used in the minor must be earned at UCF within the School of Communication.
No credit by exam (TSD, Military credit) may be used.
Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.
MAJOR INFORMATION
SYSTEMS: Minor

For both Business and Non-Business Majors

College of Business Administration
Department of MIS, BA 325
407-823-3173

Credit Hour Requirements 19 hrs

Prerequisite courses

- CGS 2100C Computer Fundamentals for Business or
- CGS 1060C Intro to Computer Science (or equivalent)
- MAC 1105 College Algebra or
- MGF 1106 Finite Mathematics

Required Courses 10 hrs

- ISM 3011 Management Information Systems 3 hrs
- ISM 3523 MIS Techniques 4 hrs
- ISM 4212C Database Management 3 hrs

Electives (choose three) 9 hrs

Any 4000 or 5000 Level ISM course from those listed below or others with the permission of the MIS Department Chair.

- ISM 4113 Information Systems Analysis and Design
- ISM 4130 Information Systems Implementation
- ISM 4220 Distributed Information Systems
- ISM 4300 Technology Management
- ISM 4480 Electronic Commerce Systems
- ISM 4932 Special Topic Course
- ISM 5315 Information Systems Project Management
- ISM 5219 Business Intelligence Systems

Other Requirements

- Courses in the MIS major may substitute for required and elective courses with approval of department chair.
- A grade of “C” (2.0) is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) are not accepted.
- At least 9 hours of upper division credit used in the minor must be earned at UCF.
- Minor is not available to MIS Majors.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

MASS COMMUNICATION: Minor

College of Sciences
Nicholson School of Communication, COM 228
http://www.cas.ucf.edu/communication

E-mail: communication@ucf.edu
Contact: M. A. Shaver, 407-823-2661 or
J. Jefferson, 407-823-3978

Credit Hour Requirements 18 hrs

Restricted Electives 18 hrs

Select from the following:

- MMC 2004 Mass Media
- ADV 3000 Principles of Advertising
- COM 3300 Computer Mediated Communication
- FIL 2400 History of Motion Pictures
- FIL 3006 Art of the Cinema
- FIL 3410 History of Animated Films I
- JOU 3004 History of American Journalism
- MMC 3420 Mass Media Research Methods
- MMC 4200 Mass Communication Law
- MMC 4300 International Media
- PUR 4000 Public Relations
- RTV 3000 Dev & Struct of Elect Media & New Tech
- RTV 3200 Prod Fund & Aesth of Elect Media
- RTV 4403 Electronic Media, Technology and Society

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.

INTERNATIONAL STUDIES: Minor

College of Arts and Humanities
Middle Eastern Studies Program, CNH 411J
Husain Kassim, 407-823-2803

The Middle Eastern Studies minor is designed to complement a student’s major area of study. The minor requires a core of Middle Eastern Studies courses as well as a selection of directed electives.

Credit Hour Requirements 21 hrs

Required Courses (9 hrs)

- CPO 3403 Politics of the Middle East 3 hrs
- HUM 3419 Islamic Thought and Culture 3 hrs
- ASH 3223 The Modern Middle East 3 hrs

Restricted Electives (12 hrs)

Select from the following:

- ARA 2200 Intermediate Arabic Language and Civilization I
- ASH 3222 Islam and Its Empires
- ASH 5227 The Arab-Israeli Conflict
- CPO 4710 Women in Comparative Politics
- HBR 2200 Intermediate Modern Hebrew I
- HUM 3553 Moses, Jesus and Muhammad
- JST 3401 The Jewish People I
- JST 3402 The Jewish People II
- JST 3820 Modern Hebrew Culture
- PHH 3200 Medieval Philosophy
- REL 2300 World Religions

Additional courses may be used only with prior permission of the program director. Although not required, students are strongly encouraged to complete at least one year of Arabic (ARA 1120, 1121) and/or Hebrew (HBR 1120, 1121).

Other Requirements

- Students who are also minoring or completing a certificate in Judaic Studies may not have more than 3 credits that are counted in both programs.
- At least 15 hours used to satisfy this minor must be at the upper division.
- A grade of “C” or above (2.0) is required in each course for the minor.
Minors

- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

MILITARY SCIENCE: Minor
College of Engineering and Computer Science
Army ROTC, BLDG 501
LTC Allison R. Reinwaid, 407-823-2430

Credit Hour Requirements 19 hours
Required Courses
- MSL 3201C Leadership and Problem Solving 4 hrs
- MSL 3202C Leadership and Ethics 4 hrs
- MSL 4301C Leadership and Management 4 hrs
- MSL 4302C Officership 4 hrs

Select one of the following: (3 hrs)
- AMH 3541 U.S. Military History to 1900
- AMH 3547 U.S. Military History since 1900

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

MOLeCULAR BIOLOGY AND MiCROBIology: Minor
Burnett College of Biomedical Sciences
Department of Molecular Biology and Microbiology
HPA2 335, 407-823-5932
Chair: P.E. Kolattukudy

Credit Hour Requirements 30 hrs
Required Courses
- BSC 2000C Biology I 4 hrs
- MCB 3020C General Microbiology 5 hrs
- PCB 3233 Immunology or 4 hrs
- PCB 4239 Molecular Immunology 3 hrs
- PCB 3233L Immunology Laboratory 1 hr
- PCB 3522 Molecular Biology I 3 hrs
- PCB 4524 Molecular Biology II 3 hrs
- BSC 3403C Quantitative Biological Methods 4 hrs

Restricted Electives (7 hrs)
- At least two courses from the Restricted Elective category of the baccalaureate curriculum.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

MUSIC: Minor
College of Arts and Humanities
Department of Music, CNH 205
http://www.cas.ucf.edu/music/moore
music@ucf.edu
TBA, 407-823-2869

Credit Hour Requirements 18 hrs
Required Courses
- MUT 1111 Music Theory IA 2 hrs
- MUT 1112 Music Theory IB 2 hrs
- MUT 1241 Ear Training and Sight Singing IA 1 hr
- MUT 1242 Ear Training and Sight Singing IB 1 hr
- MUL 2010 Enjoyment of Music 3 hrs

Restricted Electives (9 hrs)
- Restricted electives must be taken from the Department of Music at UCF and must include 3 hours minimum at the 3000 or 4000 level. Secondary lessons can be used for electives contingent on a successful audition and approval of the department chair.
- MUC, MUN, MUE, MVx, MUH, MUL, MUS, MUT (any course) 6 hrs
  (on the same performance medium)
- MUC, MUN, MUE, MVx, MUH, MUL, MUS, MUT 3 hrs
  (3000 or 4000 level course)

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

NORTHERN AMERICAN INDIAN STUDIES: Minor
College of Sciences
Department of Anthropology, PH 403
http://www.cas.ucf.edu/anthro
E-mail: anthropology@ucf.edu
Contact: Rosalyn Howard, 407-823-2227

The North American Indian Studies minor will develop a more sophisticated understanding and appreciation of the history and culture of the North American Indians. The minor is especially appropriate for all UCF undergraduates.

Minor Requirements:
- Interview with the North American Indian Studies Director.
- Consultation with the Director to develop a program of study and plan course selections.
- Final approval of the minor is contingent upon completion of a thesis paper under the guidance of a faculty research director.

Credit Hour Requirements (18 hrs)
Required Courses
- ANT 4910 Research (3 hrs)

Restricted Electives (15 hrs)
- Courses used in the minor must be taken in at least two departments. Select from the following list:
  - ANT 3245 Religions of the Amer Indians
  - ANT 3313 Indians of the N Amer High Plains
  - ANT 3311 Indians of the SE United States
  - ANT 3198 Florida Archaeology
  - ANT 4906 Independent Study
  - ANT 3314 Indians of the NE Woodlands
  - ANT 3312 Ethnology of N Amer Indians
  - ANT 3316 Black/Seminoe Relations
  - ANT 43230 Indians of the Southwest
  - ANT 3318 Indians of the Northwest Coast
  - AMH 3441 History of the Frontier: E America
  - AMH 4110 Colonial America
  - AMH 4112 The Atlantic World
  - AML 3640 Native American Literature
  - ANT 4144 Prehistory of North America
  - ANT 4153 North American Archaeology
  - PHH 3701 North American Philosophy
  - SYD 3752 Modern Law in Indian Country
  - SYD 3751 N Amer Indian Women Today

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.

ORGANIZATIONAL COMMUNICATION: Minor
College of Sciences
Nicholson School of Communication, COM 258
407-823-2852
http://www.cas.ucf.edu/communication
E-mail: communication@ucf.edu
Contact: Susan Jefferson

Not open to Interpersonal/Organizational Communication majors.

Credit Hour Requirements 21 hrs
Required Courses
- COM 3120 Organizational Communication 3 hrs
- COM 3311 Communication Research Methods 3 hrs
PHILOSOPHY: Minor
College of Arts and Humanities
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
Jennifer Mundale, 407-823-2273

The Philosophy minor is intended to provide a limited, yet substantive, introduction to philosophical themes related to knowledge, responsibility, and society. Students, in consultation with a departmental advisor, will select courses in accordance with the distributions listed below.

Credit Hour Requirements 21 hours
Core Requirements (15 hrs)
Select one course from each of the following groups:

Reasoning (3 hrs)
- PHI 2011 Philosophical Reasoning
- PHI 2101 Critical Thinking
- PHI 2108 Formal Logic I
- PHI 2647 Logic and Ethics
- PHI 3131 Formal Logic II

History of Philosophy (3 hrs)
- PHI 3100 Ancient Philosophy
- PHI 3200 Medieval Philosophy
- PHI 3460 Modern Western Philosophy
- PHI 3600 Contemporary Philosophy

Values and Society (3 hrs)
- PHI 3670 Ethical Theory
- PHI 3626 Advanced Ethics in Science and Technology
- PHI 3401 Philosophy of Law
- PHI 3800 Aesthetics
- PHI 3123 Feminist Theories
- PHI 3638 Ethical Issues in the 21st Century
- PHI 3625 Virtual Ethics
- PHI 4633 Ethics and Biological Science
- PHI 3100 Freedom and Justice
- PHI 3640 Environmental Ethics
- PHI 4031 Environmental Philosophy
- PHI 3701 Native American Philosophy
- PHI 3805 Contemporary Aesthetics

Being and Knowing (3 hrs)
- PHI 4500 Metaphysics
- PHI 4341 Ways of Knowing
- PHI 4300 Theories of Knowledge
- PHI 3700 Philosophy of Religion
- PHI 4400 Philosophy of Science
- PHI 3320 Philosophy of Mind
- PHI 3451 Philosophy of Psychology
- PHI 4420 Philosophy of Social Science
- PHI 3323 Minds and Machines
- PHP 4782 Phenomenology
- PHI 4221 Philosophy of Language

Topics in Philosophy (3 hrs)
- PHI 4901 Philosophy in the News
- PHI 3683 Philosophy of Friendship
- PHI 4321 Philosophies of Embody
- PHI 3648 Ethical Issues of the Human Genome Project
- PHI 3022 Sexuality, Gender and Philosophy
- PHI 3033 Philosophy, Religion and the Environment
- PHI 4804 Critical Theory
- PHP 3783 Modernity as a Philosophical Problem
- PHI 3750 Problem of Evil
- PHI 3720 Faith and Reason
- PHI 3803 Philosophy and Creativity

PHI 3941 Philosophy Practicum
REL 3111 Religion and Philosophy through Film
PHP 3785 Existentialism

Upper Division Restricted Electives (6 hrs)
Must consult an advisor for approved courses in this area.
Note: Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by departmental advisor.

Other Requirements
- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior approval by the Chair.
- Any substitutions must be approved by the department prior to being taken.

PHILOSOPHY, RELIGION AND POPULAR CULTURE: Minor
College of Arts and Humanities
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
Advisor (UCFOrlando Campus) Bruce Janz, 407-823-2273
Fax: 407-823-6658;
Advisor (Cocoa Campus) Shelley Park, 321-433-7919

The Philosophy, Religion, and Popular Culture minor examines popular culture through the critical lenses of philosophy and religious studies. Students interested in the Liberal Studies major may find this minor particularly helpful. In consultation with a departmental advisor, students will select courses in accordance with the distributions listed below.

Credit hour requirements 21 hours

Theoretical Foundations (6 hrs)
- PHI 3684 Ways of Living
- PHI 4341 Ways of Knowing

Philosophy (3 hrs)
Select at least one course:
- PHI 2101 Critical Thinking
- PHI 3670 Ethical Theory
- PHI 3700 Philosophy of Religion
- PHI 3800 Aesthetics
- PHI 3100 Freedom and Justice
- PHI 3720 Faith and Reason
- PHP 3786 Existentialism
- PHI 4804 Critical Theory
- PHI 4300 Theories of Knowledge

Religion (3 hrs)
Select at least one course:
- CLA 3851 Comparative Mythology
- HUM 3552 Christian Thought
- HUM 3553 Moses, Jesus, and Mohammed
- HUM 3417 Hindu Thought and Culture
- HUM 3419 Islamic Thought and Culture
- HUM 4303 The Spiritual Ideal
- HUM 4554 Religious Quest and Human Dilemma
- PHI 3750 The Problem of Evil

Popular Culture Studies (9 hrs)
A. Contemporary Media
Select at least one course:
- HUM 3320 Contemporary Multicultural Studies
- HUM 4556 Religion and the Arts
- HUM 4330 Performance Theory
- PHI 3626 Virtual Ethics
- PHI 4931 Philosophy in the News
- POS 3235 Mass Media and Politics
- POS 3268 Politics in Film
- REL 3115 Religion, Spirituality and Popular Music
Minors

REL 3111 Religion and Philosophy through Film
SYP 3630 Sociology of Popular Culture

B. Contemporary Forms of Life
Select at least one course:
ANT 3302 Sex, Gender and Culture
HUM 3252 Contemporary Humanities
PHI 3022 Sex, Gender and Philosophy
PHI 3629 Family Values
PHI 3033 Philosophy, Religion and the Environment
PHM 3401 Philosophy of Law
PHI 3638 Ethical Issues in the 21st Century
PHI 3683 Philosophy of Friendship
PHM 3123 Feminist Theories
PHI 4321 Philosophies of Embodiment: Mind/Body/Self
REL 3131 Religion in America
REL 3162 Healing Culture, Art, and Praxis

Other Requirements
- A “C” (2.0) grade or better is required in all courses used to satisfy the minor.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

PHYSICS: Minor
College of Sciences
Department of Physics, MAP 310
http://www.physics.ucf.edu
physics@ucf.edu
Ralph Llewellyn, 407-823-2325

Credit Hour Requirements 20 hrs
Required Courses (18 hrs)
PHY 2049 Physics for Eng. & Sci I 3 hrs
PHY 2049L Physics Laboratory for Eng. & Sci I 1 hr
PHY 2048L Physics Laboratory for Eng. & Sci II 1 hr
PHY 3101 Physics for Eng. & Sci III 3 hrs

Restricted Upper Division Electives (9 hrs)
Selected from upper-level Physics lecture or laboratory courses appropriate for majors.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.

POLITICAL SCIENCE: Minor
College of Sciences
Department of Political Science, CNH 415
http://www.cas.ucf.edu/politicalscience
E-mail: politics@ucf.edu
Contact: Roger Handberg, 407-823-2608

Credit Hour Requirements 18 hrs
Required Course
POS 2041 American National Government 3 hrs

Restricted Upper Division Electives (15 hrs)
- Five upper division Political Science courses (selected with the aid of a departmental advisor)
- Only three hours of POS 4941 (Internship) may be used.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.

PSYCHOLOGY: Minor
College of Sciences
Psychology Department, PH 302
http://www.psych.ucf.edu/
E-mail: psychology@ucf.edu

Contact: Psychology Advising Center, PH 305G, 407-823-2219
The Psychology Department minor permits emphasis of several areas: Clinical Psychology, Human Factors Psychology, and Industrial/Organizational Psychology. When designing a minor, select courses which strengthen graduate school preparation and/or employment potential. Emphasis areas will not appear on the transcript.

Credit Hour Requirements 22 hrs
Required Courses (10 hrs)
PSY 2012 General Psychology 3 hrs
STA 2014C Principles of Statistics or STA 2023 Statistical Methods I 3 hrs
PSY 3213C Research Methods in Psychology 4 hrs

Restricted Electives (12 hrs) of Psychology courses

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Maintain a minimum GPA of “C” (2.0) in the minor.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

PUBLIC ADMINISTRATION: Minor
College of Health and Public Affairs
Department of Public Administration, HPA2 238
Mr. Robert Morin, 407-823-2604
E-mail: morinr@mail.ucf.edu

Credit Hour Requirements 18 hrs
Required Courses (18 hrs)
PAD 3003 Public Admin in American Society 3 hrs
PAD 4034 The Administration of Public Policy 3 hrs
PAD 4204 Fiscal Management 3 hrs
PAD 4414 Public Personnel Administration 3 hrs
PAD 4720 Survey Research in Public Admin 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Students must earn at least a 2.0 (“C”) to earn credit.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor without prior departmental permission.
REAL ESTATE: Minor  
(Open to Business and Non-Business Students)  
College of Business Administration  
Department of Finance, BA 409  
http://www.bus.ucf.edu/finance

Credit Hour Requirements 18 hrs
Prerequisite Courses
ACG 2021 Principles of Financial Accounting 3 hrs
ACG 2071 Principles of Managerial Accounting 3 hrs
ECO 2013 Principles of Macroeconomics 3 hrs
ECO 2023 Principles of Microeconomics 3 hrs

Required Courses (12 hrs)
FIN 2104 Personal Finance and Investments 3 hrs
FIN 3403 Business Finance 3 hrs
REE 3043 Fundamentals of Real Estate 3 hrs
REE 3433 Real Estate Law 3 hrs

Electives (6 hrs)
REE 4103 Real Estate Appraisal and Valuation 3 hrs
REE 4204 Residential Real Estate Finance 3 hrs
REE 4303 Real Estate Investment Analysis 3 hrs
REE 4732 Real Estate Development 3 hrs
REE 44xx Commercial Real Estate Finance 3 hrs

Other Requirements
- A student minoring in real estate must earn a grade of “C” (2.0) or higher in each course applied toward the requirements for the minor. Students must have an overall GPA of 2.0 or higher in all courses attempted in the minor.
- Grades below “C” (2.0) are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or independent study credit cannot be used toward the minor.
- A maximum of 6 hours of required or elective coursework (from Required Courses and Electives above) can count toward another major or minor degree program.

SECURE COMPUTING AND NETWORKS (SCAN):  
Interdisciplinary Minor  
College of Engineering and Computer Science  
CECS Academic Affairs, ENGR 107  
Kim Small, 407-823-2455; ksmall@mail.ucf.edu  
http://www.cecs.ucf.edu

Credit Hour Requirements 18 hrs
Required Courses (9 hrs)
CIS 3360 Security in Computing 3 hrs
CIS 3362 Cryptography and Information Security 3 hrs

Select one:
CDA 4506 Network Labs 3 hrs
CDA 4527 Computer Communications Network 3 hrs
CET 4483 Local Area Networks 3 hrs
EEL 4781 Computer Networks 3 hrs

Elective Courses (9 hrs)
Select any three courses from the following list:
Network Security:
CET 4663 Computer and Network Security, or 3 hrs
CIS 4363 Network Security and Privacy 3 hrs
CET 4882 Network Defense Strategies 3 hrs
Security Management and Administration:
CET 4XXX Practice of Information Security 3 hrs
CET 4884 Security Methods & Practices 3 hrs
CET 4885 Investigative Digital Technology 3 hrs
Secure Software:
CIS 4361 Secure Operating Systems and Administration 3 hrs
CIS 4615 Secure Software Development and Assurance 3 hrs
COP 4600 Operating Systems 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all the courses used to satisfy the minor.
- Pre-requisites to the minor include Programming in C (COP 3223, EGN 3211, CET 2364, or an equivalent) and Math for Calculus (MAC 2147), or equivalent
- No credit by exam (TSD, Military credit) may be used
- Internship, Co-op, or Independent Study credit cannot be used toward the minor

SOCIAL SCIENCES - INTERDISCIPLINARY: Minor  
Office of Undergraduate Studies  
Office of Liberal & Interdisciplinary Studies  
http://liberalstudies.info  
E-mail: ls@mail.ucf.edu

Credit Hour Requirements 21-22 hrs
Required Courses (3-4 hrs)
One method course, selected from the three immediately below
POS 3703 Scope and Methods of Political Science 3 hrs
PSY 3213 Research Methods in Psychology 3 hrs
SYA 4300 Research Methods 3 hrs

Restricted Electives (18 hrs)
Select a minimum of six hours in each of three different disciplines below. The courses below cannot overlap with your major discipline.
Communication
Economics
Political Science
Public Administration
Psychology
Sociology & Anthropology

Other Requirements
- Students must earn a grade “C” or above (2.0) in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF.
- At least 18 hours must be upper division classes
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

RELIGIOUS STUDIES: Minor  
College of Arts and Humanities  
Philosophy Department, CNH 411  
http://www.cas.ucf.edu/philosophy
Shawn Gallagher, 407-823-2273
The religious studies minor provides a limited yet coherent range of courses which introduce the student to a range of religious institutions and ideas. Courses are drawn from the departments of Anthropology & Sociology, Art, English, History, Judaic Studies, Philosophy, Political Science, and Psychology, and are to be selected in consultation with the Religious Studies advisor.

Credit Hour Requirements 21 hrs
Required Courses (3 hrs)
REL 2300 World Religions

Restrict Electives (18 hrs)
See department website for approved list of courses

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior approval by the Director.

No credit by exam (TSD, Military credit) may be used.

At least 12 hours used in the minor must be earned at UCF.

Grades below “C” (2.0) in lower level courses are not accepted.
Minors

SOCIOLGY: Minor
College of Sciences
Department of Sociology & Anthropology, PH 403
http://www.cas.ucf.edu/soc_anthro
sociology@ucf.edu
Contact: Jay Corzine, 407-823-2227
Credit Hour Requirements 18 hrs
Required Courses (3 hrs)
SYG 2000 General Sociology
Restricted Electives (3 hrs)
2000-4000 level Sociology courses
Restricted Upper Division Electives (12 hrs)
3000-4000 level Sociology courses
Other Requirements
■ Earn a minimum GPA of at least 2.0 in all courses used to satisfy
the minor.
■ Grades below “C” (2.0) in lower level courses are not accepted.
■ At least 15 hours used in the minor must be earned at UCF within
the department.
■ No credit by exam (TSD, Military credit) may be used.
■ Co-op or internship credit cannot be used toward the minor.
■ No more than 3 hours of Independent Study credit can be used toward the minor.

SPACE STUDIES: Minor
College of Engineering and Computer Science
Department of Mechanical, Materials and Aerospace
Engineering, ENGR 307
R.H. Chen, 407-823-2416
Fax 407-823-0208
In response to the needs of the Central Florida space community,
UCF offers a multidisciplinary Minor in Space Studies. It is intended
for students of all disciplines and includes courses from aerospace
engineering, electrical engineering, environmental engineering,
instructional programs, physics, physical education, and political
science.
Credit Hour Requirements 21 hrs
Required Courses (9 hrs)
AST 2002 Astronomy
EGN 2815C ST: Space Science and Technology
GEO 4035C Remote Sensing of the Environment
Restricted Electives (12 hrs)
EAS 3010 Fundamentals of Aerospace Flight
EAS 3101 Fundamentals of Aerodynamics
EAS 3530 Space Systems Concepts
EAS 4505 Orbital Mechanics
EGN 4830 Telecommunications
GEO 1200 Physical Geography
GEO 2370 Resources Geography
INR 4404 Space Law
PUP 4510 Space Policy
PET 4351C Applied Exercise and Human Physiol
PUP 4508 Space Studies
PUP 4510 Space Policy
SCF 5825 Space Science for Educators
Other Requirements
■ Formal declaration of the minor should occur before nine credit
hours have been completed.
■ A minimum GPA of 2.0 is required in all courses used to satisfy
the minor.
■ Grades less than “C-” (1.75) are not accepted.
■ At least 15 hours used in the minor must be earned at UCF.
■ No credit by exam (TSD, Military credit) may be used.
■ Internship or Independent Study credit cannot be used toward
the minor.

SPANISH: Minor
College of Arts and Humanities
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang/
moderlanguage@ucf.edu
P. Giordano, 407-823-2472
Credit Hour Requirements 18 hrs
Restricted Electives
Select six upper division courses in Spanish, including the 3000-level advanced grammar (SPN 3300), advanced oral communication (SPN 3760), and composition courses (SPN 3420).
■ A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.
Other Requirements
■ A minimum grade of “C” (2.0) is required in all courses used to satisfy the minor.
■ At least 15 hours used in the minor must be earned at UCF within the department.
■ No credit by exam (TSD, Military credit) may be used.
■ Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

SPORT BUSINESS MANAGEMENT: Minor
(*Business Majors, Business Undecided, and Business Pending only)
College of Business Administration
DeVos Sports Business Management, BA2 205
F. Polite, 407-823-1158
e-mail: fpolite@bus.ucf.edu
Completion of Common Program Pre-requisites and Admission to a major within the College of Business
Administration
Credit Hour Requirements 18 Hrs
Required Courses 9 Hrs
SPB 3003 Introduction to Sport Business Management 3 Hrs
SPB 3003 Diversity and Social Issues in Sport Business Management 3 Hrs
SPB 3503 Ethics in Sport Business 3 Hrs
Restricted Electives 9 Hours
SPB 4304 Event and Facility Management 3 Hrs
SPB 4404 Sport Business Law 3 Hrs
SPB 4804 Sport Business and Media 3 Hrs
MAR 4714 Sports Marketing 3 Hrs
MAR 3023 Marketing 3 Hrs
Other Requirements:
■ A minimum GPA of 2.5 is required in all courses to satisfy the minor.
■ Grades below “B” (3.0) or “S” grades from other institutions are not accepted.
■ At least 9 hours used in the minor must be earned at UCF within the DeVos Sport Business Management Program.
■ No credit by exam (CLEP, TSD, Military credit) may be used.
■ Internship, Independent Study, or Directed Research credit hours cannot count toward the minor.
■ Students can take any minor courses if they are a Business major. If they are Business Undecided or Business Pending, they can take the three required courses (*Business Majors, Business Undecided, or Business Pending only) and then take the three upper division courses as minors.

STATISTICS: Minor
College of Arts and Sciences
Statistics and Actuarial Science Department, CC II 212
http://www.cas.ucf.edu/statistics
statistics@ucf.edu
Nizam Uddin, 407-823-5525
Credit Hour Requirements 18 hrs
Required Courses (9 hrs)
Select one course
STA 2023 Statistical Methods I or
STA 3032 Probability and Statistics for Engineers
STA 4163 Statistical Methods II 3 hrs
STA 4164 Statistical Methods III 3 hrs
Restricted Upper Division Electives (9 hrs)
Select from upper division STA prefix courses taught within the Statistics and Actuarial Science Department.
(STA 3032 cannot be used)
Other Requirements
■ A minimum grade of “C” (2.0) is required in all courses used to satisfy the minor.
Minors

- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

TECHNICAL EDUCATION and INDUSTRY TRAINING: Minor
College of Education
Department of Teaching and Learning Principles, ED 209
http://reach.ucf.edu/~technicaled/
Dr. Jo Ann M. Whiteman, ED 122-T, 386-506-4041
Email: jjwhitema@mail.ucf.edu
The minor in Technical Education and Industry Training provides a limited, but substantive experience in the area of technical education and industry training of adults. The minor is not intended for students admitted to a degree program in the College of Education and does not lead to teacher certification or admission to the College of Education. All courses are offered solely using the Web.

Credit Hour Requirements 18 hrs
Entrance requirements Junior standing
Required courses 18 hrs
ADE 4382 Teaching Adult Learners 3 hr
EVT 4598 Advanced Teaching Techniques 3 hr
EVT 3062 Professional role of the Vocational Teacher 3 hr
EVT 3367 Evaluation in Vocational Education 3 hr
EVT 4169 Curriculum Development for Industry Training 3 hr
EVT 4065 Principles and Practices in Vocational Education 3 hr

Other requirements
- A minimum of 4 courses of the 6 required must be completed at UCF within the Program of courses listed above.
- A grade of "C" (2.0) or better must be achieved in each course used for this Minor.
- Internship, Co-op, or Independent Study credit cannot be used toward this Minor.
- No Military credit can be used toward this Minor.
- Completion of this Minor does not complete requirements for certification as a Vocational Education teacher nor does it constitute admission to the College of Education.

TECHNOLOGY AND SOCIETY: Minor
College of Engineering and Computer Science
Dr. Ronald Eaglin, ENGR 207
http://www.eng.ucf.edu
Department of Public Administration, HPA2 238
Mr. Robert Morin, 407-823-1190
Email: morin@mail.ucf.edu
Fax: 407-823-5651

The College of Engineering offers a minor in Technology and Society to interested UCF students. The minor is intended for students not enrolled in the College of Engineering, although students in the College may also be awarded the minor.

Credit Hour Requirements 18 hrs
Suggested Prerequisite Courses
MAC 1105 College Algebra
GEP Cultural and Historical Foundations
Restrict Upper Division Elective
A minimum of nine hours must be taken from the CET/EST/ETI prefix courses listed below.
CET 3010 Introduction to Information Technology
EST 3222 Introduction to Photonics
ETI 3671 Technical Economic Analysis
ETI 4205 Applied Logistics
ETI 4635 Technical Administration
ETI 4700 Occupational Safety
ETI 4836 Space Systems Technology
GEO 2370 Resources Geography
LIT 3313 Science Fiction
LIT 4433 Survey of Technical and Scientific Literature
PUP 3203 Environmental Politics
PUP 4503 Government and Science
PUP 4510 Space Policy

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C-" (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.
- Prerequisites for any course must be met prior to enrollment. Some courses may have prerequisites not required for the student's major/minor.

THEATRE - GENERAL: Minor
College of Arts and Humanities
Theatre Department, UTC 180
http://www.theatre.ucf.edu
theatre@ucf.edu
Kristina Tollefson, 407-823-2862

Credit Hour Requirements 27 hrs
Entrance Requirement
A successful interview
Required Courses (27 hrs)
Note: The number assigned many courses will change.
Use the Prefix and title to determine the proper course.
THE 2000 Theatre Survey 3 hrs
THE 2000* Theatre Participation - Management I 1 hr
THE 2304 Script Analysis 3 hrs
TPA 2290* Theatre Participation - Production I 1 hr
TPP 2190* Theatre Participation - Performance I 1 hr
THE 3110 Theatre History I 3 hrs
THE 3111 Theatre History II 3 hrs
THE 3305 Dramatic Literature I 3 hrs
THE 2271 Performance Studies 3 hrs
THE 3306 Dramatic Literature II 3 hrs
TPA 2231 Technical Theatre Production 2 hrs
TPA 2201 Technical Theatre Production Lab 1 hr

Other Requirements
- Participation on a minimum of one departmental production during both the Fall and Spring terms for four semesters.
- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- At least 18 hours used in the minor, including those marked by an asterisk, must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

URBAN AND REGIONAL PLANNING: Minor
College of Health and Public Affairs
Department of Public Administration, HPA2 238
Mr. Robert Morin, 407-823-1190
Email: morin@mail.ucf.edu
Fax: 407-823-5651

Urban and regional planning is one area of public administration that has seen considerable growth over the past few years. Areas like Central Florida need many professionals who assist government, communities, and private sector planning organizations to provide growth that is environmentally feasible, aesthetically attractive, socially and politically acceptable, technically sustainable, and economically dynamic. This minor looks at all of these diverse and competing interests, and provides the basics for those interested in employment in this area of great demand. Students who pursue a minor in urban and regional planning may find positions as a city planner, urban designer, planning specialist, environmental program manager, or economic development specialist, among others.

Credit Hour Requirements 21 hrs
Required Courses (21 hrs)
PAD 3330 Urban and Regional Planning 3 hrs
PAD 4712 Information Systems for Public Managers and Planners 3 hrs
PAD 4331 Land Use and Planning 3 hrs
PAD 4334 Urban Design 3 hrs
PAD 4253 Community and Economic Development 3 hrs
PAD 4351 Issues in Environmental Program Management 3 hrs
**WOMEN’S STUDIES: Minor**

**College of Arts and Humanities**

http://www.cas.ucf.edu/womensstudies

L. M. Logan, 407-823-6502, Email: womenst@ucf.edu

The minor in Women’s Studies provides students with an opportunity to learn about women’s historical and contemporary roles, gain a working knowledge of interdisciplinary feminist scholarship, and reflect critically on their life experiences as shaped by gender and other forms of diversity. Courses are drawn from the departments of Art, Communications, Criminal Justice, English, Exceptional and Physical Education, Health Professions and Physical Therapy, History, Philosophy, Political Science, Psychology, Nursing, Social Work, Sociology and Anthropology, and Theatre.

**Credit Hour Requirements**

<table>
<thead>
<tr>
<th>Required Core Courses</th>
<th>18 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>WST 3015</td>
<td>Introduction to Women’s Studies</td>
</tr>
<tr>
<td>Select one course:</td>
<td></td>
</tr>
<tr>
<td>PHM 3123</td>
<td>Feminist Theories</td>
</tr>
<tr>
<td>LIT 4554</td>
<td>Advanced Feminist Theories</td>
</tr>
<tr>
<td>WST 3961</td>
<td>Third Wave Feminisms</td>
</tr>
</tbody>
</table>

**Upper Division Electives**

(12 hrs)*

Student must select 2 courses from the 4 areas below:

**Women's History**

- AMH 3561 Women in American History I
- AMH 3562 Women in American History II
- ASH 4304 Women in China
- EIUH 4610 Women in European Society

**Representations of Women**

- AML 3283 Contemporary American Women’s Fiction
- ARH 4892 Women in Art
- COM 4014 Gender Issues in Communication
- FIL 3309 Women in Film
- LIT 3393 Women in Literature
- PHI 3022 Sexuality, Gender & Philosophy
- WST 3460 Womanist Studies

**Women’s Wellness**

- MUR 4036 Women’s Health Issues
- PEM 2405 Self Defense for Women and Men
- SOP 2772 Sexual Behavior
- SOP 3742 Psychology of Women

**Women and Social Policy**

- ANT 3302 Sex, Gender and Culture
- ANT 4308 Women and Gender Issues in Lat Am
- CCJ 4670 Women and Crime
- CCJ 4681 Southeastern Violence and Justice System
- CPD 4170 Women and Comparative Politics
- INR 4085 Women, Gender, and Globalization
- PUP 4323 Women and Public Policy
- SYD 3800 Sex Roles in Modern Society
- SYD 4610 Women in Contemporary Sociology
- SYD 4100 Family Trends
- WST 3500 Gender Issues in Community Activism

* Students may be allowed to take one course from a list of restricted courses.

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades of “D+” or below will not be counted toward the Women’s Studies Minor.
- At least 12 hours used in the minor must be earned at UCF.
E. Media and Communication

- FIL 3510 World Cinema Traditions
- FIL 3514 International Cinema
- FIL 4564 Africana Cinema
- COM 4461 Intercultural Communication
- LIN 4643 Cross Cultural Communication
- THE 3312 Global Theater

F. World Independent Specialization

Any five upper division courses from the approved list of courses in any thematic concentration may be selected for this option with approval of the Liberal Studies office.

Foreign Language Proficiency Requirement (0-8 hrs)

Students must demonstrate the equivalent of one year of successful college-level study in a foreign language. They can do this either by successful completion of the appropriate college-level course(s) or by examination.

ADDICTIONS: Certificate

College of Health and Public Affairs
School of Social Work, HPA 1 204

BSW Coordinator, 407-823-2114
socialwk@mail.ucf.edu

This certificate is open only to students in the undergraduate social work program (BSW). Addiction courses may be taken as electives by non-majors and be applied to the state certification. The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers. Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions. The certificate program will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida but not the certificate program.

Admission Requirement:

This Certificate is only open to students in the undergraduate social work program (BSW). Students not in the social work program but enrolled in their junior or senior year at UCF may take the addictions courses to be applied toward their state certification through the Certification Board for Addiction Professionals of Florida.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements:

12 hrs

Required Courses:

- SOW 4706 Interventions with Substance Abusers 3 hrs
- SOW 3352 Practice II: Interpersonal Skills 3 hrs
- SOW 4341 Micro-Level Roles and Interventions 3 hrs

Restricted Electives:

Select from one of the following:

- SOW 4705 Prevention and Treatment of Adolescent Substance Abuse 3 hrs
- SOW 4906 Independent Study in Addictions – (i.e. Women in Treatment, Drug Control Policy, etc.; Can be taught by any faculty teaching one of the above courses) 3 hrs
- CCJ 4651 Drugs and Crime 3 hrs

Other Requirements:

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit), may be used.
- Independent Study cannot be used toward the minor.

AMERICAN SIGN LANGUAGE (ASL): Certificate

College of Health and Public Affairs
Department of Communication Disorders, HPA-2, Suite 101

http://www.cohpa.ucf.edu/comdis

Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798
Email: jchwartz@mail.ucf.edu

This certificate is designed to provide students with the conversation- al competency in ASL to communicate with deaf and hard of hearing individuals who use ASL as their primary mode of communication. In addition, students completing the certificate program would have the prerequisite skills to seek further instruction in Interpreter Education. More specifically, the certificate program is designed for undergraduate students majoring in Communication Disorders, general and special education, psychology, theater, the health professions, and other disciplines; students at area community colleges; professionals working in Central Florida; and, the general public who wish to enhance their ability to communicate with the deaf community and to enhance their employment potential.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements

16 hrs

Required Courses:

- SPA 4612 Introduction to American Sign Language 4 hrs
- SPA 4613 Intermediate American Sign Language 4 hrs
- SPA 4614 American Sign Language III 4 hrs
- SPA 4615 American Sign Language IV 4 hrs

Other Requirements:

- Students select three additional courses from the following: (a maximum of two courses in their College and at least one course must be outside their college).

College of Health and Public Affairs

- HSA 4322 Long Term Administration 3 hrs
- HSA 4564 Health Care Needs of the Elderly 3 hrs
- NUR 4296 Gerontologic Nursing 3 hrs
- SOW 4845 Social Services for the Elderly 3 hrs

Other Colleges:

- DEP 3464 Psychology of Aging 3 hrs
- SYP 4730 Sociology of Aging 3 hrs
- GEY 3630 Women and Aging 3 hrs

CERTIFICATES

AGING STUDIES: Certificate

College of Health and Public Affairs
School of Social Work, HPA 1 204

BSW Coordinator, HPA 1 204, 407-823-2114

In recognition of the special needs of the elderly citizens of Central Florida, the University offers a fifteen-hour interdisciplinary program leading to a Certificate in Aging Studies. The certificate is open to all students in any major. The program may be a particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education, or art education. All students must contact the coordinator for planning their internship. Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements

15 hrs

Required Course

- GEY 3001 Gerontology: Interdisciplinary Overview 3 hrs

Required Internship (Select one)

- SOW 4610 Field Education 9 hrs
- HSA 4941 Internship 3 hrs
- PSY 3661 Internship 3 hrs
- SYP 4941 Internship 3 hrs

Electives

- Students select three additional courses from the following: (a maximum of two courses in their College and at least one course must be outside their college).

College of Health and Public Affairs

- HSA 4220 Long Term Care 3 hrs
- HSA 3222 Long Term Administration 3 hrs
- HSC 4564 Health Care Needs of the Elderly 3 hrs
- NUR 4296 Gerontologic Nursing 3 hrs
- PLA 4932 Legal Issues of the Elderly 3 hrs
- SOW 4645 Social Services for the Elderly 3 hrs

Other Colleges:

- DEP 3464 Psychology of Aging 3 hrs
- SYP 4730 Sociology of Aging 3 hrs
- GEY 3630 Women and Aging 3 hrs

SYP 3930
- LIT 3930 Literature of Aging 3 hrs
- SYP 4734 Minority Aging 3 hrs

AMERICAN SIGN LANGUAGE (ASL): Certificate

College of Health and Public Affairs
Department of Communication Disorders, HPA-2, Suite 101

http://www.cohpa.ucf.edu/comdis

Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798
Email: jchwartz@mail.ucf.edu

This certificate is designed to provide students with the conversation- al competency in ASL to communicate with deaf and hard of hearing individuals who use ASL as their primary mode of communication. In addition, students completing the certificate program would have the prerequisite skills to seek further instruction in Interpreter Education. More specifically, the certificate program is designed for undergraduate students majoring in Communication Disorders, general and special education, psychology, theater, the health professions, and other disciplines; students at area community colleges; professionals working in Central Florida; and, the general public who wish to enhance their ability to communicate with the deaf community and to enhance their employment potential.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements

16 hrs

Required Courses:

- SPA 4612 Introduction to American Sign Language 4 hrs
- SPA 4613 Intermediate American Sign Language 4 hrs
- SPA 4614 American Sign Language III 4 hrs
- SPA 4615 American Sign Language IV 4 hrs
Certificates

Other Requirements
- A minimum grade of "C-" (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the certificate.
- At least 8 hours used in the program must be earned at UCF with the Department of Communication Disorders.
- No credit by exam (TSD, Military credit) Internship or Independent Study credit may be used toward the certificate.

BEHAVIORAL FORENSICS: Certificate
College of Sciences
Psychology Department, PH 302
http://www.psych.ucf.edu/
E-mail: kmottare@ucf.edu
Contact: K. Mottarella; 321-433-7892
Credit Hour Requirements: 27 hrs
Prerequisite Courses (6 hrs)
PSY 2021 General Psychology or GEP 3 hrs
SYG 2000 General Sociology 3 hrs
PPE 3003 Personality Theories 3 hrs
SYP 3510 Soci of Deviant Behavior 3 hrs
Required Courses (12 hrs)
CLP 4390 Forensic Psychology 3 hrs
SOP 3751 Legal Aspects of Psych 3 hrs
SYP 3520 Criminology 3 hrs
Select one course:
SYP 3540 Sociology of Law 3 hrs
SYD 4813 Women and Social Policy 3 hrs
Restricted Electives (9 hrs)
Note: It is the student's responsibility to meet all prerequisites for any course selected.
From Psychology, select one of the following:
CLP 3143 Abnormal Psychology 3 hrs
CLP 3302 Clinical Psychology 3 hrs
CLP 4134 Childhood Psychopathology 3 hrs
PCO 4203 Interviewing and Counseling 3 hrs
From Sociology, select one of the following:
SYP 3511 Sociology of Murder 3 hrs
SYP 3530 Juvenile Delinquency 3 hrs
SYP 3562 Soc Perspectives on Domestic Violence 3 hrs
SYP 4521 Criminal Victimization in Society 3 hrs
SYP 4514 Sociology of Violence 3 hrs
SYP 4536 Gangs and Society 3 hrs
From Criminal Justice, select one of the following:
CCJ 3014 Crime in America 3 hrs
CCJ 3024 Criminal Justice System 3 hrs
CCJ 4670 Women and Crime 3 hrs
CJE 4174 Serial Murder & CJ 3 hrs
CCJ 4616 Criminal Profiling in CJ 3 hrs
CCJ 3667 Victims and the CJ System 3 hrs
CCJ 4681 Domestic Violence & the Justice Syst 3 hrs
CCJ 4690 Sex Offenders & the CJ System 3 hrs

Other Requirements
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF within the Department of Criminal Justice.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

CRIME ANALYSIS AND CRIME MAPPING: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies,
HPA1 311
Cory Watkins, 407-823-0365
E-mail: watkins@mail.ucf.edu
Credit Hour Requirements: 18 hrs
Required Courses
SOW 3352 Practice II: Interpersonal Skills 3 hrs
SOW 4654 Children's Services 3 hrs
SOW 4650 Child Abuse: Treatment & Prevention 3 hrs
SOW 4510 Field Education* 9 hrs
* Placement with the Department of Children and Families working with child welfare or placement in an agency that serves children
NOTE: Students need to discuss their interest in the certificate with the field office while arranging for their BSW placement.

CRIME SCENE INVESTIGATION: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies,
HAP 311
Dr. Mary Ann Eastep, 407 823-3598
E-mail: meastep@mail.ucf.edu
Cory Watkins, 407-823-0365
E-mail: watkins@mail.ucf.edu
Credit Hour Requirements: 15 hrs
Required Courses in sequence (9 hrs)
CJE 3662 CJ Information Technology and Data Management 3 hrs
CJE 4653 Crime Analysis I 3 hrs
CCJ 4076 Crime Analysis II 3 hrs
Restricted Upper Division Electives (6 hrs)
Select two of the following:
CCJ 3451 Justice System Technology 3 hrs
CJE 3444 Crime Prevention 3 hrs
CJE 4654 Crime and Place 3 hrs
CCJ 3450 Criminal Justice Manager 3 hrs
CCJ 4454 Policy Development in Law Enforcement 3 hrs
CCJ 4459 Justice Agency Operations 3 hrs

Other Requirements
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF within the Department of Criminal Justice.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

CHILDREN’S SERVICES: Certificate
College of Health and Public Affairs
School of Social Work, HPA1 204
BSW Coordinator, 407-823-2114
This certificate is open only to students in the undergraduate social work program. The Children’s Services Certificate is designed to prepare Social Work students to work with children and families who are facing issues of abuse or neglect, or are involved in some way with the child welfare system. Students learn to assess abuse and neglect and to develop appropriate ways to work with the families and elements of the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.
Certificates will be awarded only at the time of degree completion.

CRIME SCENE INVESTIGATION: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies,
HAP 311
Dr. Mary Ann Eastep, 407 823-3598
E-mail: meastep@mail.ucf.edu
Cory Watkins, 407-823-0365
E-mail: watkins@mail.ucf.edu
Credit Hour Requirements: 15 hrs
Required Courses
ANT 4521C Forensic Anthropology 3 hrs
ANT 4101 Archaeological Sciences 3 hrs
CJE 4616 Criminal Profiling in CJ 3 hrs
CCJ 4000 Criminal Investigation 3 hrs

Other Requirements
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF within the Department of Criminal Justice.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.
<table>
<thead>
<tr>
<th>Certificates</th>
<th></th>
</tr>
</thead>
</table>

**Restricted Upper Division Electives (3 hrs)**

Select one of the following:

- ANT4528C Advanced Forensic Anthropology (5 hrs)
- SYE351 Sociology of Murder (3 hrs)
- CJCE 4630 Serial Murder and the Criminal Justice System (3 hrs)
- CCJ 4195 Interviews and Interrogations in CJ (3 hrs)
- CHS 3501 Introduction to Forensic Science (3 hrs)
- ANI 3115 Archaeological Method and Theory (3 hrs)

**Other Requirements**

- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

**Criminal Profiling: Certificate**

**College of Health and Public Affairs**

**Department of Criminal Justice and Legal Studies, HPA1 311**

Dr. Mary Ann Eastep, 407 823-3598

meastep@mail.ucf.edu

New and more sophisticated techniques and tools of criminal investigation are being developed to assist in meeting the challenges facing today’s law enforcement officers. One area that is becoming formalized in law enforcement is criminal profiling. The certificate program in Criminal Profiling is a way of organizing the fundamental information and education required for profiling. It provides both the theoretical and practical information related to the types of crimes for which profiling is most useful. The program requires 15 credit hours of undergraduate work.

Certificates will be awarded only at the time of degree completion.

**Credit Hour Requirements** 15 hrs

**Required Courses** (12 hrs)

- CLP 3143 Abnormal Psychology (3 hrs)
- CJCE 4630 Serial Murder and the Criminal Justice System (3 hrs)
- CCJ 4690 Sex Offenders and the Criminal Justice System (3 hrs)
- CCJ 4615 Criminal Profiling in Criminal Justice

**Restricted Upper Division Electives (3 hrs)**

Select one of the following:

- CJT 4300 Criminal Investigation
- CJJ 4661 Terrorism
- CCJ 4195 Interviews and Interrogations in CJ

**Other Requirements**

- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the certificate.

**Cultural Tourism: Certificate**

**Office of Undergraduate Studies**

**Office of Liberal and Interdisciplinary Studies**

**CL-I, Room 302; [http://liberalstudies.info](http://liberalstudies.info)**

ls@mail.ucf.edu

Liberal Studies Advising Team, 407-823-0144

This certificate harnesses the naturally related fields of tourism to cultural studies, focusing on the specific cultural and business conditions in Central Florida as well as tourism. The certificate complements several fields, including hospitality management, African American Studies, history, anthropology, and political science. The cultural theme can be fulfilled by specialized areas in African American Heritage, Anthropology, Environmental Tourism, or Latin Cultural Heritage.

**Credit Hour Requirements** 18 hrs

**Required Courses** (12 hrs)

- HFT 3540 Guest Service Management
- HFT 3700 Tourism Management
- HFT 4735 Tourism Geography
- ANT 4438 Anthropology of Tourism

Choose two classes from the following areas (6 hrs)

- African American Heritage area (choose two classes)
- ANT 3104 The African American Experience
- AFA 4105 Documenting African American Heritage and Life

SYD 3700 Race and Ethnic Minorities in the United States

Anthropology area (choose two classes)

- ANT 2100 Archaeology and the Rise of Human Culture
- ANT 3212 Peoples of the World
- ANT 2410 Cultural Anthropology
- ANT 3115 Archaeological Method and Theory
- ANT 3930 Applied Anthropology

Latin American area (choose two classes)

- ANT 3163 Meso American Archaeology
- ANT 3168 Maya Archaeology
- ANT 3332 Peoples and Cultures of Latin America
- ANT 4340 Caribbean Archaeology
- ARH 4655 Meso American Art
- CPO 4303 Comparative Latin American Politics
- LAH 3400 History of Mexico and Central America
- LAH 3470 History of the Caribbean
- LAH 3130 Latin American History I
- LAH 3200 Latin American History II

**Other Requirements**

- A grade of “C” or above (2.0) is required in each course used to satisfy the certificate.
- At least 12 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Co-op credit cannot be used toward the certificate without prior permission of the program director.

**Digital Media: Certificate**

**College of Arts and Humanities**

**CREAT Digital Media Program, 500 OTC**

bowers@mail.ucf.edu

Program Director: Clint Bowers, 407-823-6100

The certificate program focuses on providing an opportunity for students with substantial media-related skills to learn project management skills and participate in a Senior Project. Admission to the Certificate Program is by portfolio only.

**Entrance Requirement**

- Admission to the Digital Arts Seminar requires evaluation of a portfolio of work which demonstrates the student’s creativity and technical accomplishment is some artistic or technical domain.
- All evaluations are conducted by the program Curriculum Committee.

**Credit Hour Requirements:** 12 hrs

**Required Course:**

- DIG 3525 Digital Media Production I (3 hrs)

**Restricted Elective:**

- Any course listed under the Advanced Specializations of the Digital Media major (substitutions must be approved by the program Director prior to being taken)

**Senior Project:**

- DIG 4524L Digital Media Project I (3 hrs)
- IDS 4703 Digital Media Project II (may be repeated for credit)

**Other Requirements**

- A minimum grade of “C” (2.0) is required in each course used to satisfy the certificate.
- All courses used in the certificate must be taken at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can not be used toward the certificate without prior written permission.

**Finance: Certificates**

**College of Business Administration, BA 409**

[http://www.bus.ucf.edu/finance](http://www.bus.ucf.edu/finance)

Restricted to Finance majors

Certificates will be awarded only at the time of degree completion.

**Credit Hour Requirements** 12-15 hrs

**Certificate in Banking** 15 hrs

- FIN 4313 Management of Financial Institutions (3 hrs)
- FIN 4324 Commercial Bank Management (3 hrs)
- ACG 3131 Financial Accounting Concepts & Analysis (3 hrs)
The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The Program cooperates with the departments of English, Modern Languages, History, Philosophy, Political Science, and Sociology/Anthropology, and with the Liberal Studies and Women's Studies Programs. The certificate in Judaic Studies will be awarded to students completing 15 hours in the following Judaic Studies courses.

**Credit Hour Requirements: 15 hrs**

<table>
<thead>
<tr>
<th>Language</th>
<th>HBR 1120 Elementary Modern Hebrew Lang and Cult I</th>
<th>HBR 1121 Elementary Modern Hebrew Lang and Cult II</th>
<th>HBR 2200 Intermediate Modern Hebrew Language and Culture I</th>
<th>HBR 2201 Intermediate Modern Hebrew Language and Culture II</th>
<th>HBR 3410 Conversational Israeli Hebrew</th>
</tr>
</thead>
</table>

**Jewish History**

- JST 3401 The Jewish People I
- JST 3402 The Jewish People II
- JST 3550 Introduction of Modernism into Judaism
- JST 3701 History of the Holocaust

**Bible**

- JST 3120 Jewish Scriptures
- JST 3125 The Book of Job
- JST 3126 Romantic Love in the Bible
- JST 3144 Dead Sea Scrolls

**Literature**

- JST 3100 The Hebrew Creative Mind
- JST 3751 Literature of the Holocaust

**Culture**

- JST 3450 Modern Jewish Experience
- JST 3820 Modern Hebrew Culture
- JST 3810 The Jewish National Movement

Other courses, including special topics, with the approval of the Director.

**Other Requirements**

- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

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**MARKETING: Certificates**

**MARKETING: Certificate**

College of Health and Public Affairs
Department of Communicative Disorders,
HPA2, Suite 101
[http://www.cohpa.ucf.edu/comdis](http://www.cohpa.ucf.edu/comdis)

UG Coordinator: Jamie Schwartz, 407-823-4798

Language disorders are the most prevalent communication disorder. Typically, children, adolescents and adults with language disorders are served via a team approach that includes speech-language pathologists, psychologists, neurologists, pediatricians, nurses, social workers, physical therapists, occupational therapists, school counselors, and general and special educators. This certificate is designed for undergraduate students and practitioners in disciplines related to speech-language pathology who wish to pursue a special emphasis in language development and disorders in children, adolescents and adults.

Certificates will be awarded only at the time of degree completion.

**Credit Hour Requirements: 13 hrs**

| Required Courses |
|------------------|-----------------|-----------------|-----------------|-----------------|
| LIN 3716 Language Development: Birth through 8 years | 3 hrs |
| LIN 3717 Language Development: 9 through 18 years | 3 hrs |
| LIN 4711 Language Analysis | 3 hrs |
| LIN 4711L Language Analysis Lab | 1 hr |
| SPA 4400 Language Disorders Across the Life Span | 3 hrs |

**Other Requirements**

- A minimum grade of “C-” (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the certificate.
- At least 10 hours used in the program must be earned at UCF with the Department of Communicative Disorders.
- No credit by exam (TSD, Military credit) internship or independent study credit may be used toward the certificate.

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**JUDAIC STUDIES: Certificate**

College of Arts and Humanities
Judaic Studies Program, CNH 201
[http://www.cas.ucf.edu/judaic_studies](http://www.cas.ucf.edu/judaic_studies)

E-mail: judaicst@ucf.edu

Moshe Pelli, 407-823-5039

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The Program cooperates with the departments of English, Modern Languages, History, Philosophy, Political Science,
<table>
<thead>
<tr>
<th>College of Business Administration</th>
<th>Department of Marketing, BA 3075</th>
</tr>
</thead>
<tbody>
<tr>
<td><em>Restricted to Marketing majors</em></td>
<td>9 hrs</td>
</tr>
<tr>
<td>Certificates will be awarded only at the time of degree completion.</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Certificate in Selling and Sales Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAR 3403 - Sales Force Management</td>
</tr>
<tr>
<td><strong>MAR 4941</strong> - (internship in sales-related position)</td>
</tr>
<tr>
<td>One additional Marketing elective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Certificate in Retailing Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAR 4231 - Retailing Management</td>
</tr>
<tr>
<td><strong>MAR 4941</strong> - (internship in retail-related position)</td>
</tr>
<tr>
<td>One additional Marketing elective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Certificate in e-Marketing</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAR 3880 - e-Marketing</td>
</tr>
<tr>
<td><strong>MAR 4941</strong> - (internship in &quot;e&quot;-related position)</td>
</tr>
<tr>
<td>One additional Marketing elective</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Certificate in Sport Marketing Management</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAR 4711 - Sport Marketing</td>
</tr>
<tr>
<td><strong>MAR 4941</strong> - (internship in sport-related position)</td>
</tr>
<tr>
<td>One additional Marketing elective</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Certificate in Healthcare Marketing</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAR 4712 - Healthcare Marketing</td>
</tr>
<tr>
<td><strong>MAR 4941</strong> - (internship in healthcare-related position)</td>
</tr>
<tr>
<td>One additional Marketing elective</td>
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</tbody>
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<table>
<thead>
<tr>
<th>Certificate in Services Marketing</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAR 4841 - Services Marketing</td>
</tr>
<tr>
<td><strong>MAR 4941</strong> - (internship in services-related position)</td>
</tr>
<tr>
<td>One additional Marketing elective</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Certificate in Entertainment Marketing</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAR 4715 - Entertainment Marketing</td>
</tr>
<tr>
<td><strong>MAR 4941</strong> - (internship in entertainment-related position)</td>
</tr>
<tr>
<td>One additional Marketing elective</td>
</tr>
<tr>
<td><em>These nine hours count as the nine elective marketing hours required in the major.</em></td>
</tr>
<tr>
<td>*<em>Certificate attainment is subject to the availability of internship opportunities in the area of interest.</em></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>NONPROFIT MANAGEMENT: Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Health &amp; Public Affairs</td>
</tr>
<tr>
<td>Department of Public Administration, HPA 2 238</td>
</tr>
<tr>
<td>Dr. Mary Ann Feldheim, 407-823-2604</td>
</tr>
</tbody>
</table>

The Certificate program will provide basic knowledge in nonprofit management, resource development, volunteer management, strategic planning, and program evaluation for those students interested in nonprofit sector management as a career. Certificates will be awarded only at the time of degree completion.

<table>
<thead>
<tr>
<th>Credit Hour Requirements</th>
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</thead>
<tbody>
<tr>
<td>Required Courses (15 hrs)</td>
</tr>
<tr>
<td>PAD 4144 - Nonprofit Organizations</td>
</tr>
<tr>
<td>PAD 4148 - Volunteer Management</td>
</tr>
<tr>
<td>PAD 4147 - Resource Dev. in the Nonprofit Sector</td>
</tr>
<tr>
<td>PAD 4325 - Program Eval. Public &amp; Nonprofit Org</td>
</tr>
<tr>
<td>PAD 4153 - Strategic Planning &amp; Implementation</td>
</tr>
</tbody>
</table>

| Restrictive Elective Course (3 hrs) |

See advisor for approved courses.

Other Requirements:

- A minimum grade of "C" (2.0) is required in each course.
- Students must earn a 2.0 ("C") for credit to be accepted.
- At least 12 hours used in the program must be earned at UCF within the Department of Public Administration.

<table>
<thead>
<tr>
<th>REAL ESTATE: Certificates</th>
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</thead>
<tbody>
<tr>
<td>College of Business Administration</td>
</tr>
<tr>
<td>Department of Finance, BA 409</td>
</tr>
<tr>
<td><a href="http://www.bus.ucf.edu/finance">http://www.bus.ucf.edu/finance</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Credit Hour Requirements</th>
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</thead>
<tbody>
<tr>
<td>Certificates will be awarded only at the time of degree completion.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Certificate in Real Estate Brokerage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completion of this certificate qualifies a student to sit for the Florida real estate sales license.</td>
</tr>
<tr>
<td>RRE 3043 - Fundamentals of Real Estate</td>
</tr>
<tr>
<td>RRE 3433 - Real Estate Law</td>
</tr>
<tr>
<td>RRE 4303 - Real Estate Investing Analysis</td>
</tr>
<tr>
<td>MAR 3391 - Real Estate Appraisal</td>
</tr>
<tr>
<td><strong>FIN 4941</strong> - Internship (real estate brokerage)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Certificate in Real Estate Appraisal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completion of this certificate qualifies a student to sit for the Florida real estate appraiser's license.</td>
</tr>
<tr>
<td>RRE 3043 - Fundamentals of Real Estate</td>
</tr>
<tr>
<td>RRE 3433 - Real Estate Law</td>
</tr>
<tr>
<td>RRE 4103 - Real Estate Appraisal Evaluation</td>
</tr>
<tr>
<td>MAR 3391 - Professional Selling</td>
</tr>
<tr>
<td><strong>FIN 4941</strong> - Internship (real estate appraisal)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Certificate in Mortgage Brokerage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completion of this certificate qualifies a student to sit for the Florida mortgage broker's license.</td>
</tr>
<tr>
<td>RRE 3043 - Fundamentals of Real Estate</td>
</tr>
<tr>
<td>RRE 3433 - Real Estate Law</td>
</tr>
<tr>
<td>RRE 4204 - Residential Real Estate Finance</td>
</tr>
<tr>
<td>MAR 3391 - Professional Selling</td>
</tr>
<tr>
<td><strong>FIN 4941</strong> - Internship (mortgage brokerage)</td>
</tr>
</tbody>
</table>

*Restricted to real estate majors. These certificates do not require additional hours beyond the BA and BSBA real estate major programs. They are intended to allow students to develop specializations in specific areas of interest and to prepare for licensing exams.

**Internships must be paid internships in the area of specialization, and should be completed in the senior year after completing at least 6 hours of real estate courses. Internship packets are available in the department of Finance (BA 409). Certificate attainment is subject to the availability of internship opportunities in the area of interest.

<table>
<thead>
<tr>
<th>SECURITY MANAGEMENT: Certificate</th>
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<tbody>
<tr>
<td>College of Health and Public Affairs</td>
</tr>
<tr>
<td>Department of Criminal Justice and Legal Studies, HPA 311</td>
</tr>
<tr>
<td>Jerome Randall, 407-823-2603</td>
</tr>
<tr>
<td>E-mail: <a href="mailto:jrandall@mail.ucf.edu">jrandall@mail.ucf.edu</a></td>
</tr>
</tbody>
</table>

The security industry is rapidly growing in the State of Florida and in the nation. This area is in need of qualified, innovative managers and leaders to meet the demands of the twenty-first century. A student in this certificate program will gain experience in risk assessment, legal issues, and contemporary approaches to security management.

<table>
<thead>
<tr>
<th>Credit Hour Requirements</th>
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</thead>
<tbody>
<tr>
<td>15 hrs</td>
</tr>
<tr>
<td>Required Courses (12 hrs)</td>
</tr>
<tr>
<td>CJT 3804 - Security Administration</td>
</tr>
<tr>
<td>CJT 3833 - Security Management</td>
</tr>
<tr>
<td>CJT 4843 - Risk Management</td>
</tr>
<tr>
<td>CJ 4644 - White Collar Crime</td>
</tr>
<tr>
<td>Restricted Upper Division Electives (3 hrs)</td>
</tr>
<tr>
<td>Select one of the following:</td>
</tr>
<tr>
<td>CCJ 4661 - Conflict and Terrorism</td>
</tr>
<tr>
<td>CJE 3444 - Crime Prevention</td>
</tr>
<tr>
<td>CJT 3842 - Special Security Problems</td>
</tr>
<tr>
<td>PLAS937 - Seminar in Contemporary Legal Problems</td>
</tr>
<tr>
<td>PLAS273 - Law of Torts</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Other Requirements</th>
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</thead>
<tbody>
<tr>
<td>A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.</td>
</tr>
<tr>
<td>At least 12 hours used in the certificate must be earned at UCF within the department.</td>
</tr>
<tr>
<td>No credit by exam (TSD, Military credit) may be used.</td>
</tr>
<tr>
<td>Internship or Independent Study credit cannot be used toward the certificate.</td>
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</tbody>
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<table>
<thead>
<tr>
<th>SERVICE-LEARNING: Certificate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Office of Undergraduate Studies</td>
</tr>
<tr>
<td>Experiential Learning, PH 208</td>
</tr>
<tr>
<td>S. Dressler, 407-823-5000</td>
</tr>
<tr>
<td>email: <a href="mailto:EL@mail.ucf.edu">EL@mail.ucf.edu</a></td>
</tr>
</tbody>
</table>

The certificate program in Service-Learning is designed for students in any discipline who seek to engage in a reflective analysis of com-
Community service as it relates to academic course work. Service-Learning furthers the learning objectives of the academic course, addresses community needs, and requires students to reflect on their activity in order to gain an appreciation for the relationship between civics and academica. Through Service-Learning (SL) courses, students develop academic skills, civic responsibility, and career opportunities. This certificate is open to all undergraduate and graduate students in any major.

Credit Hour Requirements
12 hrs
Students may choose any of the UCF-approved service-learning courses in any discipline to satisfy the credit hour requirements. Service-Learning courses are designated with an “SL” and can be accessed under “special groups” in the class schedule.

Course Requirements: 4 UCF-approved SL courses
Students may choose any four (4) of the UCF-approved service-learning courses in any discipline to satisfy the credit hour requirements. Service-Learning courses are designated with an “SL” and can be accessed under “special groups” in the class schedule.

Other Requirements
- Minimum GPA of 2.5 in UCF-approved SL classes.
- Minimum of 60 community service hours in four (4) UCF-approved SL classes.

TRANSLATION AND INTERPRETATION: Certificate
College of Arts and Humanities
Modern Languages and Literatures, CNH 505
http://www.cas.ucf.edu/forlang
foreignlanguage@ucf.edu
Maria Redmon, CNH 512, 407-823-5738
Email: mredmon@mail.ucf.edu

Credit Hour Requirements
18 hrs

Required Skills
Students must pass an oral exam for proficiency in Spanish and English before being admitted to the certificate program.

Required Courses
12 hrs
SPT 3800 Span Translation and Interpretation 3 hrs
SPT 3805 Span Trans & Interp for Mass Com 3 hrs
SPT 3809 Medical Span Trans/Interp 3 hrs
SPT 3831 Spanish Legal Trans/Interp 3 hrs

Restricted Upper Division Electives
6 hrs
SPN 3933 Spanish Across the Curriculum 3 hrs
SPN 4941 Internship 3 hrs

Any upper division SPN or SPT course with advisor's approval

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the certificate.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the Department.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Co-op credit cannot be used toward the certificate.
- Satisfactory completion of translation and interpretation exit exam.

WOMEN’S STUDIES: Certificate
College of Arts and Humanities
Women's Studies Program, CNH 201H
http://www.cas.ucf.edu/womensstudies
L. M. Logan, 407-823-6502, email: womensst@ucf.edu

The certificate program in Women's Studies is designed to provide students with a basic, working knowledge of gender roles and women’s issues. The certificate program is open to both degree-seeking and non degree-seeking students, but should be particularly beneficial to students in professional degree programs who will serve women and/or girls as a client population, but whose elective hours are restricted.
Study Abroad Programs

By its very nature, study abroad provides an exciting setting for learning – one in which student interaction is central to the learning process. Study abroad participants also learn about new environments, customs and, in many cases, new languages. They deal with the uncertainties of international travel and must adapt to the dynamics of the group. Maturity, self-confidence, and awareness of other cultures are only some of the benefits of study abroad.

Students are invited to expand their classroom, their experience, and their future through study abroad.

UCF study abroad opportunities are a cooperative venture of academic departments and the Office of International Studies (OIS), and are designed to provide an exceptional learning experience, while matching the needs and situations of UCF students. The two main types of programs administered by UCF are Short Term Programs and Student Exchanges.

Short Term Programs are intended to provide the maximum amount of exposure to a subject in the shortest period of time. They must meet all the criteria for UCF courses and can be delivered as complete modules, or as a complement to a course delivered on campus or online. Examples of short term programs that UCF has offered in the past include the Department of Foreign Languages’ intensive programs in France, Japan, Germany, Spain and Italy; Social Work Department programs in South Africa and Russia; Criminal Justice in Barbados and Russia; Nursing in Sweden, Education in the Netherlands, Hospitality in France, and Art in Scotland.

Student Exchanges provide the opportunity to become a student at a university abroad for one semester or even a year. The longer terms allow for a more extensive experience abroad. Student exchanges require greater personal commitment, maturity and organization. Therefore, they are limited to UCF students who have attained at least a junior status and who have a minimum 3.0 GPA. Some of the exchanges that have been offered at UCF are Qingdao University in China; Universite de Angers and Paul Sabatier in France; Meikai University in Japan; University of Lima in Peru; the universities of Lund, Jonkoping, Mallardalen, and Dalarna in Sweden; and University College Northampton in the United Kingdom.

UCF students may also take advantage of the options provided by other member universities in the State University System (SUS) of Florida. There are numerous programs available through the system. UCF students apply to these programs directly and must become transient students at the host institution.

There are many additional study abroad options available to UCF students. It is important that students investigate their choices, the requirements and the implications that each choice has in terms of cost, credit transferability and progress toward graduation. OIS staff members can provide program advice and general information about options. For up-to-date information, please visit www.international.ucf.edu, or contact the office at 407-882-2300.
### Degree Requirements

**1. UCF General Education Program (36 hrs)**
- A. Communication Foundations
  - Required: SPC 1600
- B. Cultural and Historical Foundations
  - 9 hrs
- C. Mathematical Foundations
  - Select MAC 1105 College Algebra
  - Select CJS 2100CC Computer Fundamentals for Business
  - 3 hrs
- D. Social Foundations
  - Select ECO 2013 Principles of Macroeconomics or
  - 3 hrs
  - ECO 2023 Principles of Microeconomics
  - Select one: PSY 2012, SYG 2000, ANT 2000
  - 3 hrs
- E. Science Foundation
  - 6 hrs

**2. Common Program Prerequisites (3 hrs)**
- ECO 2013* Principles of Macroeconomics
- ECO 2023* Principles of Microeconomics
- * See transfer notes for possible substitutions

**3. Required Undergraduate Major Courses (15 hrs)**
- ECO 3101 Intermediate Microeconomics
- 3 hrs
- ECO 3203 Intermediate Macroeconomics
- 3 hrs
- ECO 3401 Quantitative Business Tools I
- 3 hrs
- ECO 3411 Quantitative Business Tools II
- 3 hrs
- ECO 4451 Research Methods in Economics
- 3 hrs

**4. Restricted Elective (3 hrs)**
- Select any 3000-4999 level economics elective
- other than those required

**5. Courses shared BA/MS (15 hrs)**
- ECO 6403 Mathematical Economics
- 3 hrs
- ECO 6116 Microeconomic Theory I
- 3 hrs
- ECO 6206 Macroeconomics Theory I
- 3 hrs
- ECO 6424 Econometrics I
- 3 hrs
- ECO 6XXX Economics Elective
- 3 hrs
- * 15 hours can count towards both BA and MS

**6. Required Minor (18 hrs)**
- Completion of a minor in one of the following:
  - Computer Science, History, Mathematics, Statistics, Political Science, Psychology, or Sociology.

**7. Program Exit Requirements**
- A minimum grade of 3.0 is required for all graduate courses.
- A minimum GPA of 2.5 is required for all courses taken in the major and minor.
- Computer Competence is met by Research Methods course.

**8. Foreign Language (0-8 hrs)**
- Admission: Met by graduate requirement.
- Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literature or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

**9. Electives (variable)**

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### Additional Information

- **Admission Guidelines**
  - Completion of the UCF General Education program or an AA degree from a Florida Public Community College
  - See Common Program Prerequisites
  - 3.25 GPA after completion of 80 credit hours
  - 1260 SAT or 28 ACT desired. If students do not meet this criterion, they must submit a GRE or GMAT score
  - Apply to the program in the fifth semester of classes. Admission is not automatic. Interested students will need to submit an essay and must be interviewed.

- **Degree Requirements**
  - A minimum grade of 3.0 is required for all graduate courses.
  - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credit permitted.
  - Completed the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

- **Total Semester Hours Required (B.A.)**
  - 120 hrs

- **11. Courses taken toward MS**
  - Six to nine additional hours of 6000 level economics electives.
  - A maximum of three hours of an approved non-economic elective may substitute for an economics elective. Select from disciplines such as accounting, finance, management, marketing, mathematics, statistics, public administration, health sciences, political science, computer science, and environmental engineering.

- **Total Semester Hours (BA/MS)**
  - 135 hrs

The baccalaureate degree will be awarded when program requirements for the BA are met and students have completed a minimum of 120 hours of credit. Students will then be reclassified as graduate students. The MS will be awarded on completion of the total program of study.

- **Transfer Notes:**
  - The following will be waived for this joint degree program:
    - The limit of nine hours to be shared between undergraduate and graduate programs
    - Undergraduate students taking 6000 level courses must be within nine hours of graduation
    - Undergraduate students taking 6000 level courses must not register for more than a total of twelve hours in that semester

- **Acceptable substitutes**
  - For Common Program Prerequisites if taken prior to transferring to UCF:
    - ECO 2013 and ECO 2023 are prerequisites for subsequent economics courses and will need to be taken.
Accelerated Undergraduate-Graduate Programs

**UNDERGRADUATE-GRADUATE PROGRAM (B.A. and M.A.)**

**College of Arts and Humanities**

**CNH 551, 407-823-2224**

**http://pegasus.cc.ucf.edu/~history**

**Graduate program E-mail: hisgrad@ucf.edu**

**Undergraduate program E-mail: history@ucf.edu**

**Chair: Edmund F. Kallina**

**Graduate Program Coordinator: Hong Zhang**

**Purpose of this degree:** This program allows highly qualified undergraduate majors in history to begin taking graduate-level coursework which will count towards their master’s degree while completing their baccalaureate degree program. Participation will enable completion of a B.A. and M.A. in five instead of six years for students enrolled in full-time course work.

**Admission Requirements**

- Students apply for admission to the accelerated program at the end of their junior year or after 12 hours of upper-level history course work.
- A 3.5 GPA or better in history courses and a 3.25 overall GPA or better
- Graduate Record Exam (GRE) combined score of 1050 on both the verbal and quantitative sections of the exam and a score of at least 550 on the verbal section
- Completion of a graduate application, including an essay indicating reasons for desiring to complete the accelerated program, and three letters of recommendation from History Department faculty to be submitted to the History department
- Students will be formally admitted to the master’s program following receipt of the BA degree

**Undergraduate Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a QBO (3.0) in each history course for it to be counted toward the major
- Co-op credit cannot be used in this major
- Students should consult with the departmental graduate coordinator
- Departmental residency requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF History Department. Students may substitute up to nine hours of 5000- or 6000-level courses to meet this requirement.
- Students must compile a portfolio of their written work in history completed inside and outside the classroom
- The B.A. will be awarded after completion of 36 hours of history classes
- The M.A. will be awarded upon completion of the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours (see history major requirements)

**Graduate Degree Requirements**

- The graduate requirements listed in the Graduate Catalog take precedence over those listed below.
- Students admitted to the accelerated program may take a 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 nine hours of graduate-level work for 9 hours of 3000- or 4000-level undergraduate courses
- Students need to pay fees at the graduate rate for the graduate courses they take
- Schedule for students enrolled full-time in the accelerated program:
  - Students complete nine hours of graduate-level courses their senior year
  - Students enroll in at least three hours of graduate-level course work the summer after they receive their B.A.
  - Students enroll in nine hours of graduate-level courses in both
Accelerated Undergraduate-Graduate Programs

spring and fall semesters during their M.A. year
- Students complete the Capstone course, pass their preliminary exams, and fulfill their foreign language requirement by the end of their first MA year
- Students complete and defend a master’s thesis in six hours

Undergraduate Requirements

1. UCF General Education Program (36 hrs)
(See the History major in this catalog for track specific GEP requirements)

2. Common Program Prerequisites (0 hrs)
- AMH 2010* U.S. History: 1492-1877 GEP
- AMH 2020* U.S. History: 1877-Present GEP
*See Transfer Notes for possible substitutes

3. Core Requirements (9 hrs)
- HIS 4550 History & Historians 3 hrs
- Select one sequence
  - EUH 2000, 2001 Western Civilization I & II 6 hrs
  - WOH 2012, 2022 World Civilization I & II

4. Upper Division Restricted Electives (21 hrs)
Select six hours of approved history courses within three of the four geographic regions 18 hrs
1. Asian, African, and Middle Eastern
2. British and European
3. Latin American
4. U.S. and Canadian
- Select three hours of approved history courses 3 hrs
- Students may substitute nine hours of 5000- or 6000-level course work for 3000- or 4000-level courses

5. Departmental Exit Requirements
- Maintain a minimum GPA of 3.5 in upper division required courses attempted
- Submit a portfolio during the semester of graduation. The portfolio will include representative samples of the student’s written work including, but not limited to, book critiques, in-class essay exams, and term papers
- Students must complete at least 18 of the required 36 history hours at UCF
- Computer competency met by completion of the major

6. Foreign Language Requirements 0-8 hrs

Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign language may be used to meet the requirement. Majors who are participating in the accelerated program should complete two years of a foreign language, preferably one functional in their area of historical interest. Students may take the department’s M.A. foreign language proficiency exam immediately following the completion of their foreign language course work.

7. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

8. University Minimum Exit Requirements - BA
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of summer credit (if applicable)

Total Semester Hours Required 120 hours

Overall History MA Requirements (36 hrs)*
* Nine hours of graduate work are earned in the senior year, in consultation with the history graduate coordinator.

1. Required Graduate Courses (12 hrs)
- HIS 6159 Historiography 3 hrs
- HIS 6905 Capstone Course 3 hrs
- HIS 6971 Thesis 6 hrs

2. Courses in Area of Concentration (18 hrs)
Assumes that nine additional hours of graduate courses were taken during the senior year.
(Eastern Hemisphere: African, Asian, European, or Middle Eastern; or Western Hemisphere: Caribbean, North American, or South American)

3. Outside Area of Concentration in History (6 hrs)

4. Foreign Language Requirement
Students will also be expected to demonstrate reading competency in one foreign language. The foreign language competence must be completed one semester prior to the thesis defense.

5. Examination Requirements
Each candidate for the M.A. 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. 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.

Minimum Hours Required for M.A. - 36 Semester Hours (nine hours of which also count toward the B.A. degree)

Related Programs: Humanities
Related Minors: African-American Studies, Asian Studies, History, Humanities, Judaic Studies, Latin American Area Studies, Middle Eastern Studies, Women’s Studies

Transfer Notes:
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- AMH 2010* & 2020*: may use any two introductory courses with an AMH, EUH, LAH, ASH, HIS or WOH prefix. However AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.
**LIBERAL STUDIES ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A./B.S. AND M.A./M.S.)**

**Office of Undergraduate Studies**  
Office of Liberal & Interdisciplinary Studies  
http://liberalstudies.info

Liberal Studies Advising Team, 407-823-0144  
E-mail: ls@mail.ucf.edu

The accelerated Program allows outstanding Liberal Studies students to earn a B.A. or B.S. degree and a M.A./M.S. degree in as few as five years. Students earn nine hours of graduate credit toward the M.A./M.S. while still an undergraduate, and then earn an additional twenty-four credits after earning the B.A. or B.S. degree.

Students majoring in any of the Liberal Studies tracks may apply for the program. This unique course of study requires close advising with program advisors, and approval by the M.A./M.S. in Liberal Studies program.

**Admission Requirements**

Acceptance to the university does not constitute admission to the accelerated program. An additional application to the program must be submitted and the student accepted. Contact the Liberal Studies accelerated program. Students majoring in any of the Liberal Studies tracks may apply for the program. This unique course of study requires close advising with program advisors, and approval by the M.A./M.S. in Liberal Studies program.

**Undergraduate Degree Requirements**

Undergraduate degree requirements vary by track, and each track’s requirements must be checked carefully in the appropriate Liberal Studies degree section.

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared a Liberal Studies major at least one semester before graduation.
- Co-op or internship credit cannot be used in this major.
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major.
- Students must earn at least a “C” (2.0) in each restricted elective course.
- Students must consult with a Liberal Studies advisor in order to prepare an application.

**Graduate Degree Requirements**

The accelerated Program involves a minimum of 144 credits for completion of both the B.A./B.S. and M.A./M.S. degrees.

- The graduate requirements listed in the Graduate Catalog take precedence over those listed below.
- Students take nine graduate credit hours during their senior year which substitute for 3000- or 4000-level courses as part of the program requirements.
- Students pay graduate tuition and fees for the nine graduate credit hours.
- All requirements of the undergraduate and graduate degree programs must be fulfilled.
- Students should consult with the Liberal Studies advisor before applying for the program.
- Approval for course substitutions and for graduate courses must be given by the Liberal Studies advisors.
- The B.A./B.S. will be awarded after completing all the requirements for that degree in the undergraduate program.

1. **UCF General Education Program** (36 hrs)

(See Liberal Studies sections of the catalog for track-specific GEP requirements)

2. **Common Program Prerequisites:** none

3. **Track Requirements**

Students complete the requirements of the program based on the track option in Liberal Arts, Liberal Studies, Computer Information Technology, Environmental Studies, or Women’s Studies. See the description in the Liberal Studies sections for full information about each track.

- **Liberal Studies track** (61 hrs)
  - Minor
    - 18 hrs
  - Two liberal studies areas which include at least 18 upper division hours
    - Area 1
      - 18 hrs
    - Area 2
      - 18 hrs
- **Computer Information Technology (CIT) track** (54 hrs)
  - Students must complete the Computer Science minor and the Information Technology minor (Option 3)
  - 36 hrs
  - One liberal studies area
    - 18 hrs
- **Liberal Arts track** (42 hrs)
  - An approved course in critical thinking, ethics or methodologies
    - 3 hrs
  - Minor, or individualized minor
    - 18 hrs
  - 2nd minor from College of Arts & Humanities or College of Science or Nine hours in each of two concentrations
    - 18 hrs
  - One of the following
    - IDS 4912 Directed Independent Research 3 hrs
    - IDS 4955 Study Abroad 3 hrs
    - IDS 4970H Thesis 3 hrs
- **Environmental Studies Track** (48 hrs)
  - Core for Environmental Studies
    - 11 hrs
  - Subject area: Environmental Studies Fundamentals
    - 19 hrs
  - Specialized Subject area
    - 18 hrs
- **Women's Studies Track** (54 hrs)
  - Women's Studies minor
    - 18 hrs
  - One Women's Studies Subject area
    - 18 hrs
  - One Liberal Studies Subject area
    - 18 hrs

4. **Program Exit Requirements**

Liberal Studies, Environmental Studies, and Women's Studies tracks must meet the following requirements:

- A grade of “C” or above (2.0) is required for each course taken in each of the subject areas.
- Computer Competency met by CGS 1060C, STA 1060C, or other computer-related course, or departmental assessment in the minor and CIT Track
- A grade of “C” or above (2.0) is required for each course taken in the minor and in the subject area.
- Computer Competency met by minor.
- Liberal Arts track
- Maintain a minimum GPA of 3.5 in all Liberal Arts Track courses

5. **Foreign Language Requirements** (0-8 hrs)

- **Admission-BA:** Met by graduation requirement.
- **Admission-BS:** Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
- **Graduation-BA:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.
- **Graduation-BS:** Proficiency equivalent to one semester of college
Accelere...
Accelerated Undergraduate-Graduate Programs

at least 2.0 for all coursework in the Core and Restricted Electives

For accelerated program the degree is awarded after successful completion of first year USF Medical School program.

6. Electives: None

7. Foreign Language Requirements Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements Total Semester Hours Required 120 hrs

For accelerated program, 14 credit hours will be from completion of USF College of Medicine first year courses.

Related Programs: Biology, Liberal Studies

Related Minors: Biology, Chemistry

Tentative Course Schedule for Entering Freshmen

Freshman Year

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>ENC 1101H</td>
<td>3</td>
<td>ENC 1102H</td>
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<tr>
<td>PSY 2011H or SYG 2000 or ANT 2000H</td>
<td>3</td>
<td>CHM 2046</td>
</tr>
<tr>
<td>CHM 2045C</td>
<td>4</td>
<td>CHM 2046L</td>
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<tr>
<td>BSC 2010C</td>
<td>4</td>
<td>MAC 2311</td>
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<tr>
<td>IMD 1921</td>
<td>1</td>
<td>SLS 2311C</td>
</tr>
<tr>
<td>Summer</td>
<td></td>
<td></td>
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<tr>
<td>PCB 3703C</td>
<td>4</td>
<td></td>
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<tr>
<td>ZOO 3733C</td>
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Sophomore Year

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<tr>
<td>CHM 2110</td>
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<td>CHM 211L</td>
</tr>
<tr>
<td>MCB3020C</td>
<td>5</td>
<td>CHM 211L</td>
</tr>
<tr>
<td>PHI 4633H or PAF 3753H</td>
<td>3</td>
<td>PHY 2054C or PHY 2049,2049L</td>
</tr>
<tr>
<td>PHY 2053C or PHY 2048,248L</td>
<td>4</td>
<td>BSC 3403C</td>
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<tr>
<td>MCB 4941</td>
<td>1</td>
<td>SPC 1018H</td>
</tr>
<tr>
<td>Summer</td>
<td>0 hrs</td>
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<tr>
<td>MCAT Prep Exam</td>
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Junior Year

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<th>Course Code</th>
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<tr>
<td>PCB 3522</td>
<td>3</td>
<td>PCB 4524</td>
</tr>
<tr>
<td>BCH 4053</td>
<td>3</td>
<td>PCB 4239, 3233L</td>
</tr>
<tr>
<td>ENC 324/JNC 3241H</td>
<td>3</td>
<td>Cultural/Historical</td>
</tr>
<tr>
<td>BSC 2011C</td>
<td>4</td>
<td>ECO 2013 or POS 2041</td>
</tr>
<tr>
<td>Cultural/Historical</td>
<td>3</td>
<td>Cultural/Historical</td>
</tr>
<tr>
<td>Summer</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>MCB 4912</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

NURSING ACCELERATED SECOND DEGREE C. BACHELOR OF SCIENCE IN NURSING (BSN) OPTION

(For individuals who are not Registered Nurses but who hold a baccalaureate or higher degree from a regionally accredited college or university)

College of Health and Public Affairs HPA 220, 407-823-2744

E-mail: ucfnurse@mail.ucf.edu

Undergraduate Coordinator: Patricia Leli

Admission Requirements Limited Access

Acceptance to the university does not constitute admission to the upper division nursing program.

Separate application to the limited access accelerated second degree bachelor of science in nursing (BSN) option must be made directly to the School of Nursing prior to January 15 of the year admission is sought

Application to the University must also be submitted by the program deadline.

Students who have never attended the University of Central Florida as degree seeking undergraduate students must apply to the Undergraduate Admissions Office. Students should complete the regular undergraduate admission application.

Students who have attended the University of Central Florida as degree seeking undergraduate students should apply through the Registrar’s Office. These students complete the "Readmission Application" form.

Students must receive a baccalaureate or higher degree from a regionally accredited college or university prior to the start of the program.

Three science prerequisite courses must be completed prior to application to the program.

All applicants must have a minimum overall GPA of 2.80, and complete all program prerequisite courses with a grade of “C” (2.0) or better.

All applicants must complete an accelerated second degree program in association with a mandatory information session.

Graduates are eligible to apply to take the licensing examination for registered nurses (NCLEX). The program is accredited by the National League for Nursing and the Commission of Collegiate Nursing Education and approved by the Florida State Board of Nursing.

Nursing Accelerated Second Degree Program begins in Summer Semester.

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements that cannot be answered by college advisors.

A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the nursing major are required for continuation and graduation from the Nursing Program.

UCF Residency requirement: 30 hours (if applicable)

Any variation from the stated prerequisite must be approved in writing by the School of Nursing. Petition forms are available in the School of Nursing office.

1. UCF General Education Program NA

2. Common Program Prerequisites (31 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>PSY 2012</td>
<td>General Psychology</td>
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</tr>
<tr>
<td>SYG 2000</td>
<td>Sociology</td>
<td>3</td>
</tr>
<tr>
<td>MCB 2004C</td>
<td>Health Microbiology</td>
<td>4</td>
</tr>
<tr>
<td>CHM 1032L</td>
<td>General Chemistry and lab*</td>
<td>4</td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>Human Anatomy**</td>
<td>4</td>
</tr>
<tr>
<td>PCB 3703C</td>
<td>Human Physiology**</td>
<td>4</td>
</tr>
<tr>
<td>STA 2014C or 2013 Principles of Statistics</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>SOW 3104</td>
<td>Assessing Human Development or</td>
<td>3</td>
</tr>
<tr>
<td>HUN 3011</td>
<td>Human Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

* The first semester of a two semester general chemistry course does not meet requirement.

** May take Anatomy and Physiology sequence of six-eight total credits.

3. Core Requirements (53 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>NUR 3026L</td>
<td>Thera Interv. For Health Prof.</td>
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</tr>
<tr>
<td>NUR 3065</td>
<td>Health Assessment</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3065L</td>
<td>Health Assessment Lab</td>
<td>1</td>
</tr>
<tr>
<td>NUR 3167</td>
<td>Accel Nursing Research Sem</td>
<td>1</td>
</tr>
<tr>
<td>NUR 3235</td>
<td>Promoting Physical &amp; Mental Health</td>
<td>5</td>
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<tr>
<td>NUR 3235L</td>
<td>Clin Pract in Prom Phys/Mental Health</td>
<td>4</td>
</tr>
<tr>
<td>NUR 3637</td>
<td>Accel Hlth Fam and Comm</td>
<td>5</td>
</tr>
<tr>
<td>NUR 3637L</td>
<td>Accelerated Clin Hlth Fam and Comm</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3825</td>
<td>Role of the Professional Nurse</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3128</td>
<td>Pathophysiology &amp; Pharmacology</td>
<td>5</td>
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</table>
### Accelerated Undergraduate-Graduate Programs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>NUR 4525</td>
<td>Nursing Intervention in Mental Illness</td>
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<tr>
<td>NUR 4525L</td>
<td>Clinical Practice w/ Mentally Ill Client</td>
<td>1 hr</td>
</tr>
<tr>
<td>NUR 4639</td>
<td>Accel Comm Continuum</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 4636L</td>
<td>Clinical Pract in Comm-Orient Nurs</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 4745</td>
<td>Nursing Care of Clients w/ Acute III</td>
<td>4 hrs</td>
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<tr>
<td>NUR 4745L</td>
<td>Clinical Practice in Acute Ill</td>
<td>4 hrs</td>
</tr>
<tr>
<td>NUR 4829</td>
<td>Accel Trans Leader</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4945L</td>
<td>Directed Nursing Practice</td>
<td>4 hrs</td>
</tr>
<tr>
<td>NUR 4XXX</td>
<td>Nursing Elective</td>
<td>3 hrs **</td>
</tr>
</tbody>
</table>

* Students without a research course on transcript must take NUR 3165
** Students may petition to waive elective requirement. Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course.

### 4. Upper Division Restricted Electives (3 hrs)

Nursing Elective:

May not be required. However, some NUR 4945L placements do require an elective be taken concurrently.

### 5. Department Continuation and Exit Requirements

Completion of all courses in major with a grade of “C” (2.0) or better

- UCF GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

### 7. Foreign Language requirements

- Admission: none
- Graduation: none

### 8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF

### Total Semester Hours Required for 2nd Degree BSN

53 hrs

### Related Programs

Health Services Administration, Social Work, all health programs

### Related Minors

Aging Studies, Psychology, Health Sciences, Health Services Administration

### Transfer Notes:

Examples of Community College Equivalent Courses for

#### Prerequisites

- General Psychology (PSY X012) or any General Psychology course 3
- General Sociology (SYG 2000) or any Intro to Sociology course 3
- Statistics (STA 2014C or 2023) or any Statistics course 3
- General Chemistry (CHM 1032 or any other comprehensive chemistry course w/lab)*
  - Human Anatomy and Physiology I & II w/lab (BSC 2093/2094) or (BSC X085/X086) 6-8
  - General Microbiology (MCB 2020C) (MCB X010C) w/lab or any Microbiology course w/lab 4
  - Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course 3
  - Human Nutrition with Therapeutic Nutrition course 3

* The first semester of a two semester general chemistry course does not meet requirement.

### Note:

A grade of “C” (2.0) or better is required in all prerequisite courses.

### Honors

University Honors and Honors in the Major Available

### Tentative Course Schedule

#### First Semester

**Summer 13 hrs**

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<tr>
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**Fall 14 hrs**

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### Spring 15 hrs

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<td>NUR 4525L</td>
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<tr>
<td>NUR 3167</td>
<td>or</td>
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<tr>
<td>NUR 3XXX</td>
<td>Elective**</td>
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</table>

### Other

* Students without a research course on transcript must take NUR 3165
** Students may petition to waive elective requirements. Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course.

**NURSING (B.S.N.)**

### D. RN TO MSN OPTION

**College of Health and Public Affairs**

HPA 220, 407-823-2744

http://www.coopa.ucf.edu/nursing/

**Program Coordinator:** Linda Hennig

Accelerated program for students who are licensed as an RN and meet general education requirements, prerequisites, and required GPA.

Available for all tracks in the graduate program. Nursing Leadership and Management, Family Nurse Practitioner, Adult Nurse Practitioner, Pediatric Nurse Practitioner, Clinical Nurse Leader, Nurse Educator, and Clinical Nurse Specialist. (See UCF Graduate Catalog for current offerings.) Up to 15 credit hours may be applied toward meeting requirements of both BSN and MSN programs.

### Admission Requirements - Limited Access

- Acceptance to the university does not constitute admission to the RN-MSN program. Separate application to this limited access program must be made. Contact the School of Nursing or visit our website for application materials. All applicants must meet the following criteria:
  - Graduate of a state-approved or accredited associate degree or diploma nursing program
  - Licensure as an RN
  - Completion of UCF general education requirements or an AA degree from a Florida community college, including CLAST (or exempt)
  - Completion of prerequisites for the RN-BSN nursing program
  - Minimum cumulative GPA of 3.0.
  - A minimum combined GRE score of 900 on the verbal/quantitative exams.
  - Admitted to UCF undergraduate program
  - Three professional references
  - Resume
  - Letter of Intent

### Interim Requirements:

Maintain a Nursing GPA of 3.0

### Admission Requirements for Graduate Nursing Phase:

(To be met during the semester the BSN is awarded)

- Application to Graduate Studies
- Completion of all UCF School of Nursing coursework to date with a minimum GPA of 3.0
- An updated resume

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education requirements and the Common Program Prerequisites
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities
UCF Residency Requirement: 30 hours
The BSN is awarded after completion of 60 hours including specified program requirements
The MSN is awarded after program completion
The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

BSN Curriculum Changes for the RN to MSN Option:
- An individualized plan of study is developed for each student admitted to the RN to MSN option.
- Students take NUR 4836, Professional Development Seminar, to meet the requirements of NUR 4084, Transitional Concepts of Nursing II and NUR 3165, Critical Inquiry.
- Students take NGR 5800, Nursing Theory
- Students pursuing the MSN in the Nursing Leadership and Management Track may take the following courses:
  - NUR 4838L, Directed Practice in Nursing Administration for NUR 4812, Directed Nursing Practice
  - NGR 55720, Organizational Dynamics for NUR 4827, Leadership and Management Principles
  - NGR 5871, Health Care Informatics
  - NGR/HSA XXX, Graduate elective in area of concentration (e.g., nursing, health services administration for nursing elective)
- Students pursuing the MSN in the Nurse Practitioner or Clinical Nurse Specialist tracks may take the following courses:
  - NGR 5003 and NGR 5004L, Advanced Health Assessment, Health Promotion and Diagnostic Reasoning (for NUR 4812C)
  - NGR 5411, Pathophysiology
  - NGR XXX, Graduate elective in area of concentration

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      1. ENC 1101 & ENC 1102
      2. Select SPC 1600C 9 hrs
   B. Cultural Historical Foundations
      1. Select MAC 1105
      2. Select STA 2043
   C. Mathematical Foundations
      1. Select SYG 2000 or PSY 2012
      2. Select one: ECO 2013, or ECO 2023, or POS 2041
   D. Social Foundations
      1. Select SYG 2000 or PSY 2012
      2. Select one: ECO 2013, or ECO 2023, or POS 2041
   E. Science Foundations:
      1. Select SBC 2010C
      2. Select CHM 1032

2. Common Program Prerequisites (21 hrs)
   - PSY 2012, General Psychology** GEP
   - SYG 2000, Sociology** 3 hrs
   - MCB 2004C, Health Microbiology 4 hrs
   - CHM 1032L, General Chemistry and lab** GEP
   - ZOO 3723C, Human Anatomy* 4 hrs
   - PCB 3703C, Human Physiology 4 hrs
   - STA 2043 or 2023, Principles of Statistics** GEP
   - SOW 2014 or Assessing Human Development or 3 hrs
   - DEP 2004, Developmental Psychology 3 hrs
   - HUN 3011, Human Nutrition 3 hrs

*May take Anatomy and Physiology sequence of six-eight total credits.
**Also meets General Education Requirements.
 Applicants should see a UCF Nursing Advisor for possible course substitutions.

3. Core Requirements
   Courses vary by specific program tracks. Consult program advisor.

4. Upper Division Restricted Elective: none

5. Departmental Exit Requirements
   Completion of all courses in major with a grade of “B” (3.0) or better
   - UCF GPA of 2.5 or above
   - School of Nursing GPA of 2.5 or above

6. Electives: none

7. Foreign Language Requirements (0-8 hrs)
   Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam).
   Graduation: none

8. University Minimum Exit Requirements
   (For students exiting after earning BSN.)
   - A 2.0 UCF GPA and 2.5 Nursing Major GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required BSN 120 hours

Related Programs: Health Services Administration, all health programs
Related Minors: Aging Studies Certificate, Health Sciences, Health ServicesAdministration, Psychology
4945L) placements require an elective as a concurrent course.
Articulated A.S. to B.S. Programs

The University offers nine specialized degree programs for students who have graduated from a Florida Community College with an A.S. degree in one of the following nine programs: Applied Science, Criminal Justice, Electrical Engineering Technology, Business Administration, Hospitality Management, Computer Engineering Technology - Network Specialization, Liberal Studies, Nursing, and Radiologic Technology. Students who wish to transfer to UCF under the provisions of the statewide articulated A.S. to B.S. programs must meet specific criteria.

1. Students must graduate with the specific program and new A.S. in Fall 2000 or later, (Fall 2003 or later for Criminal Justice or Computer Engineering Technology) from a Florida public community college.

2. Students who have graduated with an A.S. prior to Fall 2000 are not eligible to participate in these programs. The new community college A.S. programs have slightly different requirements. Students who do not have the new A.S. should complete their general education at the community college and then transfer into the appropriate non-A.S. to B.S. program at UCF.

3. Students may only transfer from the specific major to the specific major; e.g., Business Administration to General Business. One cannot, for example, transfer an A.S. in Business Administration to a B.S. in Accounting under this agreement.

4. Students should write on the front of their application for admission to UCF, “A.S. - B.A./B.S.” designating their desire to participate in the articulation agreement.

5. UCF will allow students to complete the UCF required General Education courses at their community college while they are enrolled and working on their degree at UCF. However, students cannot be transient in their last 30 hours at UCF.

6. Students with Associate in Applied Science (AAS) degrees are not eligible for participation in these programs unless they also have the appropriate A.S. degree.

Applicants who qualify for this program are not guaranteed admission to the limited access programs in Nursing and Radiologic Sciences or programs that require specific grades in particular courses for admission.

Students should consult with their community college advisor when pursuing one of these programs to make sure they have met all of the appropriate requirements for the degree, including the necessary General Education courses and common program prerequisites.

Students are still required to complete all of the components of the Gordon Rule and CLAST prior to graduation from UCF. Students may be required to complete all common program prerequisites for these majors prior to enrollment in upper division course work. The total hours required for the General Education Program (GEP) will be 36 hours, excluding any necessary remediation.

Students admitted into these programs must meet the requirements as stated in the programs listed below. Students who change majors out of these programs must adopt the requirements of the most current catalog for the selected major, including the required UCF General Education Program.

Questions concerning the requirements of these majors should be referred to the appropriate academic department or the Director of Transfer Services, (407) 823-2231.

Applied Science (B.A.S.)

(A.S. to B.A.S.

(Completion Program for individuals who have a statewide articulated A.S. from a Florida public community college)

Office of Undergraduate Studies
Regional Campuses Administrative Offices
12201 Research Parkway, Suite 101
407-823-4547

http://www.regionalcampuses.ucf.edu/

Program Advisor: Judy Boyte; 407-317-7816

The Bachelor of Applied Science provides baccalaureate educational opportunities with a curriculum designed to develop competencies in organizational skills, management, and communication. The program is only available on UCF’s Cocoa, Daytona Beach, MetroWest and Sanford/Lake Mary campuses. Emphasis will also be placed on the development of skills in critical thinking, problem solving, and ethical decision-making.

Students are allowed to take lower level, general education classes at the campus in Orlando if necessary. If students wish to take an upper division course at the Orlando campus they should see a Regional Campuses' academic advisor. This will be allowed only on a very limited basis and under highly extenuating circumstances. If you have any questions regarding this policy or procedure, please contact the Director of Regional Campuses Advising at 407-823-1509.

Admission Requirements

Completion of an A.S. degree from a Florida public community college which included at least 15 hours of transferable general education courses. Other applicants will be given individual review.

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Students should maintain contact with an academic advisor.

1. UCF General Education Program

Students will take General Education courses as needed to complete the university’s 36 credit hour General Education requirement:

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs

2. Required Core

Choose one of the following nine programs:

A. Supervision and Administration Track: (18 hrs)
- INF 3004 Industrial/Organizational Psychology 3 hrs
- ISM 3011 Management Information Systems 3 hrs
- MAR 3023 Marketing 3 hrs
- GEB 3814 Essentials of Human Resource Management 3 hrs
- GEB 3815 Employee Training for Non-business Majors 3 hrs
- ACG 3082 Accounting for Non-business majors 3 hrs

B. Industrial Operations Track: (21 hrs)
- ETI 3116 Applied Quality Assurance 3 hrs
- ETI 3671 Technical Economics 3 hrs
- ETI 4186 Applied Reliability 3 hrs
- ETI 4635 Technical Administration 3 hrs
- ETI 4640 Operations Management for Technologists 3 hrs
- ETI 4448 Applied Project Management 3 hrs
- CET 3010 Introduction to Information Technology 3 hrs

NOTE: At the time the catalog went to press, tracks in Legal Studies, Criminal Justice and Hospitality Management were under review. Consult the program office for additional details.

5. Modern Language Requirement

(18 hrs)

NOTE: Students who have been placed into college-level courses as a result of the placement test or who have graduated from a Florida Community College with an A.S. degree in an appropriate major, may be allowed to substitute courses for the A.S. degree that are part of the modern language requirement after discussing this with the Regional Campuses Administrative Offices.

Admission Requirements

Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None
Articulated A.S. To B.S. Programs

**University Minimum Exit Requirements**
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 42 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of summer credit (if applicable)

**Total Semester Hours Required** 120 hrs

**Transfer Notes.**
- UCF will allow students to complete required UCF General Education courses at the community college while they are enrolled and working on their degree at UCF; however, students cannot be transient in their last 30 hours at UCF.
- Courses taken at community colleges do not substitute for upper division courses.
- All students seeking a baccalaureate degree from a State of Florida Institution are required to satisfy the CLAST requirement. Transfer students with more than 60 semester hours who have not taken the CLAST or who have not met the CLAST requirement may be admitted, but they must take the CLAST exam during their first semester at UCF.
- Orientation and advising are two of the most valuable tools that a student can use when transferring to UCF. Students should take advantage of both

**CRIMINAL JUSTICE (B.S.) A.S. to B.S. TRACK**
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

**College of Health and Public Affairs**
HPA1 311 407-823-2603
http://www.cohpa.ucf.edu/crim.jus/
Undergraduate Program Coordinator: Dr. Mary Ann Eastep
E-mail: cjadvise@mail.ucf.edu

**Admission Requirements**
Completion of a Statewide Articulated A.S. in Criminal Justice from a Florida public community college which is composed of 64 hours of course work, including at least 18 hours of transferable general education courses

**Degree Requirements**
- Students who change degree programs and select this major must adopt the most current catalog
- The courses designated in section 1 below may be taken at a Florida Community College
- Students must earn a minimum 2.0 GPA in the core requirements and the restricted electives.

1. **UCF General Education Program (36 hrs)**
   Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:
   - Communication Foundations
   - Cultural Historical Foundations
   - Mathematical Foundations
   - Social Foundations
   - Science Foundations

2. **Common Program Prerequisites**
   Completed as part of the approved A.S. program

3. **Core Requirements** (18 hrs)
   - CCJ 3024 Criminal Justice System 3 hrs
   - CCJ 3014 Crime in America 3 hrs
   - CJC 3510 Prosecution and Adjudication 3 hrs
   - CJC 3010 Corrections and Penology 3 hrs
   - CJE 4014 Police and Society 3 hrs
   - CCJ 4701 Research Methods in Criminal Justice 3 hrs

4. **Upper Division Restricted Electives** (30 hrs)
   - 27 additional semester hours of upper division CCJ course work.
   - Seniors can satisfy up to six hours of this requirement with internship and up to six hours with directed independent study; however, the combination of these non-class options shall not exceed nine hours. Program standards must be met to be eligible for either internships or independent study credit.
   - 3 additional semester hours of supporting courses to be selected with and approved by the student’s advisor. These courses may vary from student to student depending upon individual needs or objectives, but include selected courses from public administration, legal studies, sociology, statistics, and psychology.

5. **Upper Division Unrestricted Electives** none

6. **Departmental Exit Requirements (130 hrs)**
   Students must take a minimum of 36 hours from the department to obtain the UCF degree in Criminal Justice.

7. **Foreign Language Requirements**
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

8. **University Minimum Exit Requirements**
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required** 130 hours

**Related Programs:** Legal Studies
**Related Minors:** Legal Studies, Public Administration, Psychology

**ELECTRICAL ENGINEERING TECHNOLOGY (BSEET) A.S. to B.S.E.E.T. CONCENTRATION**
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

**College of Engineering and Computer Science**
Engineering Technology (ENT) Department
ENGR 207
Coordinator: Alireza Rahrooh
407-823-4749, Fax: 407-823-4746
E-mail: rahrooh@pegasus.cc.ucf.edu
Web Address: http://www.ent.ucf.edu

**Admission Requirements**
Completion of a Statewide Articulated A.S. in Electrical Engineering Technology from a Florida public community college which is composed of 64 hours of course work, including at least 22 hours of transferable General Education courses.

**Degree Requirements**
- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and
Articulated A.S. To B.S. Programs

upper level courses.

1. UCF General Education Program (14 hrs)
   A. Communication Foundations 3 hrs
   B. Cultural and Historical Foundations 3 hrs
   C. Mathematical Foundations 4 hrs
      1. Select MAT 2311 or MAC 2233
   D. Social Foundations (0 hrs)
   E. Science Foundations 3-4 hrs
      1. Select PHY 2048 or PHY 2053C
        Note: See PHY component under Section 2.

2. Common Program Prerequisites (CPP) (4-5 hrs)
   (C or better grades are required in all courses)
   MAC 2311 or MAC 2233
   MAC 2312 or MAC 2254 or equivalent
   PHY 2048 and PHY 2048L 1 hr, GEP
   or PHY 2053C GEP

3. Engineering Technology Core Requirements (18 hrs)
   (C or better grades are required in all courses.)
   ETG 3541 Applied Mechanics 3 hrs
   ETI 3651C Computer Applications 3 hrs
   ETI 3671 Technical Economic Analysis 3 hrs
   ETI 4635 Technology Administration 3 hrs
   ETI 3116 Engineering Quality Assurance 3 hrs
   ENC 3241 Technical Report Writing 3 hrs
   BSC 1050L or BSC 1050L 4 hrs

4. Upper Level Required Courses (21 hrs)
   (C or better grades are required in all courses)
   CET 3198C Digital Systems 3 hrs
   CET 3503 Microcomputer Technology I 3 hrs
   CET 4134C Microprocessor Electronics II 3 hrs
   EET 3716 Network Analysis 3 hrs
   EET 4158C Linear Int Circuits 3 hrs
   EET 4548 Power Systems 3 hrs
   EET 4732C Feedback Control Systems 3 hrs

5. Upper Level Technical Electives (6 hrs)
   (C or better grades are required in all courses)
   Select six hours from the following:
   CET 3144C Applied Microprocessor Technology 3 hrs
   CET 4134C Digital Programmable Devices 3 hrs
   CET 4333 Computer Organization & Design 3 hrs
   EET 4239C Communication Systems 3 hrs
   EET 4590C Digital Communications 4 hrs

6. Departmental Exit Requirement (3 hrs)
   ETG 4950C Senior Design Project 3 hrs
   A grade of 2.0 or better is required in all prerequisites.

7. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

8. University Minimum Graduation Requirements
   ■ A 2.0 UCF GPA
   ■ 60 semester hours earned after any CLEP award
   ■ 48 semester hours of upper division credit completed
   ■ 30 of the last 36 hours of course work must be completed in residence at UCF
   ■ A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits are permitted
   ■ Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 134 hrs

Related Programs: Electrical Engineering Technology (Electrical Systems Concentration).
Related Minors: none
Transfer Notes:
■ Students transferring from any Florida public institution with an A.A. or with the General Education Program (GEP) requirements of that institution meet have thereby satisfied UCF GEP requirements.
■ ENT Departmental Residency Requirements consist of at least 33 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

■ PHY 2048/L can substitute for PHY 2053C

Junior Year
Fall 13/14 hrs Spring 16 hrs
MAC 2253 Applied Calc I or 3/4 PHY 2064C/2049 w/ lab 4
MAC 2311 Calc w/Anl Geom I 3/4 ETG 3541 Applied Mechanics 3
ETI 3671 Tech Economic Analysis 3 CET 3198C Digital Systems 3
SPC 1600 Oral Communications 3 ETI 4635 Technical Administration 3
PHY 2053C/2048 Physics I 4 EET 3716 Network Analysis 3

Summer 10 hrs
ETI 3116 Appl Eng Quality Assurance 3
BSC 1005L or BSC 1050L Biology 4
Cultural/Historical Foundation 3

Senior Year
Fall 13 hrs Spring 12 hrs
EET 4548 Power Systems 3 EET 4732C Feedback Control Sys 3
EET 4158C Linear Int Cir 3 ETI 3651C Computer Applications 3
CET 3503 Microcomputer Tech I 3 ETG 4950C Sr Design Project 3
MAC 2312, 2254 or MAP 3401 4 ENC 3241 Writing Tech Pros 3
EIT 4227 Photonics Sensor 3

Summer 9 hrs
CET 4333 Comp Org & Design 3
CET 4134C Digital Program Devices 3
CET 4134C Microprocessor Elec II 3

GENERAL BUSINESS (B.S.B.A.)
A.S. to B.S. TRACK
(Completion program for individuals who have a statewide articulated A.S. in business administration from a Florida public community college)

College of Business Administration
BA 240, 407-823-2184
http://www.bus.ucf.edu
Faculty Advisor: B. Moore, BA 325, 407-823-5256

Admission Requirements
Completion of a Statewide Articulated A.S. in Business Administration from a Florida public community college which is composed of 64 hours of course work, including at least 24 hours of transferable General Education courses.

Degree Requirements
1. UCF General Education Program (12 hrs)
   Students will complete 12 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and may come from the following areas:
   A. Communication Foundations - Required SPC 1600
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
   D. Social Foundations
   E. Science Foundation

2. Common Program Prerequisites
   Must be completed with a “C” (2.0) or better.
   ACG 2021 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2013 Macroeconomics
   ECO 2023 Microeconomics
   MAC 2233 Concepts of Calculus
   STA 2023 Statistical Methods
   CGS 2100CC Computer Fundamentals for Business

3. Required for All Business Majors (30 hrs)
   First or subsequent semester in the College of Business Administration:
   GEB 2031, Cornerstone (Required in 1st or 2nd semester) 5 hrs
   GEB 3356 Introduction to International Business 3 hrs
   BUL 3130 Legal & Ethical Environments of Business 3 hrs
   ECO 3411 Quantitative Business Tools II 3 hrs
   FIN 3403 Business Finance 3 hrs
   MAN 3025 Management of Organizations 3 hrs
   ISM 3011 Essentials of Management Information Systems 3 hrs
   MAR 3023 Marketing 3 hrs
   Last Semester:
   MAN 4720 Strategic Management 3 hrs

4. Special college and/or department requirements:

300  UNIVERSITY OF CENTRAL FLORIDA  2006-2007 Undergraduate Catalog
Articulated A.S. To B.S. Programs

- Students who change degree programs and select another major must adopt the most current catalog.
- Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- Students wanting to major in General Business must apply for admission to the major.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must have at least a 2.0 GPA in the major and COB. Students majoring in General Business must earn a grade of "C" (2.0) or better in each course applied toward the major.

5. Second Level Core (5 courses):
   Students must take one course from each of the following areas: Accounting (must take ACG 3131), Economics (must take ECP 4703), Finance, Management, and Marketing. These five courses are restricted to the courses listed below:

- Accounting: ACG 3101 Intermediate Accounting I
- Economics: ECP 4703 Managerial Economics
- Finance: FIN 3303 Financial Markets
- Management: MAN 4240 Organizations: Theory and Behavior
- Marketing: MAR 3403 Sales Force Management

6. 4000 Level Requirement:
   At least two of the second level courses must be at the 4000 level.

7. A.S. Transfer Classes
   Twelve credit hours taken under the A.S. to B.S. agreement will be counted toward the degree.

8. Foreign Language Requirements (0-8 hrs)
   **Admission:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   **Graduation:** none

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after any CLEP award
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF
   - A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
   - Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

10. Electives*** (variable)
    Must be outside the College of Business

Total Semester Hours Required: 132 hours

**Community College Transfer Notes**

- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a computer fundamentals for business class. At UCF Business, students who have completed the calculus and statistics class will be waived from Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

***General electives as required to reach 132 semester hours.

**HOSPITALITY MANAGEMENT (B.S.)**

**A.S. to B.S. TRACK**

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

**Rosen College of Hospitality Management**

9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

**Admission Requirements**

Completion of a Statewide Articulated A.S. in Hospitality Management from a Florida public community college which is composed of 64 hours of course work, including at least 18 hours of transferable general education courses.

**Degree Requirements**

1. UCF General Education Program (GEP) (18 hrs)
   Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:
   - A. Communication Foundations
   - B. Cultural and Historical Foundations
   - C. Mathematical Foundations
   - D. Social Foundations
   - E. Science Foundation

2. Common Program Prerequisites (3 hrs)
   HFT 1000 Introduction to Hospitality Management 3 hrs

3. Hospitality Management Core (27 hrs)
   - CGS 2100CC Computer Fundamentals of Business
   - or STA 2023 Statistical Methods I
   - ECO 2053 Microeconomics
   - or ECO 2023 Microeconomics
   - MAC 1105 College Algebra
   - HFT 3850 Guest Services Management 3 hrs
   - HFT 3431 Hospitality Managerial Accounting 3 hrs
   - HFT 4295 Leadership and Strg Mgmt in Hospitality Industry 3 hrs
   - HFT 4286 Hospitality Communications 3 hrs
   - HFT 2462 Hospitality Industry Finance 3 hrs
   - HFT 4941 Internship II 1 hr
   - HFT 4944 Internship III 1 hr
   - HFT 3933 Distinguished Lectures in Hosp. Mgt. 1 hr

Select 3 of the following 4 courses to complete the core
   - HFT 3700 Tourism Management 3 hrs
   - HFT 3261 Restaurant Management 3 hrs
   - HFT 3273 Principles of Resort Time Sharing 3 hrs
   - HFT 4755 Theme Park and Attraction Mgmt 3 hrs

4. Special School Requirements:
   - Grades of "C-" (1.75) or below do not transfer into the Hospitality Management core or restricted electives.
   - It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student's responsibility for dropping courses they do not intend to complete.
   - Final exams will be given during Exam Week only.

5. Restricted Electives (15 hrs)
Articulated A.S. To B.S. Programs

Students must take 15 credit hours of Hospitality Management courses from the following list for the Generalist track. Alternatively, students may choose one of the six specialized career tracks as outlined below.

A. Generalist Track

(15 hrs)

Select five advanced courses from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 3313</td>
<td>Hospitality Physical Plant Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4343</td>
<td>Hospitality Facilities Planning &amp; Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4298</td>
<td>Hospitality Business Consulting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4773</td>
<td>Hotel Development Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3785</td>
<td>Management of Gaming Enterprises</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3807</td>
<td>Multi-Unit Food Service Organizations</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4861</td>
<td>Beverage Management</td>
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<td>FSS 4024</td>
<td>Supply and Procurement Management</td>
<td>3 hrs</td>
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<td>FSS 4135</td>
<td>Corporate Contract &amp; Managed Services Orgs</td>
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<tr>
<td>FSS 3232C</td>
<td>Intermediate Techniques of Food Production</td>
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<td>FSS 4268C</td>
<td>Catering and Banquet Organization</td>
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<td>HFT 4753</td>
<td>Convention &amp; Conference Services</td>
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<td>Exhibit &amp; Trade Show Operations</td>
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<td>HFT 4735</td>
<td>Tourism Geography</td>
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<td>HFT 4722</td>
<td>Travel Agency Management</td>
<td>3 hrs</td>
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<td>HFT 4762</td>
<td>Current Practices in the Airline Industry</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4275</td>
<td>Development of Vacation Ownership Resorts</td>
<td>3 hrs</td>
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<td>HFT 3741</td>
<td>Meeting Management</td>
<td>3 hrs</td>
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<tr>
<td>HFT 3757</td>
<td>Event Management</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4066</td>
<td>Restaurant Brand Management</td>
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<td>HFT 4268</td>
<td>Case Studies in Restaurant Management</td>
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<td>HFT 4844</td>
<td>Sanitation Mgt in Foodservice Industry</td>
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<td>HFT 4274</td>
<td>Vacation Ownership Resort Management</td>
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<td>HFT 4522</td>
<td>Vacation Ownership Resort Sales Tactics and Strategies</td>
<td>3 hrs</td>
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<td>HFT 4442</td>
<td>Vacation Ownership Resort Reservations/ Data Base Systems</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4759</td>
<td>Product Development in Theme Parks and Attractions</td>
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<td>HFT 4758</td>
<td>Contemporary Issues in the Theme Park and Attraction Industry</td>
<td>3 hrs</td>
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<td>HFT 4532</td>
<td>Managing the Employee Experience in Theme Parks and Attractions</td>
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<tr>
<td>HFT 4269</td>
<td>Case Studies in Multi-Unit Restaurant Mgmt</td>
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<td>HFT 4453</td>
<td>Food, Beverage and Labor Cost Controls</td>
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<td>HFT 4432</td>
<td>Hospitality Industry Auditing</td>
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<td>HFT 4413</td>
<td>Technology Applications for Management</td>
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<tr>
<td>HFT 4253</td>
<td>Hotel Operations</td>
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<tr>
<td>FSS 3008</td>
<td>Culture and Cuisine</td>
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<td>HFT 3784</td>
<td>Amusement Technology</td>
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<td>HFT 3802</td>
<td>Catering Management</td>
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<tr>
<td>HFT 3710</td>
<td>Cruise Line Operations and Management</td>
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<td>HFT 3574</td>
<td>Food Service Marketing Advertising and Promotion Management</td>
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<td>Franchising in the Restaurant Management</td>
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<td>HFT 3610</td>
<td>Law and Restaurant Management</td>
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<td>Multi Media Applications in Exhibitions</td>
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<td>HFT 3834</td>
<td>Topics in Restaurant and Foodservice Mgt</td>
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<tr>
<td>HFT 4375</td>
<td>Advanced Trade Show Management</td>
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<tr>
<td>HFT 4864</td>
<td>Anheuser Busch Seminar in Quality</td>
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<tr>
<td>HFT 4425</td>
<td>Financial Analysis for Restaurant Managers</td>
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<tr>
<td>HFT 4786</td>
<td>Managing the Guest Experience in Theme Park and Attractions</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4787</td>
<td>Operational Issues in the Theme Park and Attraction Industry</td>
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<td>HFT 4281</td>
<td>Restaurant Leadership Strategies and Tactics</td>
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<td>HFT 4645</td>
<td>Restaurant Real Estate, Site Selection and Modeling</td>
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<tr>
<td>HFT 4277</td>
<td>Yacht, Country, and City Club Management</td>
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<td>HFT 3285</td>
<td>International Restaurant Corporate Mgmt</td>
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<tr>
<td>HFT 3511</td>
<td>Convention and Conference Sales</td>
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<td>HFT 3515</td>
<td>Reservations Sales &amp; Marketing</td>
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<tr>
<td>HFT 4284</td>
<td>Training and Performance in the Food Svc Ind</td>
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<td>HFT 4795</td>
<td>Entertainment Arts and Events</td>
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<td>HFT 4866C</td>
<td>Exploring Wines of the World</td>
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<td>HFT 3868</td>
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<td>HFT 4894</td>
<td>International Gastronomy</td>
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<td>HFT 3512</td>
<td>Event Promotion</td>
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<td>HFT 3787</td>
<td>Hospitality and Event Risk Management</td>
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</tr>
<tr>
<td>HFT 3785</td>
<td>Management of Gaming Enterprises</td>
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<tr>
<td>HFT 3792</td>
<td>Event Design and Production</td>
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<td>HFT 3798</td>
<td>Fairs and Festivals</td>
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<tr>
<td>HFT 4255</td>
<td>Advanced Hotel Development</td>
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<td>HFT 4298</td>
<td>Hospitality Business Consulting</td>
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<td>HFT 4561</td>
<td>Destination Marketing</td>
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<tr>
<td>HFT 4791</td>
<td>Event Management II</td>
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<tr>
<td>HFT 4796</td>
<td>International Events</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4865</td>
<td>Advanced Wine Management</td>
<td>3 hrs</td>
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B. Event Management Track – Choose 5 Courses (15 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 4753</td>
<td>Convention and Conferences Services</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4754</td>
<td>Exhibit &amp; Trade Show Operations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3802</td>
<td>Catering Management</td>
<td>3 hrs</td>
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<td>HFT 3741</td>
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<td>Convention and Conference Sales</td>
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<tr>
<td>HFT 4795</td>
<td>Entertainment Arts and Events</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4375</td>
<td>Advanced Trade Show Management</td>
<td>3 hrs</td>
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C. Vacation Ownership Resort Management Track (15 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>HFT 4275</td>
<td>Development of Vacation Ownership Resorts</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4274</td>
<td>Vacation Ownership Resort Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4522</td>
<td>Vacation Ownership Resort Sales Tactics and Strategies</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4442</td>
<td>Vacation Ownership Resort Reservations/ Data Base Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4343</td>
<td>Hospitality Facilities Planning &amp; Design</td>
<td>3 hrs</td>
</tr>
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</table>

D. Theme Park and Attraction Mgmt Track – Choose 5 Courses (15 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 4786</td>
<td>Managing the Guest Experience in Theme Parks and Attractions</td>
<td>3 hrs</td>
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<td>HFT 4759</td>
<td>Product Development in Theme Parks and Attractions</td>
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<td>HFT 4758</td>
<td>Contemporary Issues in the Theme Park and Attraction Industry</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4532</td>
<td>Managing the Employee Experience in Theme Parks and Attractions</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4442</td>
<td>Vacation Ownership Resort Reservations/ Data Base Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4433</td>
<td>Hospitality Facilities Planning &amp; Design</td>
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<tr>
<td>HFT 4473</td>
<td>Hotel Development Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4253</td>
<td>Hotel Operations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3515</td>
<td>Reservations Sales &amp; Marketing</td>
<td>3 hrs</td>
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</table>

E. Tourism Management Track (15 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 4735</td>
<td>Tourism Geography</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4722</td>
<td>Travel Agency Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4762</td>
<td>Current Practices in the Airline Industry</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4754</td>
<td>Exhibit &amp; Trade Show Operations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3757</td>
<td>Event Management</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

F. Lodging Management Track (15 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 3313</td>
<td>Hospitality Physical Plant Management</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4343</td>
<td>Hospitality Facilities Planning &amp; Design</td>
<td>3 hrs</td>
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<td>HFT 4473</td>
<td>Hotel Development Analysis</td>
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<tr>
<td>HFT 4253</td>
<td>Hotel Operations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3515</td>
<td>Reservations Sales &amp; Marketing</td>
<td>3 hrs</td>
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G. Hospitality Financial Management and Technology (15 hrs)

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>HFT 4442</td>
<td>Vacation Ownership Resort Reservations/ Data Base Systems</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4473</td>
<td>Hotel Development Analysis</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4533</td>
<td>Food, Beverage and Labor Cost Controls</td>
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<td>HFT 4432</td>
<td>Hospitality Industry Auditing</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4413</td>
<td>Technology Applications for Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4522</td>
<td>Vacation Ownership Resort Sales Tactics and Strategies</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

6. Foreign Language Requirements (0-8 hrs)

State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

7. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 42 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable)

8. Electives (variable)

9. Cooperative Education (0 hrs)

500 hours of supervised work experience
Total Semester Hours Required: 124 hours

Community College Transfer Notes:
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Rosen College of Hospitality Management.
- ACG X001 and X011 will substitute for HFT 2403 at UCF.
- Florida public community college students are encouraged to complete the General Education requirements prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the Hospitality major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.
- The College may allow substitutions for Hospitality classes taken at the community college. Students should check with the Rosen College of Hospitality Management College for approval of substitutions.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

A.S. to B.S. TRACK

(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

Cooperative Engineering and Computer Science Engineering Technology (ENT) Department

Coordinator: Bahman Motlagh

Admission Requirements:
Students will be admitted to the program with an Associate in Science degree in Computer Engineering Technology Network Specialization. Students admitted under this articulated agreement will be required to satisfy the General Education requirements either at UCF or the courses may be taken at a community college. When applying for admission students need to make sure they indicate on the application form AS-BS IST.

Degree Requirements:
- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
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<td>(nine hours completed in AS degree program)</td>
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<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>(3 hrs taken in AS degree program)</td>
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<tr>
<td>C. Mathematical Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>(completed in AS degree program)</td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
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2. Lower Level Required Courses Taken at Community College

<table>
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<tr>
<th>Course</th>
<th>Credits</th>
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<tbody>
<tr>
<td>1. UCF General Education Program</td>
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3. Information Systems Technology Core Courses

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<tr>
<td>EET 3651C</td>
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<tr>
<td>CET 3010</td>
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<td>STA 2023</td>
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<td>EET 4448</td>
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<td>ENC 3241</td>
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<td>EET 3985C</td>
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<td>CET 3323C</td>
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<td>CET 2364</td>
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4. Required Technical Courses

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5. Technical Electives

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6. Departmental Exit Requirements

7. Foreign Language Requirements

8. Approved Technical Electives

9. University Minimum Graduation Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hrs

Related Programs: Security Computing and Networks

Related Minors: none

Transfer Notes:
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

Tentative Course Schedule for Transferring Students

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Junior Year

Fall 14 hrs
ETI 3651C Computer Appl 3
CET 3323C Digital Tech 3
CET 3010 Intro to Info Tech 3
ET 3085C Elect & Electronics 4

Spring 12 hrs
CET 4483 Local Area Network 3
EET 3085C Computer Appl 3
Tech Elective 3
CET 2364 Systems Apps in C 3
STA 2023 3

UCF
Articulated A.S. To B.S. Programs

Summer 9 hrs
CET 4333 Comp Org & Design 3
ENC 3241 Tech Rep Writing 3
ETI 4448 Applied Proj Mgmt 3
Senior Year 12 hrs
Fall 12 hrs
CET 4505 Appl Oper Sys I 3 Tech Elective 3
CET 4427 Appl Database I 3 CET 4483 Intro to Local Area Net 3
CET 3752 Intro to Telephony 3 Tech Elective 3
CET 4748 Wide Area Networks I 3 Tech Elective 3

LIBERAL STUDIES (B.S.)
A.S. TO B.S. TRACK
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)
Office of Undergraduate Studies
Office of Liberal and Interdisciplinary Studies
CL-I, Room 302; http://liberalstudies.info
The program is administered through the Office of Liberal and Interdisciplinary Studies in the Office of Undergraduate Studies and is designed for academic flexibility. It recognizes that there are many combinations of courses that meet the needs of individual students.

Admission Requirements
Completion of an A.S. degree from a Florida public community college that is composed of (at least) 60 credit hours of course work, including at least 18 hours of transferable general education courses.

Degree Requirements
- Students who change degree program and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas
- Non-approved independent studies will not be counted towards the major

Students must earn at least a "C" (2.0) in each restricted elective course
- Students must consult with a Liberal Studies advisor to enter the program
- No courses can count in more than one subject area or in a subject area and a minor
- Students wishing to earn a Liberal Studies degree as a double degree, major or second degree, must complete all fifty-four credits exclusive of credits done for the other degrees and/or major(s), including any minors associated with that degree
- Students must complete a minimum of 60 credit hours at UCF (including up to 18 hours to complete the GEP, 18 upper level hours in one area of restricted electives, and 30 upper level credits in a minor and elective hours)

1. UCF General Education Program (GEP) (18 hrs)
Students will complete 18 hours of selected General Education courses at UCF. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:
- Communication Foundations
- Cultural and Historical Foundations
- Mathematical Foundations
- Social Foundations
- Science Foundation

2. Common Program Prerequisites
- none

3. Restricted Electives (36 hrs)
- Students must complete one subject area concentration of eighteen upper-level credit hours from among those specified below
- Students must have sufficient work in the community college for a second subject area concentration of eighteen credit hours as determined by the Liberal Studies office
- Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses). Courses are considered approved only when they have been reviewed by a Liberal Studies advisor and not simply when they appear on a student audit
- Students are required to take a minimum of 18 UCF hours, as well as 18 upper-division hours, in the two areas combined
- See the Liberal Studies Advising Team for details regarding each area:
  - Commerce
  - Computer Science
  - Education
  - Engineering
  - Health and Biomedical Sciences
  - Natural Sciences
  - Public Affairs*

4. Required Minor (18 hrs min)
Students must complete a minor from those offered at UCF that qualify in the B.S. area. A list of these minors is available in the Liberal Studies office as part of the A.S. to B.S. degree advising sheet. The minor cannot overlap with the two subject areas. The minimum number of credit hours for a minor is eighteen at the upper level. The minor degree audit must be approved by, and completion of the minor certified by, the department offering the minor.

5. Program Exit Requirements
A grade of “C” or above (2.0) is required for each course taken in each of the subject areas, including those at the community college

6. Foreign language Requirements
Admission-BS: Two years high school or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation-BS: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement. Note: Students entering without having met the admission requirements must do so in order to graduate.

7. Electives (variable)
Select from upper level courses, with Liberal Studies advisor’s approval.

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Computer In formation Technology Track, Liberal Arts Track, Environmental Studies Track, Women’s Studies Track
Related Minors: most UCF minors
Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

304 UNIVERSITY OF CENTRAL FLORIDA
2006-2007 Undergraduate Catalog
NURSING (B.S.N.)

E. A.S. TO B.S.N. TRACK
(Completion program for individuals who have a statewide articulated A.S. Nursing degree from a Florida public community college)

College of Health and Public Affairs
HPA 220, 407-823-2744
http://www.cohpa.ucf.edu/nursing/
RN-BSN Coordinator: Linda Hennig
E-mail: ucfnurse@mail.ucf.edu

Admission Requirements - Limited Access
Acceptance to the university does not constitute admission to the upper division nursing program. Separate application to the limited access program must be made directly to the School of Nursing. All applicants must have:

- A minimum overall GPA of 2.5
- Completion of a Statewide Articulated A.S. in Nursing from a Florida public community college which is composed of 72 hours of course work, including at least 18 hours of transferable General Education courses (graduation 12/00 or later)
- Current RN License or license eligible

Degree Requirements
- Completion of all common program prerequisite courses with at least a grade of “C” (2.0) or better
- Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors
- The courses designated in sections 1 and 2 below may be taken at a Florida community college or other universities and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the Nursing Major are required for continuation in and graduation from the Nursing Program
- UCF Residency Requirement: 32 hours

1. UCF General Education Program (18 hrs)
Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with 18 hours of General Education courses completed as part of the articulated A.S.

Student must complete all General Education and foreign language admissions requirements prior to NUR 4084. Students completing the General Education requirements at a Florida community college must complete those courses prior to their last 30 hours at UCF.

UCF General Education Program (36 hrs)

A. Communication Foundations
1. ENC 1101 & ENC 1102 9 hrs
2. Prefer SPC 1600

B. Cultural Historical Foundations
1. Select MAC 1105 6 hrs
2. Select STA 2014C

C. Mathematical Foundations
1. Select SYG 2000 6 hrs
2. ECO 2013, ECO 2023 or POS 2041

E. Science Foundations:
1. Select BSC 2010C or CHM 1032L or CHM 1033L – General Chemistry & Lab 6 hrs
2. OR Anatomy & Physiology I & II
3. OR ZOO 3733C & PCB 3703C, Human Anatomy & Physiology

2. Common Program Prerequisites (21 hrs)

PSY 2012 General Psychology** 4 hrs
SYG 2000 Sociology** 4 hrs
MCB 2004C Health Microbiology 4 hrs
CHM 1032L General Chemistry and Lab** 4 hrs
ZOO 3733C Human Anatomy* 4 hrs
PCB 3703C Human Physiology* 4 hrs
STA 2014C Principles of Statistics** 4 hrs
or 2023 Statistical Methods I 4 hrs
or DEP 2004 Developmental Psychology 4 hrs

HUN 301L Human Nutrition 3 hrs

**May take Anatomy and Physiology sequence of six-eight total credits.

Also meets General Education Requirements.

See a UCF Nursing advisor for possible course substitutions.

RADILOGIC SCIENCES (B.S.)
A.S. TO B.S. TRACK
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Health and Public Affairs
HPA 210, 407-823-2747
Undergraduate Program Director: Thomas Edwards
E-mail: edwardsd@mail.ucf.edu
http://www.cohpa.ucf.edu/health/pro/radtransfer.cfm

Admission Requirements - Limited Access
Acceptance to the university does not necessarily constitute admission to the upper division Radiologic Sciences Program. Separate application to the limited access program must be made directly to the program.

- Criminal history information (background check) must be submitted. For Florida residents the criminal history must be certified by the Florida Department of Law Enforcement (FDLE).
- A personal interview is also required.

3. Core Requirements (55 hrs)

NUR 3805 Transitional Concepts in Nursing I 3 hrs
NUR 3065L Health Assessment 2 hrs
NUR 3065L Health Assessment Lab 1 hrs
NUR 3165 Nursing Research/Critical Inquiry 3 hrs
NUR 4084 Transitional Concepts in Nursing II 3 hrs
NUR 4636 Community as Continuum of Care 3 hrs
NUR 4636L Clin Prac in Comm-Oriented Nursing 2 hrs
NUR 4827 Leadership and Management Principles 3 hrs
NUR 4837 Health Care Issues, Policy, & Econ 3 hrs
NUR 4812 Directed Nursing Practice 4 hrs
NUR 4837 Health Care Issues, Policy, & Econ 3 hrs
NUR 4812 Directed Nursing Practice 4 hrs
NUR 4837 Health Care Issues, Policy, & Econ 3 hrs
NUR 4812 Directed Nursing Practice 4 hrs

4. Restricted Elective (3 hrs)

NUR 3837 Community Nurse in Practice 3 hrs

5. Departmental Exit Requirements
Completion of all courses in major with a grade of “C” (2.0) or better
- UCF GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

6. Electives variable

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA and a 2.5 Nursing Major GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, and the CLAST (or exemption)

Total Semester Hours Required 128 hours

Related Programs: Health Services Administration, Social Work, all health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

Progression requirements:
Prior to NUR 3805:
- RN status or eligible to take NCLEX.
- Prior to NUR 3165:
  - Complete NUR 3805 and Statistics course with grade of “C” (2.0) or better
- Prior to NUR 4084:
  - Be admitted to the Nursing program
  - Complete General Education requirements from a Florida state community college or university (SUS)
  - Complete CLAST (or exemption)
  - Complete foreign language admission requirement
Articulated A.S. To B.S. Programs

A program from a Florida public community college that is composed of a minimum of 62 hours of course work, including at least 15 hours of transferable General Education courses. Students certified in radiography and in good standing with the American Registry of Radiologic Technologists (ARRT) who have not completed a Statewide Articulated A.S. in Radiography program from a Florida Public Community College may apply for admission but are not eligible to transfer to UCF under the provisions of the statewide articulation agreement.

- All applicants must have a minimum overall GPA of 2.5, and complete all program prerequisite courses with at least a grade of "C" (2.0).
- Students must be certified in radiography and be in good standing with the American Registry of Radiologic Technologists (ARRT).

Degree Requirements

- Students should consult with a departmental advisor.
- Many of the courses designated in sections 1 and 2 below may be taken at a Florida community college, and should usually be completed in the first 60 hours.
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program.
- UCF residency requirement for Radiography: 33 hours

1. UCF General Education Program (21 + 1 hrs)
   A. Communication Foundations
      - Select ENC 1102 and SPC 1600 or SPC 1016
   B. Cultural Historical Foundations
      - Select ECO 2013 or ECO 2023 or POS 2041
   C. Mathematical Foundations
      - MAC 1105 (Completed at CC)
      - MAC 1105 from any other institution
   D. Social Foundations
      - Select ECO 2013 or ECO 2023 or POS 2041
   E. Science Foundations
      - Select PHY 2053 or 2054

2. Common Program Prerequisites (4 hrs)
   A. Introduction to Computer Science (CC)
   B. Human Physiology (CC)
   C. College Physics I (UCF GEP)
   D. Human Anatomy (CC)
   E. College Algebra (CC)

CC courses completed as part of the approved A.S. program GEP and core courses with the exception of PHY 2053 and 2054.

* See Transfer Notes

3. Core Requirements (33 hrs)
   A.S. transfer students will not be required to complete all of the core courses listed below. Specific core course requirements will be based on allowable course transfers and career goals.

**Junior Level**

- RTE 3000 Introduction to Radiologic Sciences 3 hrs
- RTE 3111C Introduction to Patient Care 2 hrs
- RTE 3503C Radiographic Procedures I 3 hrs
- RTE 3116 Advanced Patient Care 3 hrs
- RTE 3418C Principles of Radiographic Exposure I 3 hrs
- RTE 3930 ST: Clinical Education I 2 hrs
- RTE 3513C Radiographic Procedures II 3 hrs
- RTE 3457C Principles of Radiographic Exposure II 3 hrs
- RTE 3684C Physics of Image Production 2 hrs
- RTE 3308 Medical Physics 3 hrs
- STA 2023 Statistical Methods I 3 hrs
- HSC 4550 Pathophysiology 3 hrs
- RTE 3930 ST: Clinical Education II 4 hrs

Senior Level

- RTE 4563 Special Radiographic Procedures 2 hrs
- RTE 4782 Pathophysiology 2 hrs
- RTE 4932 ST: Clinical Education III 5 hrs
- RTE 4573 Advanced Imaging Modalities 3 hrs
- RTE 4XXX Computed Tomography Protocols or RTE 4XXX Mag Resonance Imaging Protocols 1 hr
- RTE 4762 Anatomy for the Medical Imager 3 hrs
- RTE 4206 Leadership in Radiologic Sciences 3 hrs
- RTE 4932 ST: Advanced Clinical Practicum 4 hrs

Core course requirements will include PHY 2054C. Additional core course requirements will be determined during advisement.

5. Program Exit Requirements (124 hrs)
   A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program.

6. Electives
   none

7. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

8. University Minimum Exit Requirements
   - An overall GPA of 2.5
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)
COMMON COURSE NUMBERING SYSTEM

Classification of Courses
The University course numbering system is as follows:

0-0999 Subcollegeate level and not counted in meeting degree requirements.
1000-2999 Freshman and sophomore level courses and are designed primarily for these students.
3000-4999 Junior- and senior-level courses (Upper-division). These courses contain advanced undergraduate level material and are designed primarily for undergraduate juniors and senior.
5000-5999 Beginning graduate and advanced undergraduate level courses. These courses provide more advanced material than that found in undergraduate courses. They are designed primarily for beginning graduate students, but may be suitable for some advanced undergraduate seniors. They are open for registration to all graduate students and those seniors who receive approval of the appropriate Dean(s).
6000-6999 Advanced graduate level courses. These courses are designed to build upon the beginning graduate level courses and to deliver more advanced content and experiences. They are open only to graduate students. (Seniors, within nine hours of graduation that have a minimum 3.0 GPA and do not register for more than twelve hours may request college permission to take a 6000-level class.) Students in 3+2 programs (combined bachelor’s and master’s programs) should check with their adviser before registering for 6000-level courses.
7000-7999 Doctoral-level courses. These courses provide material at the most advanced graduate level. They are restricted to admitted doctoral students only.

Florida’s Statewide Course Numbering System
Courses in this catalog are identified by prefixes and numbers that were assigned by Florida's Statewide Course Numbering System. This common numbering system is used by all public postsecondary institutions in Florida and by participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "statewide course details."

General Rule for Course Equivalencies
Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions. (Exceptions are listed below.)

For example, a survey course in social problems is offered by 35 different postsecondary institutions. Each institution uses "SYG_010" to identify its social problems course. The level code is the first digit and represents the year in which students normally take the course at a specific institution. In the SCNS taxonomy, "SYG" means "Sociology, General," the century digit "0" represents "Entry-level General Sociology," the decade digit "1" represents "Survey Course," and the unit digit "0" represents "Social Problems."

In science and other areas, a "C" or "L" after the course number is known as a lab indicator. The "C" represents a combined lecture and laboratory course that meets in the same place at the same time. The "L" represents a laboratory course or the laboratory part of a course, having the same prefix and course number without a lab indicator, which meets at a different time or place.

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 1010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 1010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

The Course Prefix
The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

Authority for Acceptance of Equivalent Courses
Section 1007.24(7), Florida Statutes, states:
Any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the appropriate statewide course numbering system faculty committees representing school districts, public postsecondary educational institutions, and participating nonpublic postsecondary educational institutions to be academically equivalent to courses offered at the receiving institution, including equivalency of faculty credentials, regardless of the public or nonpublic control of the previous institution. The Department of Education shall ensure that credits to be accepted by a receiving institution are generated in courses for which the faculty possess credentials that are comparable to those required by the accrediting association of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency
The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution:

Courses in the x900-x999 series (e.g., ART 2905)
- Internships, practica, clinical experiences, and study abroad courses
- Performance or studio courses in Art, Dance, Theater, and Music Skills courses in Criminal Justice
- Graduate courses
- Courses not offered by the receiving institution
- For courses at non-regionally accredited institutions, courses offered prior to the transfer date of the course

College preparatory and vocational preparatory course may not be used to meet degree requirements and are not transferable.

Transfer of any successfully completed course from one institution to another is guaranteed in cases where the course to be transferred is equivalent to one offered by the receiving institution. Equivalencies are established by the same prefix and last three digits and comparable faculty credentials at both institutions. For example, SYG 1010 is offered at a community college. The same course is offered at a state university as SYG 1010. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 1010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

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- Graduate courses
- Courses not offered by the receiving institution
- For courses at non-regionally accredited institutions, courses offered prior to the transfer date of the course

College preparatory and vocational preparatory course may not be used to meet degree requirements and are not transferable.

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to Dr. David Dees, Assistant Dean of Undergraduate Studies, Academic Services, Millican Hall 210, University of Central Florida, 4000 Central Florida Parkway, Orlando, FL 32816, or the Florida Department of Education, Office of Articulation, 1401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at (850) 245-0427 or SunCom 205-0427.
## Example of Course Identifier

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<th>Level Code (first digit)</th>
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Sociology/Freshman level
General level at this entry-level General institution Survey Course Social Problems No laboratory component in this course

### ABE
Agricultural and Biological Engineering

### ACG
Accounting: General

### ACO
Accounting: Occupational/Technical Variable Paced

### ACR
HVACR: Heating/Ventilation/Air Conditioning/Refrigeration

### ADE
Adult Education

### ADV
Advertising

### AEB
Agricultural Economics and Business

### AEE
Agriculture and Extension Education

### AER
Automotive Mechanics

### AFA
Afro-American Studies

### AFH
African History

### AFR
Aerospace Studies

### AGR
Agronomy

### AKB
Akron

### ALS
Agriculture and Life Sciences

### AMH
American History

### ALM
American Literature

### AMS
American Studies

### AMT
Aviation Maintenance Technology

### ANG
Anthropology - Graduate

### ANS
Animal Science

### ANT
Anthropology

### AOM
Agricultural Operations Management

### APA
Applied Accounting

### ARA
Arabic Language

### ARC
Architecture

### ARO
Architectural Design

### ARE
Art Education

### ART
Art

### ARV
“Art, Vocational"

### ASC
Aviation Science: General

### ASG
Animal Science: General

### ASH
Asian Studies

### ASN
Asian Studies

### AST
Astronomy

### ATE
Animal Science Technology

### ATF
Aviation Technology: Flight

### ATT
Aviation Technology: Theory

### AVM
Aviation Management

### AVS
Avionsics

### AYM
Aymara Language

### BAN
Commercial Banking

### BCA
Building Construction Apprenticeships

### BCC
Basic Clinical Clerkships (Required)

### BCH
Biochemistry (Biophysics)

### BCA
Building Construction

### BCT
Building Construction Trades

### BCC
Building Construction: Vocational

### BME
Biomedical Engineering

### BMS
Basic Medical Sciences

### BOT
Botany

### BRC
Banking Related courses (not AIB or IFE)

### BSC
Biological Sciences

### BTE
Business Teacher Education

### BUL
Business Law

### CAP
Computer Applications (for Computer Scientists)

### CAS
Clinical Audiology and Speech Language Pathology

### CAT
CAT

### CBB
Comparative Psychology and Animal Behavior

### CCE
Civil Construction Engineering

### CCJ
Criminology and Criminal Justice

### CDA
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Biological Sciences

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Business Teacher Education

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Business Law

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Biological Sciences

### BTE
Business Teacher Education

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Business Law

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Computer Design/Architecture

### CDA
Computer Applications (for Computer Scientists)

### BRC
Banking Related courses (not AIB or IFE)

### BSC
Biological Sciences

### BTE
Business Teacher Education

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Business Law

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Computer Applications (for Computer Scientists)

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Clinical Audiology and Speech Language Pathology

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Computer Design/Architecture

### CDA
Computer Applications (for Computer Scientists)
<table>
<thead>
<tr>
<th>Code</th>
<th>Program</th>
<th>Code</th>
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<tbody>
<tr>
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<td>Latin American History</td>
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<td>Forestry</td>
<td>LAS</td>
<td>Latin American Studies</td>
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<td>Food Science</td>
<td>LAT</td>
<td>Latin Language (Study)</td>
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<td>LBS</td>
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<td>Fruit Crops</td>
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<td>Leisure</td>
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<td>French Language</td>
<td>LIN</td>
<td>Linguistics</td>
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<td>FRT</td>
<td>French in Translation and/or Translation Skills</td>
<td>LIS</td>
<td>Library and Information Studies</td>
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<td>FRW</td>
<td>French Literature (Writings)</td>
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<td>Literature</td>
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<td>Funeral Services</td>
<td>LNW</td>
<td>Latin Literature (Writings)</td>
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<td>FSS</td>
<td>Food Service Systems</td>
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<td>Mathematics-Analisis</td>
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<td>FYC</td>
<td>Family, Youth, and Community</td>
<td>MAC</td>
<td>Mathematics-Calculus and Pre-calculus</td>
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<td>GCO</td>
<td>Golf Course Operations</td>
<td>MAD</td>
<td>Mathematics-Discrete</td>
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<td>GEO</td>
<td>Geography: Regional Areas</td>
<td>MAE</td>
<td>Mathematics Education</td>
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<td>GEB</td>
<td>General Business</td>
<td>MAG</td>
<td>Mechanized Agriculture</td>
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<tr>
<td>GEO</td>
<td>Geography: Systematic</td>
<td>MAN</td>
<td>Management</td>
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<tr>
<td>GER</td>
<td>German</td>
<td>MAP</td>
<td>Mathematics Applied</td>
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<tr>
<td>GET</td>
<td>German Literature in Translation</td>
<td>MAR</td>
<td>Ornamental Horticulture</td>
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<td>GEW</td>
<td>German Literature (Writings)</td>
<td>MAS</td>
<td>Ornamental Horticulture (Variable Paced)</td>
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<td>GEY</td>
<td>General Studies</td>
<td>MAT</td>
<td>Oralscotology</td>
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<td>Geophysical Fluid Dynamics</td>
<td>MCB</td>
<td>Occupational Therapy</td>
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<td>Graduate Liberal Studies</td>
<td>MCC</td>
<td>Public Administration</td>
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<td>GLY</td>
<td>Geology</td>
<td>MDW</td>
<td>Public Affairs</td>
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<td>Graduate Medical Sciences</td>
<td>MEO</td>
<td>Musical Assisting Technology</td>
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<tr>
<td>GMT</td>
<td>Modern Greek Literature in Translation</td>
<td>MEL</td>
<td>Music-Assisting</td>
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<tr>
<td>GMW</td>
<td>Modern Greek Literature (Writings)</td>
<td>MER</td>
<td>Music-Counseling</td>
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<td>Graphic Arts</td>
<td>MET</td>
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<td>Music-General and Finite</td>
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<td>Music-General for Adults</td>
</tr>
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<td>Classical Greek Literature (Writings)</td>
<td>MGH</td>
<td>Music-General of Adults</td>
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<td>Haitian Creole Language</td>
<td>MHS</td>
<td>Music-General</td>
</tr>
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<td>HBR</td>
<td>Modern Hebrew Language</td>
<td>MIS</td>
<td>Music-History of</td>
</tr>
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<td>HBT</td>
<td>Modern Hebrew in Translation</td>
<td>MKA</td>
<td>Music-History of</td>
</tr>
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<td>Health Care Administration</td>
<td>MLA</td>
<td>Music-History of</td>
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<td>HCP</td>
<td>Health Care Providers (Assistants)</td>
<td>MLT</td>
<td>Music-History of</td>
</tr>
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<td>HEB</td>
<td>Ancient Hebrew</td>
<td>MMC</td>
<td>Music-History of</td>
</tr>
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<td>Home Economics/Community</td>
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<td>Music-History of</td>
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<td>Home Economics Education</td>
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<td>Home Economics-Vocational</td>
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<td>Music-History of</td>
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<td>Music-History of</td>
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<td>Health Information Management</td>
<td>MTB</td>
<td>Music-History of</td>
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<td>HGS</td>
<td>General History and Histography</td>
<td>MTE</td>
<td>Music-History of</td>
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<tr>
<td>HLP</td>
<td>Health, Leisure, and Physical Education</td>
<td>MTH</td>
<td>Music-History of</td>
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<td>HME</td>
<td>Home Economics: Home Management and Equipment</td>
<td>MHS</td>
<td>Music-History of</td>
</tr>
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<td>HMV</td>
<td>Hospitality Management, Vocational</td>
<td>MIS</td>
<td>Music-History of</td>
</tr>
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<td>HMD</td>
<td>Modern Hebrew Literature</td>
<td>MKA</td>
<td>Music-History of</td>
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<td>Home Economics: General</td>
<td>MLS</td>
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<td>Horticultural Sciences</td>
<td>MLD</td>
<td>Music-History of</td>
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<td>HRD</td>
<td>Human Resources Development</td>
<td>MMC</td>
<td>Music-History of</td>
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<td>HSA</td>
<td>Health Services Administration</td>
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<td>Music-History of</td>
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<td>Health Sciences</td>
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</tr>
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<td>Human Mechanics</td>
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<td>Human Nutrition</td>
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<td>Human Services</td>
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<td>ICM</td>
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<td>Icelandic Literature</td>
<td>MTE</td>
<td>Music-History of</td>
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<td>MTH</td>
<td>Music-History of</td>
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<td>IDS</td>
<td>Interdisciplinary Studies</td>
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<td>Music-History of</td>
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<td>IEA</td>
<td>Industrial Education Applied</td>
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<td>Music-Composition</td>
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<td>Music-Education</td>
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<td>Interior Design</td>
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<td>INP</td>
<td>Industrial and Applied Psychology</td>
<td>MUM</td>
<td>Music-History of</td>
</tr>
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<td>INR</td>
<td>International Relations</td>
<td>MUL</td>
<td>Music-History of</td>
</tr>
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<td>IPM</td>
<td>Integrated Pest Management</td>
<td>MUM</td>
<td>Music Commercial/Management/Administration</td>
</tr>
<tr>
<td>ISC</td>
<td>Interdisciplinary Sciences</td>
<td>MUS</td>
<td>Music-Ensemble</td>
</tr>
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<td>ISM</td>
<td>Information Systems Management</td>
<td>MUO</td>
<td>Music-Opera/Musical Theatre</td>
</tr>
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<td>ISS</td>
<td>Interdisciplinary Social Sciences</td>
<td>MUR</td>
<td>Music-Church</td>
</tr>
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<td>ITA</td>
<td>Italian Language</td>
<td>MUS</td>
<td>Music</td>
</tr>
<tr>
<td>ITT</td>
<td>Italian Literature in Translation</td>
<td>MUT</td>
<td>Music</td>
</tr>
<tr>
<td>ITW</td>
<td>Italian Literature (Writings)</td>
<td>MUY</td>
<td>Music</td>
</tr>
<tr>
<td>JDU</td>
<td>Journalism</td>
<td>MVB</td>
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</tr>
<tr>
<td>JPN</td>
<td>Japanese Language</td>
<td>MVH</td>
<td>Music-Central</td>
</tr>
<tr>
<td>JPT</td>
<td>Japanese Literature in Translation</td>
<td>MVJ</td>
<td>Music-Jazz</td>
</tr>
<tr>
<td>JPW</td>
<td>Japanese Literature (Writings)</td>
<td>MVK</td>
<td>Music-Keyboard</td>
</tr>
<tr>
<td>JST</td>
<td>Jewish/Judaic Studies</td>
<td>MVO</td>
<td>Music-Other</td>
</tr>
<tr>
<td>KOR</td>
<td>Korean Language and Literature</td>
<td>MVP</td>
<td>Music-Perfomer</td>
</tr>
<tr>
<td>LAA</td>
<td>Landscape Architecture</td>
<td>MVS</td>
<td>Music-Strings</td>
</tr>
<tr>
<td>LAE</td>
<td>Language Arts and English Education</td>
<td>MVV</td>
<td>Music-Voice</td>
</tr>
</tbody>
</table>

**Common Course Numbering System**

- **309**
Courses Numbered 0-999

Depending upon previous background and test scores earned, individual students may be required to complete more than the minimum number of credits required for graduation in their respective programs. Courses numbered less than 1000 (Statewide Common Course Numbers) are sub-college level and may not be counted in meeting degree credit hour requirements for graduation.

Special Courses

In addition to the regular courses listed in this catalog, special courses may be available. Students should consult their academic advisor for details.

Special Undergraduates

Grad
Directed Independent Studies 1906, 2905, 3906, 4906, 5907
Directed Independent Research 4912, 5917

Special Undergraduate Research
Special Topics/Seminars 1921, 2930, 3930, 4932, 5937
*Internships, Practicums, Clinical Pract 3940, 4941
Cooperative Education 1948, 2949, 3949, 4949
Honors Undergraduate Thesis 3970, 4970
Honors Directed Reading 4903
Honors Directed Research 4904
Study Abroad 4955

*These courses may be assigned variable credit. Some may be repeated upon approval.
1The Special Graduate Courses are primarily for graduate students, but may be taken by advanced seniors with the consent of their deans.
2Enrollment is limited to those students who are fully admitted to the Graduate Program.
3Enrollment is limited to those students who are admitted into the Co-op program.

Dual Usage of Credit Hours

With the exception of 3 + 2 programs, courses used to meet the requirements of an undergraduate degree cannot typically also be used to meet the requirements of a graduate program. Students should consult their advisor or college for specific program requirements or additional information.

UCF Course Description Legend

PR: (Prerequisite) A course in which credit must be earned prior to enrollment in the listed course.
CR: (Corequisite) A course that must be taken concurrently with, or prior to, the listed course.
CI: (Consent of the Instructor)

Hours Code

Each course listed is followed by a code that shows hours of credit and contact hours.

Example:

ENV 4121
ECS-CEE (3,2,3)

ENV 4121 is offered by the College of Engineering and Computer Science (ECS), in the Civil and Environmental Engineering (CEE) Department, carries 3 hours of credit but requires 5 contact hours which consist of 2 hours in class and 3 hours laboratory or field work.

College/School/Department Indicator

Following the course number for each course listed is an indicator denoting the college, school, and department responsible for the course. The college designators are AS = Arts & Humanities, BHC = Burnett Honors College, COS = Sciences, ED = Education, ECS = Engineering and Computer Science, HM = Hospitality Management, and HPA = Health and Public Affairs. Department indicators are listed below (by college):

College/ School/ Department   Abbreviation
AS African American Studies   AAS
AS Art   ART
AS Arts & Sciences   CAS
AS Biology   BIOL
AS Chemistry   CHEM
AS Communication   COMM
AS Digital Media   DIG
AS English   ENG
AS Film   FILM
AS Foreign Languages   LANG
AS History   HIST
AS Judaic Studies   JUD
AS Liberal Studies   LS
AS Mathematics   MATH
AS Music   MUSIC
AS OASIS   OASIS
AS Philosophy   PHIL
AS Physics   PHYS
AS Political Science   POLS
AS Psychology   PSYCH
AS Radio/TV   RTV
AS Sociology & Anthropology   SOCIAN
AS Statistics   STAT
AS Theatre   THEA
AS Women's Studies   WOM
BA Accounting   ACCCT
BA Business   BUS
BA Economics   ECON
BA Finance   FIN
BA Management   MAN
BA Management Information System   MIS
BA Marketing   MAR
ECS Air Force ROTC/Aerospace Engineering   AFROTC
ECS Civil & Environmental Engineering   CES
ECS Electrical & Computer Science   ECE
ECS Engineering Technology   ENT
ECS Industrial & Management Engineering   IEMS
ECS Mechanical/Materials/Aerospace Engineering   MMEA
ECS Military Science-Army ROTC   ROTC
ED Child, Family & Comm Services   CFCS
ED Education   EDUC
ED Education Research, Tech & Lead   EDTE
ED Educational Foundations   EDF
ED Educational Studies   ED
ED Educational Technology   ET
ED Film and Media Studies   FMS
ED Human Services/Wellness   HSW
ED Instructional Programs   IP
ED Teaching & Learning Principles   TLP
ED Hospitality Management   HOSP
ED Communication Disorders   COMD
ED Criminal Justice & Legal Studies   CJS
ED Health & Public Affairs   HPA
ED Health Information Management   HIM
ED Health Professions   HP
ED Molecular & Microbiology   MM
ED Nursing   NURS
ED Public Administration   PUB
ED Social Work   SOW


ACG 2071 BA-ACCT 3(3,0) Principles of Managerial Accounting: PR: ACG 2021 and MAC 1105 or equivalent. The purpose of this class is to thoroughly familiarize the student with the various uses of accounting information for planning and control. Fall, Spring.

ACG 3082 BA-ACCT 3(3,0) Accounting For Non-Business Majors: PR: Junior Standing. Accounting and reporting from an investment and managerial decision making perspective. Occasional.

ACG 3131 BA-ACCT 3(3,0) Financial Accounting Concepts and Analysis: PR: Junior Standing, Accounting major or minor, and ACG 2021. ACG 2071 with a grade of "C" (2.0) or better. Technical knowledge about accounting measurement, and disclosure plus the study of how accounting reports are analyzed, and interpreted by external users. Fall, Spring.

ACG 3141 BA-ACCT 3(3,0) Intermediate Financial Accounting: PR: Accounting major or minor, ACG 3131 with a grade of "C" (2.0) or better. Accounting theory and practice related to preparation, and interpretation of external financial statements. Fall, Spring.

ACG 3361 BA-ACCT 3(3,0) Cost Accounting I: PR: Junior standing, Accounting major or minor, and MAC 1105, ECO 2013, ECO 2023, and ACG 2071 with a grade of "C". Theory and practice of using accounting information for managerial planning, and control as well as in costing, and pricing decisions. Fall, Spring.

ACG 3501 BA-ACCT 3(3,0) Financial Accounting for Governmental and Nonprofit Organizations: PR: Accounting major or minor, and a grade of "C" or better in ACG 2071. Application of the application of financial and managerial accounting, and auditing for governmental, and nonprofit organizations. Fall, Spring.


ACG 4401C BA-ACCT 3(3,1) Accounting Information Systems: PR: Accounting major or minor, ACG 3131 and CGS 2100C, with a grade of "C" or better. Manual and computer-based accounting information systems. Fall, Spring.

ACG 4651 BA-ACCT 3(3,0) Auditing: PR: Accounting major or minor, ACG 3411 and ACG 4401C with a grade of "C" or better. The standards, practices, and procedures followed in the audit function. Fall, Spring.

ACG 4671 BA-ACCT 3(3,0) Internal Auditing: PR: Accounting major or minor, ACG 3311 or ACG 3811. Theory and practice of internal auditing and the use of internal auditing in organizational control. Fall, Spring.

ACG 5005 BA-ACCT 1.5(1.5) Accounting Foundations: PR: Acceptance to Graduate Study. Accounting and reporting from an investment and managerial decision making perspective. Fall, Spring.


ACG 5346 BA-ACCT 3(3,0) Advanced Managerial Accounting: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and ACG 3361 with a grade of "C" or better and ECO 3411. Advanced and current techniques for generation and use of accounting information in managerial decision-making. Fall, Spring.

ACG 5405 BA-ACCT 3(3,0) Advanced Accounting Information Systems: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and ACG 4401C. Design, analysis and evaluation of accounting information systems. Fall, Spring.

ACG 5517 BA-ACCT 3(3,0) Financial Accounting and Auditing for Governmental and Nonprofit Organizations: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and ACG 3501 or consent of Graduate Program Advisor. Financial accounting and reporting for funds and activities of governments and nonprofit organizations; financial audit of government and nonprofit organizations. Occasional.

ACG 5625 BA-ACCT 3(3,0) Auditing and EDP: PR: Acceptance for graduate study, ACG 4401C, and ACG 4651. An examination of auditing procedures followed when a company uses a computer to process financial records. Occasional.


AFA 3102 CAH-AAS 3(3,0) Black Perspectives: A Multidisciplinary Approach: PR: Acceptance in the graduate program. Study of African American intellectual and cultural history. Fall, Spring.

AFA 3104 CAH-AAS 3(3,0) The African American Experience: PR: AFA 3102. The black experience in the African diaspora; interdisciplinary examination of major texts, theories, practices and philosophical foundations in African American intellectual and cultural history. Fall, Spring.

AFA 3955 CAH-AAS 6(6,0) Study Abroad in Eastern Caribbean: PR: LAS 4023 or Junior standing. Interdisciplinary study abroad program focuses on the arts and humanities of African diasporic cultures in the Eastern Caribbean. Occasional.


AFA 5930 CAH-AAS 3(3,0) Topics in African American Studies: PR: graduate status or senior standing or C.I. This interdisciplinary seminar uses primary texts to examine the impact of black culture, aesthetic and philosophical ideas on 20th century American society. Occasional.

AFH 3100 CAH-HIST 3(3,0) African History to 1870: PR: C.I. Sub-Saharan African institutions and peoples from the earliest time until 1870. Occasional.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Department</th>
<th>Title</th>
<th>Credits</th>
<th>PR:</th>
</tr>
</thead>
<tbody>
<tr>
<td>AFH 3200</td>
<td>CAH-HIST</td>
<td>African History Since 1870: PR: C.I. Sub-Saharan African history from 1870 to the present. Occasional.</td>
<td>3(3,0)</td>
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<tr>
<td>AFH 5806</td>
<td>CAH-HIST</td>
<td>The Historiography of Slavery in Africa: PR: graduate status or senior standing or C.I. Course covers the central issues and controversies in the historiography of slavery in Africa. Occasional.</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>AFR 1101C</td>
<td>ECS-AFROTC</td>
<td>The Air Force Today I: History, mission, organization, and doctrine of the United States Air Force and a study of U.S. Strategic Offensive and Defensive Forces. Hands on training. Fall.</td>
<td>1(1,2)</td>
<td></td>
</tr>
<tr>
<td>AFR 1111C</td>
<td>ECS-AFROTC</td>
<td>The Air Force Today II: A brief review of the Army, Navy, and Marine forces. An introduction to special operations and counterinsurgency. Spring.</td>
<td>1(1,2)</td>
<td></td>
</tr>
<tr>
<td>AFR 2130C</td>
<td>ECS-AFROTC</td>
<td>The Development of Air Power I: A study of the development of air power from experiments by 18th-century balloonists to the achievement of combat air power capabilities during World War II. Hands on training. Fall.</td>
<td>1(1,2)</td>
<td></td>
</tr>
<tr>
<td>AFR 2131C</td>
<td>ECS-AFROTC</td>
<td>The Development of Air Power II: A study of the development of aerospace capabilities since World War II, highlighting technological advancements and the role of aerospace power in the contemporary world. Spring.</td>
<td>1(1,2)</td>
<td></td>
</tr>
<tr>
<td>AFR 3220C</td>
<td>ECS-AFROTC</td>
<td>Air Force Leadership and Management I: An introductory study of Air Force management fundamentals, communications skills, and basic leadership skills. Hands on training. Fall.</td>
<td>3(3,2)</td>
<td></td>
</tr>
<tr>
<td>AFR 3230C</td>
<td>ECS-AFROTC</td>
<td>Air Force Evaluation and Management II: PR: AFR 3220C or C.I. A concluding study of Air Force management fundamentals, including performance evaluation skills. Spring.</td>
<td>3(3,2)</td>
<td></td>
</tr>
<tr>
<td>AFR 4201C</td>
<td>ECS-AFROTC</td>
<td>National Security Affairs and Prep for Active Duty I: PR: AFR 3220C. Examination of the military and its role in American society. A study of the framework and formation of defense strategy. Hands on training. Fall.</td>
<td>3(3,2)</td>
<td></td>
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<tr>
<td>AFR 4210C</td>
<td>ECS-AFROTC</td>
<td>National Security Affairs and Prep for Active Duty II: PR: An examination of defense implementation and its impact on the decision-making process. A study of the military justice system and its protection of individual rights. Spring.</td>
<td>3(3,2)</td>
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<tr>
<td>AMH 2020H</td>
<td>CAH-HIST</td>
<td>U.S. History: 1877-Present: Survey of U.S. History from 1877 to the present. May be taken before AMH 2010. Fall, Spring.</td>
<td>3(3,0)</td>
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<tr>
<td>AMH 2020</td>
<td>CAH-HIST</td>
<td>U.S. History: 1877-Present: Survey of U.S. History from 1877 to the present. May be taken before AMH 2010. Fall, Spring.</td>
<td>3(3,0)</td>
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<tr>
<td>AMH 2010H</td>
<td>CAH-HIST</td>
<td>Honors U.S. History: 1877-Present: Consent of Honors. Survey of U.S. History from 1849-1877. Fall, Spring.</td>
<td>3(3,0)</td>
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<tr>
<td>AMH 3370</td>
<td>CAH-HIST</td>
<td>American Economic History: PR: AMH 2010 and AMH 2020, or C.I. An introduction to the economic development of the U.S., with emphasis on agriculture, labor, industrialization, transportation, and banking. Occasional.</td>
<td>3(3,0)</td>
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<tr>
<td>AMH 3402</td>
<td>CAH-HIST</td>
<td>History of the South to 1865: PR: AMH 2010 and AMH 2020, or C.I. Development of the southern colonies, beginning sectionalism, the cotton economy, and slavery, Calhoun's constitutional theories, secession, Civil War and its aftermath. Occasional.</td>
<td>3(3,0)</td>
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<tr>
<td>AMH 3403</td>
<td>CAH-HIST</td>
<td>History of the South Since 1865: PR: AMH 2010 and AMH 2020, or C.I. Reconstruction, the &quot;solid South&quot; and the racial dilemma, progressivism for whites only, southern literature, 20th-century economic, political and social changes, and the new Reconstruction. Occasional.</td>
<td>3(3,0)</td>
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<tr>
<td>AMH 3421</td>
<td>CAH-HIST</td>
<td>History of Florida to 1845: PR: AMH 2010 and 2020 or C.I. Occasional.</td>
<td>3(3,0)</td>
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<tr>
<td>AMH 3423</td>
<td>CAH-HIST</td>
<td>Florida History 1845-Present: PR: AMH 2010 and 2020 or C.I. Occasional.</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>AMH 3441</td>
<td>CAH-HIST</td>
<td>History of the Frontier: Eastern America: AMH 2010 and AMH 2020 or C.I. The progression of the westward movement from the colonial settlements to the Mississippi, considered as an interpretive approach to American history. Occasional.</td>
<td>3(3,0)</td>
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<tr>
<td>AMH 3442</td>
<td>CAH-HIST</td>
<td>History of the Frontier: Western America: PR: AMH 2010 and AMH 2020, or C.I. The development of the trans-Mississippi West and its impact upon American history. Occasional.</td>
<td>3(3,0)</td>
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</tr>
<tr>
<td>AMH 3541</td>
<td>CAH-HIST</td>
<td>U.S. Military History To 1890: PR: AMH 2010 and AMH 2020, or C.I. U.S. military history from the colonial period to 1900 focusing on the creation of American military institutions, conduct of war, and influence on society. Occasional.</td>
<td>3(3,0)</td>
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<tr>
<td>AMH 3547</td>
<td>CAH-HIST</td>
<td>U.S. Military History Since 1900: PR: AMH 2010 and AMH 2020, or C.I. U.S. military history since 1900 emphasizing civil-military relations, warfare, and military developments. Occasional.</td>
<td>3(3,0)</td>
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</tr>
<tr>
<td>AMH 3562</td>
<td>CAH-HIST</td>
<td>Women in American History II: PR: AMH 2010, AMH 2020 or C.I. Examines industrialization, entry of women into higher education and professions, winning of suffrage, changing profile of female wage earner, and rise of modern feminism. Occasional.</td>
<td>3(3,0)</td>
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<tr>
<td>AMH 3800</td>
<td>CAH-HIST</td>
<td>Canadian History: Canada since Colonial times and the present, but with emphasis on the period since the British North America Act, 1867. Occasional.</td>
<td>3(3,0)</td>
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<tr>
<td>AMH 4110</td>
<td>CAH-HIST</td>
<td>Colonial America, 1607-1763: PR: AMH 2010 and 2020 or C.I. The voyages of discovery, the origins of the thirteen colonies, and their political, economic, social, and religious life in the 17th and 18th centuries. Occasional.</td>
<td>3(3,0)</td>
<td></td>
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<tr>
<td>AMH 4112</td>
<td>CAH-HIST</td>
<td>The Atlantic World: PR: C.I. The impact and transforming effect of the Atlantic System on the peoples of Western Europe, Western Africa, the Caribbean and the Americas. Occasional.</td>
<td>3(0)</td>
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</tr>
<tr>
<td>AMH 4120</td>
<td>CAH-HIST</td>
<td>The Age of the American Revolution, 1763-1789: PR: AMH 2010 and 2020 or C.I. The American Revolution - its origins, course, and impact upon American society - the Articles of Confederation, the Philadelphia Convention and its work. Occasional.</td>
<td>3(0)</td>
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</tr>
<tr>
<td>AMH 4140</td>
<td>CAH-HIST</td>
<td>Jeffersonian America: PR: AMH 2010 and 2020 or C.I. The Confederation era, the Federalists, Jeffersonian Democracy, and the War of 1812. Occasional.</td>
<td>3(0)</td>
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</tr>
<tr>
<td>AMH 4150</td>
<td>CAH-HIST</td>
<td>Jacksonian America: PR: AMH 2010 and 2020 or C.I. The risk of American nationalism, Jacksonian Democracy, the Mexican War, and sectional conflict. Occasional.</td>
<td>3(0)</td>
<td></td>
</tr>
<tr>
<td>AMH 4170</td>
<td>CAH-HIST</td>
<td>Civil War and Reconstruction: PR: AMH 2010 and 2020 or C.I. Reconstruction, and impact of industrialism. Occasional.</td>
<td>3(0)</td>
<td></td>
</tr>
</tbody>
</table>
AML 4265  CAH-ENG  3(3,0)
Florida Writers: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. This course will examine writers who have lived in and written about Florida, such as Hemingway, Rawlings, Hurston, and Stevens. Occasional.

AML 4300  CAH-ENG  3(3,0)
Major American Authors: PR: ENG 3014. A comprehensive study of selected major American literary figures. May be repeated for credit when content changes. Fall, Spring.

AML 4304  CAH-ENG  3(3,0)

AML 4321  CAH-ENG  3(3,0)
Modern American Literature: PR: Grade of C (2.0) or better required in ENC 3102 and ENG 3014. Major writers of modern American literature. Occasional.

AML 4630  CAH-ENG  3(3,0)
Latino/Latina Literature: PR: Grade of C (2.0) or better required in ENG 3014. U.S. literature by writers from Latino and Latina backgrounds. Occasional.

AML 5076  CAH-ENG  3(3,0)
American Literature: Colonial to Contemporary: PR: Graduate status or senior standing or C.I. The study of American literature from the colonial period to the present. Occasional.

AML 5156  CAH-ENG  3(3,0)
Modern American Poetry: PR: Graduate status or senior standing or C.I. Study of trends, modes, major figures (Eliot, Pound, H.D.Lawrence, Stevens, Hart, Crane, Moore, W.C. Williams, etc.) within the Modernist movement in American poetry. Occasional.

ANG 5100  COS-ANTHRO  3(3,0)
Archaeological Sciences: PR: Graduate standing or C.I. Field and laboratory methods routinely used in archaeology and forensic archeology, including instrumentation. Occasional.

ANG 5165  COS-ANTHRO  3(3,0)
Maya Field Research: PR: Graduate standing or C.I. Practical application of method and theory during primary in-field research in the Maya area. Spring.

ANG 5166  COS-ANTHRO  3(3,0)
Problems in Maya Studies: PR: ANG 6168 or C.I. In-depth study of current methodological, theoretical, and/or topical problems in Maya Studies. Occasional.

ANG 5167  COS-ANTHRO  3(3,0)
Maya Hieroglyphs: PR: ANG 6168, graduate status or senior standing, or C.I. The study of Maya writing, the translation of Maya hieroglyphs, and the significance of translations to reconstructions of ancient Maya culture. Occasional.

ANG 5228  COS-ANTHRO  3(3,0)
Maya Iconography: PR: ANG 6168 or C.I. Study and interpretation of ancient Maya iconography as reflected in art, artifacts, and constructed features. Odd Spring.

ANG 5272  COS-ANTHRO  3(3,0)
Culture, Power and Development: PR: Graduate standing or C.I. Origins and contemporary ramifications of underdevelopment and disempowerment in the world system from an anthropological perspective. Occasional.

ANG 5307  COS-ANTHRO  3(3,0)
Peoples and Cultures of Latin America: PR: Graduate standing or C.I. Latin American culture focusing on indigenous history, colonialism, traditional peoples, social change, and modernization. Occasional.

ANG 5341  COS-ANTHRO  3(3,0)
Caribbean Cultures: PR: Graduate standing or C.I. Historical and contemporary overview of the societies and cultures of the Caribbean region, including effects of colonization by the Dutch, Spanish, British, and French. Occasional.

ANG 5437  COS-ANTHRO  3(3,0)
Anthropology of Tourism: PR: Graduate standing or C.I. Anthropology of tourism in U.S. and world regions, including impacts on local peoples, cultures, and environments. Occasional.

ANG 5467  COS-ANTHRO  3(3,0)
Nutritional Anthropology: PR: One course in Social Sciences (min-200-level) and one course in Biological Sciences (min 2000-level) or Consent of Instructor. Graduate status or senior standing or C.I. The biological, social, cultural, psycholological, and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, evolutionary, ecological. Occasional.

ANG 5620  COS-ANTHRO  3(3,0)
Language and Culture: PR: Graduate standing in Anthropology or C.I. Language as an integral part of human culture and behavior, focusing on cross cultural issues that affect cultural competency. Occasional.

ANG 5622  COS-ANTHRO  3(3,0)
Language, Culture and Pedagogy: PR: Graduate standing or C.I. Linguistic and cultural issues in the learning needs of students from culturally diverse populations. Occasional.

ANG 5741  COS-ANTHRO  3(3,0)
Mortuary Archaeology: PR: Graduate standing or C.I. Funerary customs and human remains; basic data collection, skeletal analysis, and comparative study of mortuary ritual - ancient and modern. Occasional.

ANG 5742  COS-ANTHRO  3(3,0)
Problems in Forensic Anthropology: PR: Graduate standing or C.I. Current issues and topics in forensic anthropology. Occasional.

ANT 2000  COS-ANTHRO  3(3,0)
General Anthropology: An introductory survey of the four major subfields of anthropology: Social Anthropology, Physical Anthropology, Linguistics, and Archaeology. Fall, Spring.

ANT 2000H  COS-ANTHRO  3(3,0)

ANT 2100  COS-ANTHRO  3(3,0)
Archaeology and the Rise of Human Culture: The evolution of human society from foraging and hunting groups to the earliest cities and states. Fall.

ANT 2410  COS-ANTHRO  3(3,0)
Cultural Anthropology (Anthropology II): An introduction to human diversity as exemplified among various cultures and ethnic groups. Even Spring.

ANT 2511  COS-ANTHRO  3(3,0)
The Human Species: Human biological variation in an evolutionary perspective. Fall, Spring.

ANT 2511H  COS-ANTHRO  3(3,0)

ANT 3115  COS-ANTHRO  3(3,0)
Archaeological Method and Theory: A survey of archaeological field and laboratory techniques, including the interpretation of written archaeological reports. Even Fall.

ANT 3142  COS-ANTHRO  3(3,0)
Old World Prehistory: A comparative study of social evolution in Africa, Europe, and Asia from the earliest humans to the beginnings of recorded history. Occasional.

ANT 3145  COS-ANTHRO  3(3,0)
Archaeology of Complex Societies: Theoretical perspectives on ancient hierarchies of power. Fall.

ANT 3158  COS-ANTHRO  3(3,0)
Florida Archaeology: PR: ANT 2000 or ANT 2100 or C.I. Florida prehistory from Paleo-Indian to European contact including archaeological periods, cultural areas, sites, and artifacts. Occasional.

ANT 3163  COS-ANTHRO  3(3,0)
Mesoamerican Archaeology: An introduction to the prehistory of Mexico, Guatemala and upper Central America from earliest times through the Spanish conquest. Occasional.

ANT 3164  COS-ANTHRO  3(3,0)
Ancient Incas: PR: ANT 2000 or SYG 2000 or ANT 2100 or C.I. The ancient Inca civilization, including examination of pre-Inca cultures and modern Andeans. Uses archaeological, ethnohistorical, historical, and contemporary anthropological sources. Occasional.

ANT 3168  COS-ANTHRO  3(3,0)
Maya Archaeology: An examination of the Prehistoric Maya culture focusing on both the archaeology and current issues in the field. Occasional.

ANT 3212  COS-ANTHRO  3(3,0)
Peoples of the World: A comparative study of religion, family, politics, philosophy, and other elements of social-cultural organization of pre-literate societies. Fall, Spring.

ANT 3241  COS-ANTHRO  3(3,0)
Magic, Ritual, and Belief: Patterns in religious behavior in various societies, with primary emphasis on myth, ritual, taboo, and festival social phenomena. Fall, Spring.

ANT 3245  COS-ANTHRO  3(3,0)
Native American Religions: PR: ANT 2000 or ANT 2410 or C.I. The religious beliefs of native New World peoples. Occasional.

ANT 3262  COS-ANTHRO  3(3,0)

ANT 3273  COS-ANTHRO  3(3,0)
Law and Culture: An introduction to law as an organizing force in society, including a study of primitive forms of law and social control. Occasional.

ANT 3302  COS-ANTHRO  3(3,0)
Sex, Gender and Culture: The traditional and changing roles of women and men viewed in a cross-cultural perspective. Fall, Spring.
ANT 3311 COS-ANTHRO 3(3,0) Indians of the Southeastern United States: A study of the social and cultural history of the Indians of the Southeast. Occasional.

ANT 3312 COS-ANTHRO 3(3,0) Ethnology of North American Indians: A survey of the aboriginal cultures of North America, with emphasis on the pre-contact cultural condition. Even Spring.


ANT 3314 COS-ANTHRO 3(3,0) Indians of the Northeast Woodlands: PR: ANT 2000 or ANT 2410 or other lower-level social science course. The prehistory, history and culture of Native Americans of the North American Northeast. Occasional.

ANT 3316 COS-ANTHRO 3(3,0) Black/Seminole Relations: PR: 2000 level GEP Social Science course or CI. Relationships forged between peoples of African origin and descent and the Seminole Indians. Occasional.

ANT 3318 COS-ANTHRO 3(3,0) Indians of the Northwest Coast: PR: ANT 2000 or ANT 2410 or other lower-level social science course. The prehistory, history and culture of Native Americans of the Northwest Coast of North America. Occasional.

ANT 3319 COS-ANTHRO 3(3,0) Anthropology of Diaspora: PR: ANT 2000 or ANT 2410 or CI. Comparative study of sociocultural constructions of race and the processes of acculturation and resistance in African Diasporas of the New and Old Worlds. Occasional.

ANT 3320 COS-ANTHRO 3(3,0) Indians of the Southwest: PR: ANT 2000. Native American culture types of the southwest: Navajo, Pueblo (Zuni, Hopi, Tewa), Apache (Lipan, Mescalero), and Desert Tradition (Pima, Papago, Havasupi). Occasional.

ANT 3330 COS-ANTHRO 3(3,0) Cultural Ecology of Amazonia: PR: Any 2000 level social science course or CI. The cultural ecology and adaptive strategies of native Amazonians, including effects of modernization on resource use and cultural survival. Occasional.


ANT 3358 COS-ANTHRO 3(3,0) Life and Death in Ancient Egypt: PR: Any 2000 level Anthropology course. Use of archaeology and physical anthropology to examine the lives and death of both common citizens and royalty in Ancient Egypt (3200 BCE-AD 600). Occasional.

ANT 3363 COS-ANTHRO 3(3,0) Anthropology of Japan: An examination of Japanese culture and its contemporary behavioral and organizational patterns by drawing upon archaeology, cultural history, linguistics, cultural anthropology, and social organization. Occasional.

ANT 3541 COS-ANTHRO 3(3,0) Biobehavioral Anthropology: An introduction to the study of human behavior in terms of mutual interaction between human biology and cultural environments. Spring.

ANT 3550 COS-ANTHRO 3(3,0) Primatology: PR: ANT 2511 or CI. Study of species from the Order Primates, including their morphology, ecology, behavior, and geographic distribution. Occasional.

ANT 3640 COS-ANTHRO 3(3,0) Language and Culture: PR: Sophomore standing. The study of language in a non-western setting: language and behavior; language and perception. Spring.

ANT 3701 COS-ANTHRO 3(3,0) Applied Anthropology: PR: ANT 2000 or CI. Application of anthropological methods to current human problems such as the environment, migration, globalization and health. Occasional.

ANT 3949 COS-ANTHRO 0(0,8) Cooperative Education in Anthropology: PR: Departmental permission required before registering. Cooperative education experience in anthropology. May be repeated. Graded S/U. Occasional.

ANT 4034 COS-ANTHRO 3(3,0) History of Anthropological Thought: The exploration of the intellectual foundations of modern anthropology. Spring.

ANT 4101 COS-ANTHRO 3(3,0) Archaeological Sciences: PR: ANT 2511, or ANT 2100, or CI. Methods and instrumentation routinely used in archaeology and forensic archaeology. Spring.

ANT 4144 COS-ANTHRO 3(3,0) Prehistory of North America: PR: Any lower level course in the social sciences. The rise of North American Native culture from the earliest evidence of human occupation in the New World; e.g., the Folsom, Clovis, Sandia, etc., to the time of contact with European cultures. Occasional.

ANT 4153 COS-ANTHRO 3(3,0) North American Archaeology: PR: Any lower level social science course. The cultural development of Native North Americans from prehistoric times to the period of the first European contact. Occasional.

ANT 4180C COS-ANTHRO 3(1,4) Seminar in Laboratory Analysis: The processing of archaeological finds from excavation through publication. May be repeated for credit. Spring.

ANT 4184 COS-ANTHRO 3(3,0) Mortuary Archaeology: PR: ANT 2000, or ANT 2100, or CI. Archaeological interpretation of death; basic data collection, skeletal analysis, and comparative study of mortuary ritual - both ancient and modern. Occasional.


ANT 4308 COS-ANTHRO 3(3,0) Gender Issues in Latin America: PR: Completion of a lower-level social science course or its equivalent. Issues of gender in Latin America through an anthropological approach, both theoretical and practical, with special attention to women’s lives. Occasional.

ANT 4332 COS-ANTHRO 3(3,0) People and Cultures of Latin America: PR: ANT 2000, SYG 2000, or PSY 2010 or CI. History and society of the peoples of Latin America, emphasizing patterns of subsistence and social organization. Odd Fall, Spring.


ANT 4352 COS-ANTHRO 3(3,0) African Societies and Cultures: PR: ANT 2000 or SYG 2000 or CI. Anthropological survey of Africa examining the social, cultural, and economic diversity of the continent over time. Occasional.

ANT 4354 COS-ANTHRO 3(3,0) Postcolonial Africa: PR: ANT 2000 or SYG 2000 or CI. Cultural change and continuity in contemporary Africa, ethnography of postcolonial social and cultural issues including globalization, health, economics, peace and stability. Occasional.

ANT 4438 COS-ANTHRO 3(3,0) Anthropology of Tourism: PR: ANT 2000, or SYG 2000, or PSY 2012 or CI. Social theory of tourism; anthropology of tourism in U.S. and world regions, including impacts on local peoples, cultures, and environments. Occasional.

ANT 4462 COS-ANTHRO 3(3,0) Medical Anthropology: PR: ANT 2000 or ANT 2511 or CI. The field of medical anthropology. Topics will include theories, methods, and applications. Occasional.

ANT 4467 COS-ANTHRO 3(3,0) Nutritional Anthropology: PR: One 2000 level course in social sciences and one 2000 level course in biological sciences or CI. Psychological, biological, social, cultural, and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, ecological and evolutionary. Occasional.

ANT 4516 COS-ANTHRO 3(3,0) Human Biological Diversity: PR: ANT 2511 or BSC 2010C or CI. Human biological variation and adaptation. Occasional.

ANT 4521C COS-ANTHRO 3(3,0) Forensic Anthropology: PR: ANT 2511 or CI. The study of human skeletal remains in relation to a legal context. Occasional.


ANT 4528C COS-ANTHRO 5(3,3) Advanced Forensic Anthropology: PR: ANT 4521C. Advanced laboratory methods in forensic anthropology, including skeletal analysis and the application of archaeological techniques to the recovery of human remains. Even Spring.

ANT 4586 COS-ANTHRO 3(3,0) Human Origins: PR: ANT 2511. The fossil evidence for human evolution from Mioocene hominoids through the australopithecines and the earliest members of the genus Homo. Spring.

ANT 4702 COS-ANTHRO 3(3,0) Culture, Power and Development: PR: ANT 2000, or SYG 2000, or PSY 2012 or CI. Anthropological perspective on origins and contemporary ramifications of underdevelopment and disenempowerment in the world system. Occasional.
ANT 4802  COS-ANTHRO  3(3,0)

ANT 4824  COS-ANTHRO  9(9,0)
Advanced Archaeological Fieldwork: PR: Students admitted only with permission of instructor. Supervised archaeological fieldwork. Spring.

APA 3471  BA-ACCT  3(3,0)

ARA 1120  CAH-LANG  4(4,1)
Elementary Arabic Language and Civilization I: Introduces the student to Arabic language skills. Open only to students with no experience in the language. Fall.

ARA 1120H  CAH-LANG  4(4,1)
Honors Elementary Arabic Language and Civilization I: PR: Permission of Honors. Introduction to Arabic language skills. Open only to students with no experience in the language. Honors level content. Occasional.

ARA 1121  CAH-LANG  4(4,1)
Elementary Arabic Language and Civilization II: PR: ARA 1120 or C.I. Continuation of ARA 1120. Spring.

ARA 1121H  CAH-LANG  4(4,1)

ARA 2200  CAH-LANG  3(3,1)
Intermediate Arabic Language and Civilization II: PR: ARA 1121 or C.I. Development of language skills and cultural knowledge at the intermediate level. Occasional.

ARE 2011  ED-CFCS  3(3,0)
Early Childhood Art and Creativity: An examination of developmental patterns in children's artistic behaviors and appropriate instructional strategies to be implemented. Occasional. M&S fee: $5.00

ARE 3944  CAH-ART  3(2,3)
Community Arts Practicum: PR: C.I. A supervised experience for students to facilitate art programming in a variety of community settings. Occasional.

ARE 4250  ED-TLP  3(3,0)
Art for Exceptionalities: PR: EDG 4233 and at least junior standing or C.I. Concepts, principles, and methods of integrating art processes into the education of students with physical, emotional, and mental disabilities. Occasional.

ARE 4262  CAH-ART  3(3,0)
Methods in Art Administration: PR: ARH 3820. Theories and methodologies for designing, implementing and administering art programs for a variety of populations. Occasional.

ARE 4313  ED-TLP  3(2,1)
Art in the Elementary School: PR: Junior standing or C.I. Basic principles, purposes, scope and sequence: organization for instruction; evaluation of activities; selected art experiences. Fall, Spring. M&S fee: $5.00

ARE 4351  ED-TLP  3(2,1)
Teaching Art in the Elementary School: PR: EDF 4214 and EDG 4233. Transition from university art studio practices to public school teaching of art. Organizing, designing and analyzing art experiences, activities and classroom environments for the elementary school classroom. Fall. M&S fee: $5.00

ARE 4351  ED-TLP  3(2,1)
Teaching Art in the Secondary School: PR: EDF 4214, and EDG 4233. Transition from university art studio practices to High School Teaching of art. Organizing, designing and analyzing art experiences and activities appropriate for junior high and high school children. Examination of teaching methodology relative to the high school and junior high school settings. Spring. M&S fee: $5.00

ARE 4356  ED-TLP  3(3,1)
Teaching Art Appreciation & Criticism in the Classroom: PR: ARH 2050 and ARH 2051. An examination of art appreciation programs and concepts toward planning curriculum for the study of art history, popular art, art criticism, and aesthetics for specific educational settings. Fall. M&S fee: $5.00

ARE 4453  ED-TLP  3(3,0)
Studio Experiences in Art Education: PR: Completion of all Art Education Program Prerequisites or C.I. Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productivity. May be repeated for credit. Spring. M&S fee: $5.00

ARE 4945  CAH-ART  12(0,12)
Community Arts Internship: PR: C.I. An on-site in-depth experience for community arts majors with a concentration in administration, education, or therapeutic experience. Occasional.

ARE 5252  ED-TLP  3(2,1)
Arts in Recreation: Art activities and experiences appropriate for use in playground, leisure services, occupational orientation and other recreational areas. Occasional.

ARE 5255  ED-TLP  3(2,1)
Art for Exceptionalities: Concepts, principles, and methods of integrating art processes into the education of the physically, emotionally, and mentally handicapped. Occasional.

ARE 5359  ED-TLP  4(4,0)
Teaching Art K-12: PR: Admission to M.A. in Art Education, graduate standing or C.I. Transition from university art practices to public school teaching of art. Organize, design, and analyze art learning for students K-12. Occasional. M&S fee: $5.00

ARE 5454  ED-TLP  3(3,0)
Studio Experiences in Art Education: PR: Graduate admission or C.I. 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. Spring. M&S fee: $5.00

ARH 2050H  CAH-ART  3(3,0)
History of Western Art I: Painting, sculpture and architecture from the Prehistoric Era through the Renaissance, with honors content. Occasional.

ARH 2050H  CAH-ART  3(3,0)
History of Western Art II: PR: Permission of Honors. Painting, sculpture and architecture from the Baroque through the 20th century. Fall, Spring.

ARH 2051H  CAH-ART  3(3,0)
Honors History of Western Art II: PR: Permission of Honors. Painting, sculpture and architecture from the Baroque through the 20th century, with honors-level content. Occasional.

ARH 2500  CAH-ART  3(3,0)
History of Non-Western Art: Major visual arts in various non-Western cultures. Fall, Spring.

ARH 3454  CAH-ART  3(3,0)
Happenings and Conceptual Art: PR: Junior Standing or C.I. Aesthetic and social significance of "Total Art" in its attempt to break down customary distinctions between life and art. Occasional.

ARH 3471  CAH-ART  3(3,0)
Art in the Last 25 Years: PR: ARH 2500 and ARH 2051 or C.I. A seminar for upper-level art students to examine current trends in the visual arts. Occasional.

ARH 3520  CAH-ART  3(3,0)
African Art: PR: Junior status. ARH 2050, or C.I. Art objects produced in Africa and African sites; with some consideration of arts of the African Diaspora. Occasional.

ARH 3570  CAH-ART  3(3,0)
Ceramics of the Muslim World: PR: ARH 2050 or C.I. Islamic Art and the stylistic and technical characteristics of the period, in contrast to pre-Islamic or other civilizations such as the ancient Greeks, Egyptians, Babylonians, and Chinese. Occasional.

ARH 3610  CAH-ART  3(3,0)
American Art: PR: ARH 2500 and ARH 2051 or C.I. Surveys American Art from 1900. Leading artists are identified and representative examples of their work are discussed within the context of major themes, patterns, sources. Occasional.

ARH 3631  CAH-AAS  3(3,0)

ARH 3632H  CAH-ART  3(3,0)

ARH 3670  CAH-ART  3(3,0)
20th Century Latin American Art: PR: ARH 2050 and ARH 2051 or C.I. Art of the modern era (1920 to 1980) in the Caribbean and South America, issues and characteristics of art as they reflect the cultural evolution of Latin America. Occasional.

ARH 3673  CAH-ART  3(3,0)
Modern Art of Mexico: PR: ARH 2050 or ARH 2051 or C.I. Modern art of Mexico from the Mexican Academy post-independence to the 1980's. Occasional.
ARH 3683 CAH-ART 3(3,0) Southern Folk Arts: PR: Junior Standing or C.I. This course will explore contemporary issues related to folk art including definition, collecting, marketing, art criticism, tradition, innovation, and its relationship to the so-called fine arts and popular arts. Occasional.

ARH 3710 CAH-ART 3(3,0) History of Photography I: PR: Junior Standing or C.I. History of still photography from its earliest inception to 1900. The content of this course is designed for art majors. Occasional.

ARH 3711 CAH-ART 3(3,0) History of Photography II: PR: Junior Standing or C.I. History of still photography from the early 20th century to the present. The content of this course is designed for art majors. Occasional.

ARH 3720 CAH-ART 3(3,0) History of Prints: PR: ARH 2050 and ARH 2051 or C.I. A study of the trends and developments in art during the 19th century, including the art of America and of Western Europe. Occasional.

ARH 3820 CAH-ART 3(3,0) Visual Arts Administration Villas: PR: Junior Standing or C.I. Grant applications; Personnel; copyright laws; museum of the present. The content of this course is designed for art majors. Occasional.

ARH 4170 CAH-ART 3(3,0) Greek & Roman Art: PR: ARH 2050 or HUM 3431 and ENC 1102 or C.I. A study of the art and architecture of the ancient civilizations of the Mediterranean, comprising Greece, Etruria, and Rome. Occasional.

ARH 4200 CAH-ART 3(3,0) Medieval Art: PR: ARH 2050 and ARH 2051. Medieval Art from the 6th through 14th centuries, including painting, architecture, sculpture and illuminated manuscripts. Occasional.

ARH 4310 CAH-ART 3(3,0) Italian Renaissance Art: PR: ARH 2050 and ARH 2051 or C.I. Italian Art and architecture from 1300 to 1600. Occasional.

ARH 4350 CAH-ART 3(3,0) Baroque Art: PR: ARH 2050 and ARH 2051 or C.I. A study of European Art in the 17th and 18th centuries. Occasional.

ARH 4430 CAH-ART 3(3,0) 19th Century Art: PR: ARH 2050 and ARH 2051. A survey of the trends and developments in art during the 19th century, including the art of America and of Western Europe. Occasional.

ARH 4450 CAH-ART 3(3,0) 20th Century Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of the art from Fauvism, Futurism, Cubism to the art of the present. Occasional.

ARH 4545 CAH-ART 3(3,0) Art of India: PR: Junior Standing or C.I. Art and architecture of India from prehistoric times through the Gupta, Raipur, and Muslim periods. Occasional.

ARH 4655 CAH-ART 3(3,0) Mesoamerican Art: PR: Junior Standing or C.I. A survey of the art of Mexico and Central America, from the Pre-Columbia, through the Spanish Colonial, to the 20th century. Occasional.


ARH 4892 CAH-ART 3(3,0) Women in Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of women artists from ancient times to the present as well as a study of the role Aesthetics and Ideology have played in determining representations of women in art. Occasional.

ARH 5897 CAH-ART 3(3,0) Advanced Seminar in Art History: PR: ARH 2050 and ARH 2051 or C.I. Research methods on various topics including: major artist, monument, cultural period or theme. Occasional.

ART 2130C CAH-ART 3(3,0) Fibers & Fabrics: Design and production training in surface design, floorloom weaving and fiber sculpture. Occasional. M&S fee: $5.00


ART 2201H CAH-ART 3(3,0) Design Fundamentals-Two Dimensional: PR: ART 2820. Priority given to students whose major requires this course. Materials, processes, form. Emphasis on two-dimensional design problems, including problems in black and white and basic color theory. Fall, Spring. M&S fee: $15.00

ART 2201I CAH-ART 3(3,0) Honors Design Fundamentals-Two Dimensional: PR: ART 2820. Priority given to students whose major requires this course. Emphasis on use of Honors. Materials, processes, form. Emphasis on two-dimensional design problems, including problems in black and white and basic color theory. With Honors consent. Occasional.

ART 2203C CAH-ART 3(2,4) Design Fundamentals-Three Dimensional: PR: ART 2820 or C.I. Priority given to students whose major requires this course. Basic three-dimensional design using the various sculptural media. Fall. Spring. M&S fee: $15.00

ART 3161 CAH-ART 3(3,0) Mixed Media: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. Concepts and techniques involving the creation of art objects by integrating painting, sculpture, drawing, design, and art history. Occasional.

ART 3332C CAH-ART 3(2,4) Intermediate Drawing: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Intermediate problems in drawing, with emphasis on the human form. Fall, Spring.


ART 3504C CAH-ART 3(2,4) Intermediate Painting: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. Reinforces and extends methods and materials content of ART 2500C, and deals with issues of figurative painting. Fall, Even Spring. M&S fee: $15.00

ART 3616C CAH-ART 3(3,0) Animation Production Methods: PR: ART 2301C, ART 2305C, ART 2307C, ART 2301C, C.I. The development of a computer animation piece. All aspects of production will be covered. May be repeated for credit. Occasional. M&S fee: $15.00

ART 3618C CAH-ART 3(3,0) Post-Production Design: PR: Accepted into Animation program. Special effects and compositing for computer animation and film. Focus on the use of After Effects, Premier and Photoshop software. Occasional.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 3643C</td>
<td>Digital Effects &amp; Compositing</td>
<td>3,0</td>
<td>PR: Animation major. Special effects and compositing for computer animation and film. Focus on the use of After Effects, Premier and Photoshop or comparable software. Fall, Spring. M&amp;S fee: $35.00.</td>
</tr>
<tr>
<td>ART 3764C</td>
<td>Ceramic Handbuilding I</td>
<td>3,4</td>
<td>PR: Junior standing. Application of a variety of ceramic handbuilding procedures, including design, glaze application and firing process. Occasional. M&amp;S fee: $35.00.</td>
</tr>
<tr>
<td>ART 3833C</td>
<td>Processes and Ideas in Art</td>
<td>3,4</td>
<td>PR: Junior Standing. This course emphasizes the development of individual creativity and the generation of new insights concerning artistic expression. These &quot;formative activities&quot; must be manifested by students in the form of small sculptures and/or other forms of creativity. Occasional.</td>
</tr>
<tr>
<td>ART 3950C</td>
<td>Portfolio Review</td>
<td>0,0</td>
<td>PR: C.I. Review of relevant artistic works in a student's portfolio. Graded S/U. Fall, Spring.</td>
</tr>
<tr>
<td>ART 4132C</td>
<td>Advanced Fiber And Fabrics</td>
<td>3,4</td>
<td>PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2303C, and a satisfactory portfolio review or C.I. Textile design and production, including non-woven weaving processes. May be repeated for credit. Occasional. M&amp;S fee: $5.00.</td>
</tr>
<tr>
<td>ART 4173C</td>
<td>The Artist Book</td>
<td>3,0</td>
<td>PR: ART 2201C and ART 2203C. Course will explore the definition of book from traditional hand-made to contemporary artist book. Students will redefine its elements, structure and content and be exposed to binding and printing methods in book production. Fall, Even Spring. M&amp;S fee: $25.00.</td>
</tr>
<tr>
<td>ART 4320C</td>
<td>Advanced Drawing</td>
<td>3,4</td>
<td>PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3302C. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>ART 4402C</td>
<td>Advanced Printmaking</td>
<td>3,4</td>
<td>PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Advanced process in printmaking. May be repeated for credit. Even Fall, Spring. M&amp;S fee: $30.00.</td>
</tr>
<tr>
<td>ART 4505C</td>
<td>Advanced Painting</td>
<td>3,4</td>
<td>PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3504C, and a satisfactory portfolio review or C.I. Advanced problems in painting. May be repeated for credit. Fall, Spring. M&amp;S fee: $15.00.</td>
</tr>
<tr>
<td>ART 4634C</td>
<td>Web Art</td>
<td>3,1</td>
<td>PR: ART 2820 or C.I. The Web as a medium for art. Occasional.</td>
</tr>
<tr>
<td>ART 4710C</td>
<td>Advanced Sculpture</td>
<td>3,2</td>
<td>PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2701C, and a satisfactory portfolio review or C.I. May be repeated for credit. Fall, Spring. M&amp;S fee: $50.00.</td>
</tr>
<tr>
<td>ART 4783C</td>
<td>Advanced Ceramics</td>
<td>3,2</td>
<td>PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3760C, and a satisfactory portfolio review or C.I. Advanced problems in the ceramic process. May be repeated for credit. Fall, Spring. M&amp;S fee: $34.99.</td>
</tr>
<tr>
<td>ART 4905C</td>
<td>BFA Exhibit/Seminar</td>
<td>3,1</td>
<td>PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. This course is designed to prepare B.F.A. students for B.F.A. Exhibition. Fall, Spring. M&amp;S fee: $15.00.</td>
</tr>
<tr>
<td>ART 4954C</td>
<td>C.R.E.A.T. Project</td>
<td>6,0</td>
<td>PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, FIL 4288C, and a satisfactory portfolio review or C.I. A practicum in which specialists from Art, Film, Computer Science and other humanities design and develop a project in partnership with industry. Occasional.</td>
</tr>
<tr>
<td>ART 4954C</td>
<td>Scotland Study Abroad</td>
<td>3,0</td>
<td>PR: ART 2820, ART 2201C, ART 2301C or C.I. Study abroad in Edinburgh, Scotland. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>ART 4971C</td>
<td>Senior Thesis</td>
<td>3,0</td>
<td>PR: Senior Standing, Art major, C.I. A capstone thesis for Art Animation majors. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>ART 5109C</td>
<td>Multi-Cultural Crafts Design</td>
<td>3,4</td>
<td>PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, graduate status or senior standing, or C.I. The content of this course will include an appreciation for and the production of Western and Non-Western art forms. Occasional.</td>
</tr>
<tr>
<td>ART 5280C</td>
<td>Serial Content &amp; Classic Form I</td>
<td>3,3</td>
<td>PR: Admission to MFA. Studio course exploring serial imaging history, pictographs, alphabet development, typographic design, and the computer as a sequenced design concepts and tools. Fall.</td>
</tr>
<tr>
<td>ART 5284C</td>
<td>Design Theory and Methods</td>
<td>3,0</td>
<td>PR: Admission to MFA or C.I. Introduction to semiotic theory, communication theory, perceptual codes, human factors and visual rhetoric. Fall.</td>
</tr>
</tbody>
</table>


CROSSCULTURAL ELECTRONIC ART & DESIGN: PR: Admission to MFA. Explores digital/electronic art and technology from mid 20th century to present. Explores key electronic artists and issues of the "ars electronica" into the present. Spring. |

WebArt I: PR: Admission to MFA. Students will explore the web and experiment with pertinent software, as well as design and implement websites. Projects will be determined at the outset of each semester. Spring. |

Art, Design and Human Interactions: PR: Admission to MFA. 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. Spring. |

Concourse I: PR: ART 5910 and ART 5280C and ART 5694, or C.I. Digital reproduction of studio works. Fall. |

ART 5745C  | Physical and Virtual Sculpture | 3,0     | PR: Acceptance to MFA in Studio Art and the Computer or C.I. A course exploring historical (tactile) and contemporary (virtual) approaches to the creation of 3D sculptural objects. Occasional. |

The Professional Practice of Art: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C- (no graduate level prerequisite), graduate status or senior standing, or C.I. Seminar class on political information pertaining to professional practices in the art world. Overview of inventory processing, accounting, and the marketing of art. Fall. M&S fee: $15.00. |

Studio Concentration I: PR: Admission to MFA. Course is the primary for production of work in studio. 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 repeated for credit. (2 times). Fall, Spring. |


Graduate Practicum I: PR: Web Art I, graduate status, or C.I. 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. Occasional. |


The Modern Middle East: PR: Junior standing or C.I. History of the Middle East and North Africa from the 18th century to the present. Occasional. |
## UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Department</th>
<th>Title</th>
<th>Credits</th>
<th>Equivalent</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 4304</td>
<td>CAH-HIST</td>
<td>Women in China</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>ASH 4402</td>
<td>CAH-HIST</td>
<td>History of Chinese Civilization</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>ASH 4404</td>
<td>CAH-HIST</td>
<td>China in 19th and 20th Centuries</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>ASH 4442</td>
<td>CAH-HIST</td>
<td>Modern Japan, 19th and 20th Centuries</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>ASH 5227</td>
<td>CAH-HIST</td>
<td>The Arab-Israeli Conflict</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>ASH 5408</td>
<td>CAH-HIST</td>
<td>Colloquium in Modern China</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>AST 2002</td>
<td>COS-PHYS</td>
<td>Descriptive survey of solar system, galaxies and universe; physical properties of stars, H-R diagram, stellar evolution, black holes, neutron stars. Fall, Spring.</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>AST 2002H</td>
<td>COS-PHYS</td>
<td>Honors Astronomy</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>AST 2002L</td>
<td>COS-PHYS</td>
<td>Astronomy Lab</td>
<td>1(0,3)</td>
<td>CR: AST 2002. Laboratory experiments covering selected topics in astronomy related to AST 2002. Occasional. M&amp;S fee: $0.00</td>
</tr>
<tr>
<td>AST 3110</td>
<td>COS-PHYS</td>
<td>Solar System Astronomy</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>AST 3211</td>
<td>COS-PHYS</td>
<td>Stellar Astrophysics</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>AST 3402</td>
<td>COS-PHYS</td>
<td>Galaxies and Cosmology</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>AST 3722C</td>
<td>COS-PHYS</td>
<td>Techniques of Observational Astronomy</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>AST 4142</td>
<td>COS-PHYS</td>
<td>Asteroids, Comets, and Meteorites</td>
<td>3(3,0)</td>
<td>PR: AST 2002 or AST 3211. Asteroids, comets, and meteorites and their role in the origin and evolution of our solar system. Occasional.</td>
</tr>
<tr>
<td>AST 4501</td>
<td>COS-PHYS</td>
<td>Celestial Mechanics</td>
<td>3(3,0)</td>
<td>PR: PHY 2048, AST 2002. The orbital motions of celestial bodies, including orbit calculation, perturbation theory, and Hohmann transfer orbits. Occasional.</td>
</tr>
<tr>
<td>AST 5165</td>
<td>COS-PHYS</td>
<td>Planetary Atmospheres</td>
<td>3(3,0)</td>
<td>PR: Mechanics PHY 3220 and Modern Physics 3101, graduate status or senior standing, or C.I. This course will examine the physical and chemical processes that govern the behavior of the atmosphere of Earth and the other planets. Occasional.</td>
</tr>
<tr>
<td>BCH 4053</td>
<td>COS-CHEM</td>
<td>Biochemistry I</td>
<td>3(3,0)</td>
<td>PR: CHM 2211. A consideration of proteins, carbohydrates, nucleic acids, enzymes and their effect on biochemical systems, and inter-relation of intermediary metabolism. Fall, Spring.</td>
</tr>
<tr>
<td>BCH 4054</td>
<td>COS-CHEM</td>
<td>Biochemistry II</td>
<td>3(3,0)</td>
<td>PR: BCH 4053. Continuation of BCH 4053. Spring.</td>
</tr>
<tr>
<td>BCH 4103L</td>
<td>COS-CHEM</td>
<td>Biochemical Methods</td>
<td>2(0,6)</td>
<td>PR: BCH 4053. A laboratory course stressing the application of the chemical arts to the separation, identification, and quantification of materials of biological significance. Spring. M&amp;S fee: $45.00</td>
</tr>
<tr>
<td>BOT 3152C</td>
<td>COS-BIOL</td>
<td>Local Flora</td>
<td>3(1,4)</td>
<td>PR: BSC 2010C and BSC 2011C, or C.I. The study of the abiotic components of the plant kingdom in relation to the environment and natural systems. Designed for non-majors and non-seniors.</td>
</tr>
<tr>
<td>BOT 3800</td>
<td>COS-BIOL</td>
<td>Ethnobotany</td>
<td>3(3,0)</td>
<td>PR: C.I. Historical and modern uses of plants economically important in various cultures. Designed for majors and non-majors. Spring.</td>
</tr>
<tr>
<td>BOT 4223C</td>
<td>COS-BIOL</td>
<td>Plant Anatomy</td>
<td>3(3,4)</td>
<td>PR: BSC 2010C and BSC 2011C, or C.I. A study of development, structure and function of the principal organs and tissue of vascular plants. Occasional. M&amp;S fee: $15.00</td>
</tr>
<tr>
<td>BOT 4303C</td>
<td>COS-BIOL</td>
<td>Plant Kingdom</td>
<td>5(3,6)</td>
<td>PR: BSC 2010C and BSC 2011C, or C.I. A survey of the plant kingdom utilizing comparative morphology, structure and functions to demonstrate relationships among extant and extinct forms. Occasional. M&amp;S fee: $40.00</td>
</tr>
<tr>
<td>BOT 4503</td>
<td>COS-BIOL</td>
<td>Plant Physiology</td>
<td>3(3,0)</td>
<td>PR: PCB 3023 or C.I. A study of mechanisms used by plants to cope with the environment. Occasional.</td>
</tr>
<tr>
<td>BOT 4503L</td>
<td>COS-BIOL</td>
<td>Plant Physiology Laboratory</td>
<td>1(0,3)</td>
<td>CR: BOT 4503. The laboratory to accompany BOT 4503. Occasional. M&amp;S fee: $15.00</td>
</tr>
<tr>
<td>BOT 4686C</td>
<td>COS-BIOL</td>
<td>Conservation and Management of Native Plants</td>
<td>4(3,3)</td>
<td>PR: BCH 4053. Systematic classification and identification of vascular plants, with emphasis on the flora of the Florida peninsula. Occasional. M&amp;S fee: $45.00</td>
</tr>
<tr>
<td>BOT 4713C</td>
<td>COS-BIOL</td>
<td>Plant Taxonomy</td>
<td>5(3,6)</td>
<td>PR: BSC 2010C and BSC 2011C, or C.I. Systematic classification and identification of vascular plants, with emphasis on the flora of the Florida peninsula. Occasional. M&amp;S fee: $45.00</td>
</tr>
<tr>
<td>BOT 5485C</td>
<td>COS-BIOL</td>
<td>Terrestrial Cryptogams</td>
<td>3(2,3)</td>
<td>PR: BCH 4053. Systematic classification and identification of vascular plants, with emphasis on the flora of the Florida peninsula. Occasional. M&amp;S fee: $15.00</td>
</tr>
<tr>
<td>BOT 5623C</td>
<td>COS-BIOL</td>
<td>Plant Geography and Ecology</td>
<td>4(3,3)</td>
<td>PR: PCB 3044, and graduate status or senior standing or C.I. The study of the abiotic and biotic processes that control the distribution of terrestrial flora at local, landscape, and global scales. Occasional. M&amp;S fee: $15.00</td>
</tr>
<tr>
<td>BSC 1005</td>
<td>COS-BIOL</td>
<td>Biological Principles</td>
<td>3(3,0)</td>
<td>PR: Permission of Honors. Biological factors that affect dependence on the environment; the role of human population preserving ecological integrity. Occasional.</td>
</tr>
<tr>
<td>BSC 1005H</td>
<td>COS-BIOL</td>
<td>Biological Principles-Honors</td>
<td>3(3,0)</td>
<td>PR: Permission of Honors. Biological factors that affect dependence on the environment; the role of human population preserving ecological integrity. Occasional.</td>
</tr>
<tr>
<td>BSC 1005L</td>
<td>COS-BIOL</td>
<td>Biological Principles Laboratory</td>
<td>1(0,2)</td>
<td>CR: BSC 1005. The laboratory to accompany BSC 1005. Fall, Spring. M&amp;S fee: $15.00</td>
</tr>
<tr>
<td>BSC 1050</td>
<td>COS-BIOL</td>
<td>Biology and Environment</td>
<td>3(3,0)</td>
<td>PR: Permission of Honors. Biological implications of the interaction among human society, population, and technology in relation to the environment and natural systems. Designed for non-majors. Occasional.</td>
</tr>
<tr>
<td>BSC 1050H</td>
<td>COS-BIOL</td>
<td>Biology and Environment-Honors</td>
<td>3(1,4)</td>
<td>PR: Permission of Honors. Biological implications of the interaction among human society, population, and technology in relation to the environment and natural systems. Field trips required. Designed for Honors non-majors. Occasional.</td>
</tr>
</tbody>
</table>
BSC 1050L COS-BIOL 1(0,2)  
Biology and Environment Laboratory: CR: BSC 1050. The laboratory to accompany BSC 1050. Optional. M&S fee: $15.00

BSC 2010C COS-BIOL 4(3,2)  
Biology I: PR: High school biology or C.I. Open only to students whose major requires this specific course. Cellular and chemical basis of life, genetics, and the theory of evolution. Emphasis on problem solving, analysis, synthesis of information, and applying data effectively. Fall, Spring. M&S fee: $24.00

BSC 2010H COS-BIOL 4(3,3)  
General Biology Honors: PR: Permission of Honors. Priority given to students whose major requires this course. Basic principles and unifying concepts of modern biology. Introduction to quantitative experimentation using intensive, open-ended labs. Fall, Spring. M&S fee: $24.00

BSC 2011C COS-BIOL 4(3,3)  
Biology II: PR: BSC 2010C or C.I. Open only to students whose major requires this specific course. Continuation of BSC 2010C. Organismal anatomy and physiology as it relates to biodiversity, ecology and evolution. Emphasis on problem solving, analysis, synthesis of information, and applying data effectively. Fall, Spring. M&S fee: $20.00

BSC 2121H COS-BIOL 4(2,6)  
Honors Biodiversity: PR: Permission of Honors and BSC 2010H or C.I. BSC 2011C for honors students; enhanced by considerable field work, a CD-ROM "text," relevant video programs and readings written by authorities in the field. Occasional.

BSC 2420 BCBS-M&M 3(3,0)  

BSC 3302C BCBS-M&M 4(3,4)  
Quantitative Biological Methods: PR: BSC 2121C, MCB 3020C, CHM 2046A. A laboratory course which presents modern methods and instrumentation used in quantitative biological experimentation. Fall, Spring. M&S fee: $25.00

BSC 3403H BCBS-M&M 4(3,4)  
Quantitative Biological Methods-Honors: PR: Consent of Honors, BSC 2010C, MCB 3020C, CHM 2046A. A laboratory course which presents the concepts, modern methods, techniques and instrumentation used in quantitative biological and molecular experimental biology. Honors level content. Fall.

BSC 3424 BCBS-M&M 3(3,0)  
Nanobiotechnology: PR: MCB 3130, and either CHM 2046 or PHY 2054C. Biological processes in nano scale interactions with elements of physics & engineering. Occasional.

BSC 3949 COS-BIOL 0(0,8)  

BSC 4101 COS-BIOL 3(3,0)  
CCE 4003  ECS-CEE  3(3,0)

CCE 4004  ECS-CEE  3(3,0)
Construction Methods: PR: CES 4100C. Construction project evaluation principles along with construction methods for civil and structural systems. Spring.

CCE 4031  ECS-CEE  3(3,0)
Construction Project Management: PR: EGN 3613. Project management in the construction industry. Project financial evaluation on a life cycle basis. Essentials of project management such as estimating, scheduling, contracts, and administration. May be repeated for credit. Occasional.

CCE 4034  ECS-CEE  3(3,0)
Construction Estimating and Scheduling: PR: CCE 4003. This course covers construction project estimating and bidding and the preparation of construction schedules. This is followed by in-depth coverage of time and cost control. Fall.

CCE 4402  ECS-CEE  3(3,0)
Construction Equipment and Productivity: PR: CCE 4003, CWR 3201. Selection of appropriate equipment based on operational parameters, principles of construction productivity measurement and analysis, and discrete event simulation. Spring.

CCE 4810C  ECS-CEE  3(2,2)
Construction Design Project: PR: Senior Standing, CCE 4034, and CCE 4004. The preparation and development of a proposal and plan for a construction project, including construction engineering systems, site facilities, construction methods, coordination, and control. Spring.

CCE 4813  ECS-CEE  4(4,0)

CCE 5006  ECS-CEE  3(3,0)
Introduction to Construction Industry: PR: post-bacc status or C.I. This course introduces students to the construction industry. Topics include project evaluation, project phases, project delivery systems, contracts, estimating and scheduling drawings, and specification. Research paper required. Occasional.

CCE 5036  ECS-CEE  3(3,0)
Construction Estimation and Scheduling: PR: C.I. Provides students with an understanding of estimating and scheduling of construction projects. Topics include detailed estimates, scheduling and project control. Research paper required. Occasional.

CCE 5205  ECS-CEE  3(3,0)
Construction Methods: PR: post-bacc status or C.I. This class covers construction project evaluation principles along with construction methods for civil and structural systems. Occasional.

CCE 5406  ECS-CEE  3(3,0)

CCE 5815  ECS-CEE  4(4,0)
Mechanical and Electrical Systems for Buildings: PR: C.I. This course covers the design and construction of mechanical and electrical systems for buildings. Research paper required. Occasional.

CCJ 3014  HPA-CJ/LS  3(3,0)
Crime in America: A survey of crime and criminality in the United States, with emphasis on crime data, its weaknesses, and types of criminal behavior. Fall, Spring.

CCJ 3024  HPA-CJ/LS  3(3,0)
Criminal Justice System: An examination of the components and of their interdependence in light of their traditional autonomy. Fall, Spring.

CCJ 3058  HPA-CJ/LS  3(3,0)

CCJ 3450  HPA-CJ/LS  3(3,0)

CCJ 3451  HPA-CJ/LS  3(3,0)
Justice System Technology: PR: CCJ 3024 or C.I. An examination of the relevance of scientific and technological developments to justice systems and their applicability to the operations and management of the systems. Occasional.

CCJ 3483  HPA-CJ/LS  4(4,0)
Labor Relations in Criminal Justice: PR: CCJ 3024 and CCJ 3450 or C.I. Examine the role of public sector labor relations in criminal justice to include management-employee relationships, collective bargaining process, employee organizations, and federal-state laws. Occasional.

CCJ 3520H  HPA-CJ/LS  3(3,0)
Honors Juvenile Offenders: An Integrative Perspective: PR: Permission of Honors. To provide students with an integrative understanding of the social, psychological, and legal dynamics evident in processing juvenile offenders. Occasional.

CCJ 3667  HPA-CJ/LS  3(3,0)
Victims and the Criminal Justice System: PR: CCJ 3024. Course examines victims as they affect the Criminal Justice system, the dimensions of criminal victimization, and victim offender programs. Occasional.

CCJ 4035  HPA-CJ/LS  3(3,0)
Crime and the Media: PR: CCJ 3024 or C.I. Explore how the criminal justice system, criminals, and crime are portrayed in the media and its impact on society and the criminal justice system. Fall, Spring.

CCJ 4076  HPA-CJ/LS  3(3,0)
Crime Analysis II: PR: CJE 4654, CJE 4663. Designed to review and analyze evidence pertaining to violent crimes. Occasional.

CCJ 4195  HPA-CJ/LS  3(3,0)
Interviews & Interrogations in CJ: PR: CCJ 3024. The criminal justice interview process including history of criminal justice interviews, the use of Miranda, non-verbal listening, and the rules of testimonial evidence. Fall, Spring.

CCJ 4296  HPA-CJ/LS  3(3,0)
Famous Crimes & Trials: PR: CCJ 3014 or CCJ 3024 or consent of instructor. A detailed examination of selected famous American crimes and trials since 1900. Occasional.

CCJ 4361  HPA-CJ/LS  3(3,0)
Death Penalty: PR: CCJ 3024. This course provides students an opportunity to analyze and discuss complex issues surrounding the death penalty and the criminal justice system. Occasional.

CCJ 4454  HPA-CJ/LS  3(3,0)
Policy Development in Law Enforcement: PR: CJE 4014. The course is designed to deal with policy development in law enforcement. Major issues of organization, administration, personnel practices and police operations will be addressed. Occasional.

CCJ 4459  HPA-CJ/LS  3(3,0)
Justice Agency Operations: PR: CCJ 3024 and CCJ 3450 or C.I. Elements, functions, and processes essential to the continuing management of various criminal justice agencies, institutions, and court systems. Occasional.

CCJ 4463  HPA-CJ/LS  3(3,0)
Cultural Diversity in Criminal Justice: PR: CCJ 3024. This course focuses on the problems and issues associated with race, ethnic and gender relations in the administration of justice in a democratic society. Occasional.

CCJ 4484  HPA-CJ/LS  3(3,0)
Liability Issues in Criminal Justice: PR: CCJ 3024. Student of fundamental concepts found in civil law with an emphasis on civil liability regarding criminal justice practices. Occasional.

CCJ 4486  HPA-CJ/LS  3(3,0)
Criminal Justice Ethics: Focuses on the ethical issues and problems commonly encountered in the criminal justice system (policy courts and corrections). Occasional.

CCJ 4616  HPA-CJ/LS  3(3,0)
Criminal Profiling in Criminal Justice: PR: CCJ 3014. Examines criminal profiling undertaken by law enforcement and prosecution authorities which consists of gathering, reviewing and analyzing evidence pertaining to violent crimes. Occasional.

CCJ 4641  HPA-CJ/LS  3(3,0)
Organized Crime: An examination of organized crime, including structures, history and activities, and of issues surrounding efforts to define and control it. Occasional.

CCJ 4644  HPA-CJ/LS  3(3,0)

CCJ 4651  HPA-CJ/LS  3(3,0)
Drugs and Crime: Focuses on the problems of drugs and drug control in contemporary society. Students will examine the problems of drugs in our society as well as specific strategies used by criminal justice agencies to prevent and control illicit drug use. Fall, Spring.

CCJ 4661  HPA-CJ/LS  3(3,0)
Terrorism: PR: CCJ 3024 and CJE 4014 or C.I. An examination of competing ideologies of a variety of social and political conflicts (both international and domestic) that give rise to terrorism and of the implications for the criminal justice system. Occasional.
CCJ 4670 HPA-CJ/LS 3(3,0) Women and Crime: This course covers women in criminal justice as offenders and prisoners, as well as crime victims and professionals working in the system. Occasional.


CCJ 4690 HPA-CJ/LS 3(3,0) Sex Offenders and the Criminal Justice System: PR: CCJ 3024. Provides students a better understanding of how the criminal justice system deals with sex offenders and their offenses. Odd Fall, Spring.

CCJ 4701 HPA-CJ/LS 3(3,0) Research Methods in Criminal Justice: Overview of the social science research methodology used in criminal justice, covers the major forms of research designs used by social science and evaluates their strengths and weaknesses. Fall, Spring.

CCJ 4934 HPA-CJ/LS 1-3 (3-3,0) Emergent Criminal Justice Issues: PR: CCJ 3014, CCJ 3024 or C.I. Developing trends and issues in criminal justice facing administrators, practitioners, and researchers. May be repeated for credit. Occasional.

CCJ 5015 HPA-CJ/LS 3(3,0) The Nature of Crime: 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. Fall, Spring.

CCJ 5040 HPA-CJ/LS 6(6,0) International Perspectives on Law and Justice: PR: C.I. or graduate standing. Examination of the legal and criminal justice systems of other nations and territories through lecture, seminar, research and field visits. Occasional.

CCJ 5073 HPA-CJ/LS 3(3,0) Data Management Systems for Crime Analysis: PR: Graduate standing or C.I. This course is designed to provide the conceptual basis, understanding, and skills necessary for complex crime data manipulation. Fall.


CCJ 5406 HPA-CJ/LS 3(3,0) Research and Technology Implementation: Changing roles of social and physical sciences as related to the objectives and administration of public safety agencies. Occasional.

CCJ 5456 HPA-CJ/LS 3(3,0) The Administration of Justice: 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. Fall, Spring.

CCJ 5467 HPA-CJ/LS 3(3,0) Justice and Safety System Manpower: Processes essentials to administration to human resources in criminal justice and public safety agencies; structure and processes for acquisition, training, and maintenance of personnel. Occasional.


CCJ 5675 HPA-CJ/LS 3(3,0) Human Rights & Criminal Justice: PR: Senior scholar or graduate standing or C.I. 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. Occasional.

CCJ 5704 HPA-CJ/LS 3(3,0) Research Methods in Criminal Justice: An examination of the philosophy and techniques of research as applied in the Criminal Justice field. Fall, Spring.

CCJ 5931 HPA-CJ/LS 3(3,0) Contemporary Criminal Justice Strategies: PR: Graduate standing or C.I. 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 repeated for credit. (2 times). Occasional.

CCJ 5934 HPA-CJ/LS 1(1,0) Criminal Justice Investigative Process: PR: Graduate standing or C.I. Advanced seminar providing students with a broad view of how criminal justice investigative processes operate. Focuses on the roles and responsibilities of agents as investigators. May be repeated for credit. (3 times). Occasional.


CDA 4150 ECS-CS 3(3,0) Computer Architecture: PR: COP 3402 and CDA 3103C. Basic processor design, hardware and microprogrammed control, ALU, memory organization, pipelining, I/O and computer arithmetic. Fall, Spring.

CDA 4150H ECS-CS 3(3,0) Honors Computer Architecture: PR: Permission of Honors and COP 3402 and CDA 3103C. Same as CDA 4150 with Honors level content. Occasional.

CDA 4506C ECS-CS 3(1,2) Design and Implementation of Computer Communication Networks: PR: COP 3502C, MAD 2104 or COT 3100C. Data communication networking technologies (TCP/IP, Ethernet, Gigabit Ethernet, ATM, Frame Relay), protocols (routers, switches, adapters, cabling). Base design and detailed configuration including hands-on exercises. Fall, Spring.

CDA 4527 ECS-CS 3(3,0) Analysis of Computer Communication Networks: PR: COT 3100C, STA 2023, MAD 2102, Network design using layering. Introduces cabling, topology, architecture, hardware and software. Includes performance and control issues such as congestion control, error control, contention resolution. Occasional.

CDA 5106 ECS-CS 3(3,0) Advanced Computer Architecture I: PR: CDA 4150. Instruction set architectures, processor implementation, memory hierarchy, pipelining, computer arithmetic, vector processing, and I/O. Fall, Spring.

CDA 5110 ECS-CS 3(3,0) Parallel Architecture and Algorithms: PR: COP 4210, CDA 5106. 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. Occasional.

CDA 5215 ECS-CS 3(3,0) Architecture and Design of VLSI: PR: CDA 4150 or equivalent. Overview of VLSI technology, Logical design of basic subsystems, integrated system design tools, design of a VLSI computer system. Occasional.


CEG 3301 ECS-CS 3(3,0) Engineering and Environmental Geology: PR: CEG 2200 and CEG 3310. Study of land forms, geologic maps, geologic structure, weathering, groundwater, mass wasting, and earthquakes. Occasional.


CEG 4901C ECS-CS 3(2,2) Geotechnical Engineering Design: PR: CEG 4101C. Project course on design of foundations and other soil structures using geotechnical design methodologies. Fall, Spring. M&S fee: $15.00

CEG 4812 ECS-CS 1(1,0) Historical Developments in Civil Engineering: Seminar covering major historical developments in civil engineering. Occasional.

CEG 5015 ECS-CS 3(3,0) Geotechnical Engineering II: PR: CEG 4101C. Continuation of CEG 4101C with emphasis on shear strength and design factors for earth pressures, bearing capacity, and slope stability. Occasional.

CEG 5700 ECS-CS 3(3,0) Geo-Environmental Engineering: PR: CEG 4101C. Geotechnical applications to environmental problems, groundwater flow, soil contamination and groundwater contamination transport, geosynthetic and stability of landfill design, control of contaminated sites. Occasional.

CEN 4020 ECS-CS 3(3,0) Component-based Engineering Software: PR: EEL 4851C, EEL 4882. In-depth treatment of component-based software development including analyst design and implementation of correct and reusable software in different component levels. Occasional.
CEN 5016 ECS-CS 3(3,0) Software Engineering: PR: COP 4331C. Application of formal software processes, engineering methods, and documentation standards to the development of large scale software systems. A team project is required. Spring.


CET 2364 ECS-ENT 3(3,0) Systems Applications in C: PR: MAC 1105. Use of C language in control of system processes, DOS and BIOS interrupts, and interfacing with assembly language. May be repeated for credit. Fall, Spring.

CET 3010 ECS-ENT 3(3,0) Introduction to Information Technology: PR: MAC 1105. An introduction to IT field, including binary representation, graphics, data compression, Information Theory, transmission and storage technology, and communications. Fall, Spring.


CET 3198C ECS-ENT 3(3,2) Digital Systems: PR: DC Circuits and Digital Circuits I. Finite State Machines and Algorithmic State Machines, includes design, synthesis and implementation of a digital system using schematic capture and VHDL. Spring. M&S fee: $12.00.

CET 3323C ECS-ENT 4(3,2) Digital Technology: PR: MAC 1105 and C.I. Digital logic gates, memory devices, Karnaugh Maps, combinational logic, arithmetic units, registers and sequential logic. Fall, Spring.

CET 3383 ECS-ENT 3(3,0) Applied Systems Analysis I: PR: CET 2364 or equivalent. Study of system analysis, design, development and implementation cycle. Includes Object Oriented Programming (OOP) to implement system programs. May be repeated for credit. Spring.

CET 3503 ECS-ENT 3(3,0) Microcomputer Technology I: PR: High level programming language. Microcomputer assembly programming, including overview of architecture and operating system environment. Fall.

CET 3529 ECS-ENT 3(3,0) Linux/Unix System Admin and Applications: PR: CET 2364 or equivalent. Installation, creation and maintenance of file systems, backups, and configuration. Fall, Spring.

CET 3752 ECS-ENT 3(3,0) Intro to Telephony: PR: EET 3085C or equivalent or C.I. An introductory level course in telephony technology. The telephony environment, telemanagement, telephony connectivity and services of telephony. Fall.

CET 4134C ECS-ENT 3(2,4) Microprocessor Electronics II: PR: Digital Circuits I and CET 2123C. The MC68000 Architecture: hardware architecture and instruction set overview. Assembly language programming interfacing and hardware characteristics as well as applications are considered. Occasional. M&S fee: $45.00.

CET 4138C ECS-ENT 3(3,2) Digital Programmable Devices: PR: CET 3198C or equivalent and C.I. Architecture and applications of various types of programmable logic devices. Design entry methods, e.g. HDL, schematic capture, etc. Lab exercises using PALs, PLDs, and FPGA's. Occasional.

CET 4333 ECS-ENT 3(3,0) Computer Organization and Design: PR: CET 3323C. Basic computer architecture and system design. An introduction to memory, processor, bus and I/O organization. Occasional.

CET 4427 ECS-ENT 3(3,0) Applied Database I: PR: CET 2364 or equivalent. Design and implementation of data base systems within the concept of central administration, structured data storage. Programming project. May be repeated for credit. Fall, Spring.

CET 4429 ECS-ENT 3(3,0) Applied Database II: PR: CET 4427. Continuation of CET 4427. Study of hierarchical database systems. Programming project is required. May be repeated for credit. Spring.


CET 4483 ECS-ENT 3(3,0) Intro to Local Area Network Technology: PR: EET 3085C or equivalent or C.I. An introductory level course in local area networks. Topics in data communications, computer networking, local area network technology, topologies, and protocols will be covered. May be repeated for credit. Spring.

CET 4505 ECS-ENT 3(3,0) Applied Operating Systems I: PR: CET 2364. Modifying the operating systems to support new types of devices. Analysis of limitations and strengths of commercial mass storage operating systems in industry. O.S. tool box usage. May be repeated for credit. Fall.

CET 4523 ECS-ENT 3(3,0) Applied Systems Analysis II: PR: CET 3383. Continuation of CET 3383, with emphasis on distributed processing which includes the interfacing of minis, mainframes, software, communications, and data base technology into a responsive information system. Occasional.

CET 4583 ECS-ENT 3(3,0) Web Based Systems I: PR: CET 2364. Introduction to web systems with emphasis on server configuration, web standards, and portal design. Occasional.

CET 4584 ECS-ENT 3(3,0) Web Based Systems II: PR: CET 4583. Advanced web design concentration on use of current technology (CGI, Java, XML, DHTML) to provide interactivity. Fall.


CET 4741L ECS-CS 3(0,3) Computer Networking Laboratory: PR: C.I. Laboratory exercises to enhance the understanding of concepts/principles discussed in computer networking and data communication texts. Occasional.
UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGN 4808C</td>
<td>Civil Engineering Capstone Design: PR: one of the following courses - TTE 4601C, CES 4608C, CES 4709C, CWR 4821C, ENV 4562C, CES 4801C, or CES 4806C. An interdisciplinary capstone design experience requiring problem definition, data collection, analysis of alternatives, economic evaluation of alternatives, and oral and written presentation of final design. Occasional.</td>
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<tr>
<td>CGN 5506C</td>
<td>Asphalt Concrete Mix Design: PR: CEG 4101C. Properties of asphalt, aggregate and asphalt mixtures, Marshall mix design, Hveem mix design, pavement rehabilitation. Occasional.</td>
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<tr>
<td>CGS 1060C</td>
<td>Introduction to Computer Science: History, typical computer, number systems, control and data flow, peripheral components, memory devices, effects of computers on society, applications of computers. Not open to Computer Science Majors. Fall, Spring. M&amp;S fee: $15.00</td>
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<tr>
<td>CGS 1060H</td>
<td>Honors Introduction to Computer Science: PR: Permission of Honors. History, number systems, control and data flow, peripheral components, memory devices, effects of computers on society, applications of computers. Not open to Computer Science Majors. Occasional. M&amp;S fee: $15.00</td>
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<tr>
<td>CGS 2100C</td>
<td>Computer Fundamentals for Business: Uses of computers and software in business, including business applications, commercial packages, and the Internet. Not open to Computer Science majors. Fall, Spring. M&amp;S fee: $15.00</td>
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<tr>
<td>CGS 2515</td>
<td>Spreadsheet Concepts: PR: CGS 1060C. Advanced techniques of spreadsheets, charts, macros, objects, database features and data analysis tools. Occasional.</td>
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<tr>
<td>CGS 2545C</td>
<td>Database Concepts: PR: CGS 1060C or equivalent. Entity-relation model, relational database management systems, normal forms, performance or databases, reporting generation. Fall, Spring.</td>
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<tr>
<td>CGS 2585C</td>
<td>Desktop and Internet Publishing: PR: CGS 1060C or equivalent. Principles and techniques of page layout and formatting for documents and newsletters, presentation techniques, construction of web pages and design of integrated websites. Occasional.</td>
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<tr>
<td>CGS 3175</td>
<td>Internet Applications: PR: CGS 1060C. HTML coding, using images, sound and animation, advanced text formatting, forms and CSS scripts, introduction to JavaScript. Fall, Spring.</td>
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<tr>
<td>CHI 1120</td>
<td>Chinese Language and Civilization I: Designed to initiate the student to the major language skills: listening, speaking, reading and writing. Fall.</td>
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<tr>
<td>CHI 1121</td>
<td>Chinese Language and Civilization II: PR: CHI 1120 or equivalent. Continuation of CHI 1120. Spring.</td>
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<tr>
<td>CHI 1140H</td>
<td>Honors Elementary Chinese Language and Civilization I: PR: Permission of Honors. Introduces the student to Chinese culture through the major language skills: Listening, speaking, reading and writing. Open only to students with no experience in the language. Honors level content. Occasional.</td>
<td></td>
</tr>
<tr>
<td>CHM 1020</td>
<td>Concepts in Chemistry: PR: High school Algebra. Concepts will be examined to provide insight into the significant role that chemistry plays in our culture. Intended as a general education course. Fall, Spring.</td>
<td></td>
</tr>
<tr>
<td>CHM 1032</td>
<td>General Chemistry: PR: MAC 1105 or MGF 1106 or equivalent. An introductory study of the fundamental concepts of chemistry, primarily oriented toward Health Science majors. The &quot;NC&quot; grading policy applies to this course. Fall, Spring.</td>
<td></td>
</tr>
<tr>
<td>CHM 1032L</td>
<td>General Chemistry Laboratory: PR: or CR: CHM 1032. Preference will be given to students whose major requires this course. An introductory study of physical and chemical properties of elements and compounds. Fall, Spring. M&amp;S fee: $45.00</td>
<td></td>
</tr>
<tr>
<td>CHM 2045C</td>
<td>Chemistry Fundamentals I: PR: High school chemistry or CHM 1032. Basic physical theory of chemical reactivity, atomic structure, chemical bonding, periodicity, stoichiometry, equilibria, thermodynamics, and kinetics. The &quot;NC&quot; grading policy applies to this course. Fall, Spring. M&amp;S fee: $25.00</td>
<td></td>
</tr>
</tbody>
</table>
CHM 2045H COS-CHEM 4(3,3) Honors Chemistry Fundamentals I: PR: High school chemistry and permission of Honors. Same as CHM 2045 with honors-level content. Fall, Spring. M&S fee: $25.00

CHM 2046 COS-CHEM 3(3,0) Experimental Methods I: PR: "C" grade or better in CHM 2045C. Continuation of CHM 2045C. Fall, Spring.

CHM 2046H COS-CHEM 3(3,0) Honors Chemistry Fundamentals II: PR: CHM 2045H and permission of Honors. Same as CHM 2046 with honors-level content. Spring.

CHM 2046L COS-CHEM 1(0,3) Honors Chemistry Fundamentals Lab: PR: CHM 2045H and CR: CHM 2046L. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry with honors-level content. Spring. M&S fee: $35.00

CHM 2205 COS-CHEM 5(5,0) Introduction to Organic and Biochemistry: PR: CHM 1032 or equivalent. An introduction to organic chemistry, stressing the chemistry of functional groups and a survey of the biochemistry of proteins, carbohydrates, lipids, and nucleic acids. Spring.


CHM 2211L COS-CHEM 2(0,6) Organic Chemistry Laboratory I: PR: CHM 2210. An introduction to the laboratory techniques of organic chemistry, including the preparation, reaction, and analysis of organic compounds. Fall, Spring. M&S fee: $45.00

CHM 3120 COS-CHEM 3(3,0) Analytical Chemistry: PR: CHM 2046, CHM 2046L. Classical and instrumental analysis. Choice of preferred analytical methods and techniques is emphasized through applications involving both inorganic and organic systems. Fall, Spring.

CHM 3120L COS-CHEM 1(0,3) Analytical Chemistry Laboratory: PR: CHM 2046, CHM 2046L. Experimental exercises of quantitative methods of analysis utilizing titrimetric, gravimetric, potentiometric and photometric methods of analysis including statistical treatment of experimental data. Occasional. M&S fee: $25.00

CHM 3212L COS-CHEM 2(0,6) Organic Laboratory Techniques I: PR: CHM 2211 and CHM 2211L. Open-end laboratory to develop synthesis techniques and structure elucidation skills. Fall. M&S fee: $45.00

CHM 3410 COS-CHEM 4(3,1) Physical Chemistry I: PR: CHM 2046, PHY 2049, and MAC 2312. Rigorous treatment of atomic and molecular structure, thermodynamics, kinetics, and chemical bonding. Fall.
<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 3540C</td>
<td>Fire and Debris Analysis I: 2(C,3)</td>
<td>PR: CHM 3120 and C.I. A lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in fire related evidence. Occasional.</td>
</tr>
<tr>
<td>CHS 3595</td>
<td>Forensic Science in the Courtroom: 3(3,0)</td>
<td>PR: CHS 3501. The special needs of the forensic scientist in preparing for and participating in courtroom proceedings. Spring.</td>
</tr>
<tr>
<td>CHS 3949</td>
<td>Cooperative Education in Chemistry: 0(0,8)</td>
<td>PR: Departmental permission required before registering. Cooperative education experience in chemistry. May be repeated. Graded SU. Occasional.</td>
</tr>
<tr>
<td>CHS 4200</td>
<td>Concepts in Industrial Chemistry: 3(3,0)</td>
<td>PR: CHM 3410. An introduction to industrial practices, emphasizing the application of chemical principles in the development of a commercial process or product. Occasional.</td>
</tr>
<tr>
<td>CHS 4506C</td>
<td>Forensic Investigation Technology: 3(2,3)</td>
<td>PR: A grade of &quot;C&quot; or better in CHS 3511C. Modern technology applied to forensic investigation. Occasional.</td>
</tr>
<tr>
<td>CHS 4515C</td>
<td>Forensic Crime Scene Investigation: 4(2,6)</td>
<td>PR: Grade of &quot;C&quot; or better in CHS 3120, CHS 3511C, CHS 3503C, and CHS 4506C. Procedures for the investigation of arson, explosives, and crime scenes. Occasional.</td>
</tr>
<tr>
<td>CHS 4532</td>
<td>Interpretation of DNA Evidence: 3(3,0)</td>
<td>PR: Grade of &quot;C&quot; or better in CHS 3533C. Concepts and principles of genetic data analysis as applied to forensics. Occasional.</td>
</tr>
<tr>
<td>CHS 4537</td>
<td>Forensic Laboratory Quality Assurance: 2(2,0)</td>
<td>PR: Grade of &quot;C&quot; or better in CHS 3501, CHS 3535C, and CHS 3533C. Concepts and principles of quality assurance and quality systems management in forensic laboratories. Odd Fall.</td>
</tr>
<tr>
<td>CHS 4541C</td>
<td>Fire and Debris Analysis II: 2(1,3)</td>
<td>PR: CHS 3540C or C.I. An advanced lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in real fire related evidence. Occasional.</td>
</tr>
<tr>
<td>CHS 4591</td>
<td>Forensic Science Internship: 4(0,40)</td>
<td>PR: Senior standing, within 8 hrs. of completion of degree requirements, and 2.5 overall GPA. Credit for full-time work (15 weeks; 600 hours) for a professional forensic laboratory. This course may be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>CHS 4615</td>
<td>Environmental Chemistry: 3(3,0)</td>
<td>PR: CHM 2046, senior level in biological, chemical or engineering sciences, and C.I. Principles of environmental chemistry, survey of environmental laws, remediation technologies, industrial practices and environmentally responsible chemistry. Odd Spring.</td>
</tr>
<tr>
<td>CHS 5502</td>
<td>Principles of Forensic Science: 3(3,0)</td>
<td>PR: Admission to Forensic Science M.S. program or C.I. Principles of forensic science crime scene investigation, concepts in physical and biological evidence, evidence collection and transport, discrimination and individualization of evidence. Occasional.</td>
</tr>
<tr>
<td>CHS 5503</td>
<td>Topics in Forensic Science: 3(3,0)</td>
<td>PR: Graduate status or C.I. Will include the history of Forensic Science and current issues such as Digital Evidence. Occasional.</td>
</tr>
<tr>
<td>CHS 5518</td>
<td>The Forensic Collection and Examination of Digital Evidence: 3(3,0)</td>
<td>PR: Adv topics in Forensic Science, graduate status, or C.I. This course will cover the nature of Digital Evidence collection and examination under the contrasts of Law and courtroom procedures. Occasional.</td>
</tr>
<tr>
<td>CHS 5596</td>
<td>The Forensic Expert in the Courtroom: 3(3,0)</td>
<td>PR: CHS 3533C, CHS 6535, and C.I. A study of the uses of technologically and scientifically trained expert witnesses at trial. Spring.</td>
</tr>
<tr>
<td>CIS 4361</td>
<td>Secure Operating Systems and Administration: 3(3,0)</td>
<td>PR: COP 4600 or EEL 4862 or CET 4505. Understanding of secure operating systems requirements, systems requirements, design principles and theories, protection methods, access control, authentication, vulnerability, analysis and case studies. Occasional.</td>
</tr>
<tr>
<td>CIS 4363</td>
<td>Network Security and Privacy: 3(3,0)</td>
<td>PR: CDA-4506C or equivalent, CIS 3390, CIS 3362, and COP 3503C. Fundamentals of network security protocols, secure applications, network intrusion detection, security policy, firewalls, and privacy issues. Occasional.</td>
</tr>
<tr>
<td>CIS 4615</td>
<td>Secure Software Development and Assurance: 3(3,0)</td>
<td>PR: CDA-4506C or equivalent, COP 4331C, CIS 3360, and CIS 3362. Thread modeling, Secure code life-cycle, Buffer overflows, race conditions and format string problems, Inputs and clients, File system, Cryptography applications, UM/Lsec, Java security and Reverse engineering. Occasional.</td>
</tr>
<tr>
<td>CJC 3134</td>
<td>Prisons and jails: 3(3,0)</td>
<td>PR: CCJ 3020. An overview and analysis of issues in institutional corrections, focusing on prison and jail history, inmates, guards, administration and management, and programming. Occasional.</td>
</tr>
<tr>
<td>CJC 3164</td>
<td>Community-Based Corrections: 3(3,0)</td>
<td>PR: CCJ 3024 and CJC 3012 or C.I. An overview and analysis of correction interventions and treatment programs in the community. Occasional.</td>
</tr>
<tr>
<td>CJC 4410</td>
<td>Correctional Interventions in Criminal Justice: 3(3,0)</td>
<td>PR: CCJC 3104. Intervention techniques used with juvenile and adult offenders in institutional and community-based settings and study of the theoretical foundations. Occasional.</td>
</tr>
<tr>
<td>CJC 5020</td>
<td>Foundations of Corrections: 3(3,0)</td>
<td>PR: C.I. Provides an overview of correctional process in U.S., including philosophical foundations and contemporary practices. Occasional.</td>
</tr>
<tr>
<td>CJE 3001</td>
<td>Careers in Criminal Justice: 3(3,0)</td>
<td>PR: CCJ 3024. Introductory course with focus on components of the Criminal Justice process (law enforcement, courts, and corrections) and employment opportunities within the Criminal Justice system. Fall, Spring.</td>
</tr>
<tr>
<td>CJE 3444</td>
<td>Police and Society: 3(3,0)</td>
<td>PR: CCJ 3024. An examination of the varied roles of police in contemporary society. Emphasis is on dynamics of police/citizen interactions and the police subculture. Fall, Spring.</td>
</tr>
<tr>
<td>CJE 4104</td>
<td>CJ Information Technology and Data Management: 3(3,0)</td>
<td>PR: CCJ 3024. Designed to familiarize with concepts of databases, bases, and applicability to crime analysis. Occasional.</td>
</tr>
<tr>
<td>CJE 4174</td>
<td>Comparative Justice Systems: 4(4,0)</td>
<td>PR: CCJ 3024 and CJE 4174 or C.I. A survey of contemporary foreign criminal justice and differences emerging from various political, cultural and legal systems. Occasional.</td>
</tr>
<tr>
<td>CJE 4410</td>
<td>Community Policing: 3(3,0)</td>
<td>PR: CCJ 3014. CJE 401A. The viability of community policing. The theoretical basis for community interventions are related to the daily operations required by community policing. Occasional.</td>
</tr>
<tr>
<td>CJE 4630</td>
<td>Serial Murder and Criminal Justice: 3(3,0)</td>
<td>Study of extent, types, and explanations of serial murder, and responses of the general public, law enforcement, and prosecution. Occasional.</td>
</tr>
<tr>
<td>CJE 4654</td>
<td>Crime and Place: 3(3,0)</td>
<td>PR: CCJ 3024. Provides an understanding of how physical environmental features - the natural and built environment - influences crime events. Occasional.</td>
</tr>
<tr>
<td>CJE 4663</td>
<td>Crime Analysis I: 3(3,0)</td>
<td>PR: CJE 4654. Provides the essential data analysis skills necessary to effectively analyze crime, understand crime data structures and the problems inherent in crime data. Occasional.</td>
</tr>
</tbody>
</table>
CJE 5688  HPA-CJ/LS  3(3,0)  

CJ 4564  HPA-CJ/LS  3(3,0)  
Delinquency Control:  PR:  CCJ 3024 and C.J. 3510 or C.J. Examination of programs and institutions including juvenile court process, intake services, and remedial procedures and practices. Fall, Spring.

CJL 3110  HPA-CJ/LS  3(3,0)  
Criminal Law in Action:  Basic concepts of criminal law: elements of major crimes, criminal responsibility, defenses, and parties to crime. Fall, Spring.

CJL 3510  HPA-CJ/LS  3(3,0)  
Prosecution and Adjudication:  PR:  CCJ 3024 or PLA 3013 or C.J. Examination of structures and goals of offices and prosecution and criminal trial courts, and of the processes of charging, adjudicating, and sentencing defendants. Fall, Spring.

CJL 4010  HPA-CJ/LS  3(3,0)  
Legal Aspects of Policing:  PR:  CJE 4014. The legal dimensions of various police decision-making stages; including stops and frisks; arrests; searches and seizures wiretappings; and, interrogations. Occasional.

CJL 4410  HPA-CJ/LS  3(3,0)  
Legal Aspects of the Criminal Court Process:  PR:  C.JL 3510. The legal dimension of various criminal court decision making stages, including bail; charging; preliminary hearing; grand jury; pretrial hearings plea hearings; trial; and, sentencing. Occasional.

CJL 4514  HPA-CJ/LS  3(3,0)  

CJT 3803  HPA-CJ/LS  3(3,0)  

CJT 3804  HPA-CJ/LS  3(3,0)  
Security Administration:  Discussion of modern security administration and the security-law enforcement interface, emphasizing a systems approach and utilizing the design of a security plan for a plant. Occasional.

CJT 3819  HPA-CJ/LS  3(3,0)  

CJT 3821  HPA-CJ/LS  3(3,0)  
Practical Security Applications:  An examination of basic security principles applied to practical specific security situa-tions encountered in the Central Florida area. Occasional.

CJT 3842  HPA-CJ/LS  3(3,0)  
Special Security Problems:  Review and application of basic security principles to retail security, transportation/loge security, utility security, computer security, and other special security situations. Occasional.

CJT 4100  HPA-CJ/LS  3(3,0)  
Criminal Investigation:  PR:  CJE 4014. Course acquaints students with basic Procedures used in Criminal investiga-tions, purpose of investigations, and ingredients for suc-cessful investigations. Fall, Spring.

CJT 4843  HPA-CJ/LS  3(3,0)  
Risk Management in Criminal Justice/Private Security:  PR:  CJT 3804. This course examines the concept of risk management in a criminal justice context. Occasional.

CLA 3850  CAH-PHIL  3(3,0)  
Classical Mythology:  PR:  ENC 1102 and either HUM 2210, REL 2300, WOH 2012, or LIT 2110. Myths of the Greeks & Romans studied through excerpts from ancient sources and experienced through works of art, literature, and music. Occasional.

CLA 3851  CAH-PHIL  3(3,0)  
Comparative Mythology:  PR:  ENC 1102 and either HUM 2220, REL 2300, WOH 2022, LIT 2120, or CLA 3850. Common themes found in the myths of various cultures: the-ories of their origins, meaning and value in human experi-ence. Occasional.

CLP 3004  COS-PSYCH  3(3,0)  

CLP 3143  COS-PSYCH  3(3,0)  
Abnormal Psychology:  PR:  PSY 3012 and PPE 3003. Classification, causation, and treatment of deviant patterns of behavior. Fall, Spring.

CLP 3143H  COS-PSYCH  3(3,0)  

CLP 3184  COS-PSYCH  3(3,0)  
Women's Mental Health:  PR:  PSY 3012. Social and cultural factors of mental health issues and conditions that are unique to or primarily impact women in the U.S. today. Occasional.

CLP 3302  COS-PSYCH  3(3,0)  
Clinical Psychology:  PR:  PPE 3003 and CLP 3143. An overview of approaches to psychopathology, methods of clinical assessment, and various approaches to individual and group counseling. Fall, Spring.

CLP 3413  COS-PSYCH  3(3,0)  
Contemporary Behavior Therapy:  PR:  CLP 3143. Emphasis on the underlying principles and the specific inter-vention procedures which are utilized in contemporary behavior therapy, including treatment strategies for particu-lar behavior disorders. Occasional.

CLP 3467C  COS-PSYCH  3(2,2)  
Interpersonal Effectiveness and Group Psychotherapy:  PR:  PSY 3012. Psychological aspects of interpersonal rela-tionships, the rationale for group therapy, and strategies for enhancing interpersonal skills and personal growth. Occasional.

CLP 4134  COS-PSYCH  3(3,0)  

CLP 4314  COS-PSYCH  3(3,0)  
Health Psychology:  PR:  CLP 3143, PSB 3002, PPE 3003. Interactions between psychosocial and physical conditions, in prevention, diagnosis, intervention and health care deliv-ery policy planning. Course will cover empirical phases for prevention, assessment and intervention approaches for these focal areas: cancer, chronic heart disease, diabetes, HIV disease, pain and stress. Occasional.

CLP 4390  COS-PSYCH  3(3,0)  
Forensic Psychology:  PR:  PSY 2012 and SOP 3751. Clinical practice of psychology within the legal system, including forensic evaluation of competency/insanity, treat-ment, and criminal profiling. Spring.

CLP 4402C  COS-PSYCH  3(2,2)  

CLP 5166  COS-PSYCH  3(3,0)  
Advanced Abnormal Psychology:  PR:  Graduate status or senior standing or C.I. Consideration of classification, causation, management and treatment of emotional disor-ders. Review of theories and research in the field. Lecture/Laboratory. Occasional.

CLP 5187  COS-PSYCH  3(3,0)  
Mental Health and Aging:  PR:  Graduate status or senior standing or C.I. Introduction to assessment and intervention issues, practice and research related to problems with cognitive and emotional functioning among older adults. May be repeated for credit. Occasional.

CMC 4240  COS-R/TV  3(1,2)  
Corporate/Institutional Video:  PR:  RTV 3200, RTV 3260C (RTV 3260C may be taken concurrently). Preparation of non-broadcast corporate/institutional video programs including planning, budgeting, production, and evaluation. Occasional.

COM 1000  COS-COMM  3(3,0)  
Communication:  Basic factors affecting human interaction through communication, theories and models of communi-cation. Fall, Spring.

COM 2347C  COS-COMM  1(1,1)  
Sports Speaking and Interviewing:  PR:  SPC 1600. Practicum to prepare students to speak in public forums and to participate in interviews with the mass media. Graded or CR: COM 3311. Occasional.

COM 3011C  COS-COMM  3(1,2)  

COM 3013  COS-COMM  3(3,0)  
Communication and the Family:  PR:  SPC 1600. The ways members of a family unit interact verbally and nonver-bally to influence one another. Even Fall.

COM 3110  COS-COMM  3(3,0)  
Business and Professional Communication:  PR: Majors only, SPC 1600 or C.I. Theoretical and practical training in effective presentational speaking for business and profes-sions. Fall, Spring.

COM 3110H  COS-COMM  3(3,0)  
Honors Business and Professional Communication:  PR: Majors only, SPC 1600 or C.I. and consent of Honors. Theoretical and practical training in effective presentational speaking for business and professions. With Honors con-tent. Occasional.
UCF Courses and Descriptions

COM 3120 COS-COMM 3(3,0)
Organizational Communication: PR: COM 3311. A study of communication functions and problems within the contexts of hierarchies. Fall, Spring.

COM 3311 COS-COMM 3(3,0)
Communication Research Methods: PR: STA 2014C. Research methods used in communication. Understanding and interpretation of original research emphasized. Fall, Spring.

COM 3330 COS-COMM 3(3,0)
Computer Mediated Communication: PR: CGS 1060C. Communicating through computers. The foundations and applications of online and interactive multimedia applications, including trends and limitations. Even Spring.

COM 3332 COS-COMM 3(3,0)
Communication, Technology, and Change: PR: SPC 1600. How new technologies influence (and are influenced by) communication in a variety of contexts, including organization and interpersonal settings. Spring.

COM 3406 COS-COMM 3(3,0)

COM 4014 COS-COMM 3(3,0)
Gender Issues in Communication: PR: SPC 1600 and Junior Standing. A study of how communication exchanges, both verbal and non-verbal, differ between men and women, and how these differences are manifested. Occasional.

COM 4461 COS-COMM 3(3,0)
Intercultural Communication: Study of variables affecting messages and participants in intercultural contexts. Fall, Even Spring.

COM 4462 COS-COMM 3(3,0)
Conflict Management: PR: COM 3311. The study of communication in everyday conflicts. Fall, Spring.

COP 2200 ECS-CS 3(3,0)
Computer Programming: PR: College algebra and trigonometry or equivalent. Problem definitions, algorithms, flow charts, digital computer programming using a higher level language (FORTRAN). Not open to Computer Science Majors. Occasional.

COP 2500C ECS-CS 4(3,1)
Concepts in Computer Science: Fundamental concepts in program design, data structures, algorithms, analysis and a survey of topics in CS. Not open to Computer Science majors. Fall, Spring.

COP 3223 ECS-CS 3(3,0)
Introduction to Programming with C: Equivalent to EGN 3211. Programming in C including arrays, pointer manipulation and use of standard C math and I/O libraries. Fall, Spring.

COP 3330 ECS-CS 3(3,0)
Object Oriented Programming: PR: COP 3223. Object oriented programming concepts (classes, objects, methods, encapsulation, inheritance, interfaces) and the expression of these concepts in the programming languages such as JAVA. Fall, Spring.

COP 3346 ECS-CS 3(3,0)

COP 3402 ECS-CS 3(3,0)
Systems Software: PR: COP 3502C. Design and development of assemblers, linkers, loaders, and compilers. Study memory hierarchy, program performance, and system level I/O. Fall, Spring.

COP 3502C ECS-CS 3(3,0)
Computer Science I: PR: COP 3223 and MAC 1105. Problem solving techniques, order analysis and notation, algorithmic complexity analysis, sorting and searching, practical applications. Fall, Spring.

COP 3502H ECS-CS 3(3,0)

COP 3503C ECS-CS 4(3,1)
Computer Science II: PR: COP 3502C and COP 3100C. Algorithm design and analysis for tree, list, set, and graph data models; algorithmic strategies and applications; and algorithmic complexity analysis. Fall, Spring.

COP 3503H ECS-CS 3(3,0)
Honors Computer Science II: PR: Permission of Honors and COP 3502C and COF 3503C. Continuation of Honors Computer Science I. Object oriented design, data structures, traversal algorithms and program correctness. Occasional.

COP 3530C ECS-CS 3(3,0)
Computer Science III: PR: COP 3502C and MAC 1300. Algorithm design and analysis for tree, list, set, relational and graph data models; effects of representation on algorithmic complexity. Introduction to parallel implementations. Fall, Spring.

COP 4020 ECS-CS 3(3,0)
Programming Languages I: PR: COP 3503C and COP 3960. Paradigms and fundamental concepts of programming languages are presented, including: scope, binding, abstraction, encapsulation, typing etc. Design paradigms object-oriented, functional and logic programming are presented. Fall, Spring.

COP 4020H ECS-CS 3(3,0)
Honors Programming Languages I: PR: Consent of Honors and COP 3503C. Deeper understanding of the paradigms and fundamental concepts of programming languages, such as scope, binding, abstraction, encapsulation, typing, etc. Object-oriented, functional and logic programming paradigms will be introduced through programming languages. With Honors content. Occasional.

COP 4331C ECS-CS 4(3,1)
Processes for Object-Oriented Software Development: PR: COP 3960 (Foundation Exam) and COP 3502C. Concepts, principles, processes and methods for developing large software systems featuring a team project in discrete-event simulation using object-oriented design in UML and implementation in C++, Occasional.

COP 4516C ECS-CS 3(1,3)
Problem Solving Techniques and Team Dynamics: PR: COP 3503C. Design and implement solutions to problems requiring the applications of the different algorithms. Team project format. Even Spring.

COP 4520 ECS-CS 3(3,0)
Concepts of Parallel and Distributed Processing: PR: COP 3402 and COP 3503C and COP 3960. Parallel and distributed paradigms, architectures and algorithms, and the analytical tools, environments and languages needed to support these paradigms. Occasional.

COP 4521 ECS-CS 3(3,0)

COP 4600 ECS-CS 3(3,0)
Operating Systems: PR: COP 3402 and COP 3503C and COP 3500C. The goal of the course is to teach the function and organization of operating systems, process management, virtual memory, I/O management, and file management. Fall, Spring.

COP 4600H ECS-CS 3(3,0)
Honors Operating Systems: PR: Permission of Honors and COP 3402 and COP 3503C. Same as COP 4600 but with Honors level content. Occasional.

COP 4610L ECS-CS 3(3,0)
Operating Systems Laboratory: PR: COP 3503C. CR: EEL 4962. Exercises in the configuration, development, management and analysis of operating systems; OS Kernel support for semaphores and multi-tasking; security in a distributed heterogeneous environment. Fall, Spring.

COP 4710 ECS-CS 3(3,0)
Database Systems: PR: COP 3503C. Storage and access Structures, database models and languages, related database design, and implementation techniques for database management systems. Fall, Spring.

COP 4910 ECS-CS 3(3,0)
Frontiers in Information Technology: PR: COP 4610L, COT 4741L. Research into leading edge information technologies that have a high likelihood of affecting the work place in the two to five year time frame. Fall, Spring.

COP 5021 ECS-CS 3(3,0)

COP 5537 ECS-CS 3(3,0)
Network Optimization: Recent advances in the theory and computational techniques for optimal design and analysis of large networks for computers, communications, transportaion, web and other applications. Fall.

COP 5611 ECS-CS 3(3,0)

COP 5711 ECS-CS 3(3,0)
Parallel and Distributed Database Systems: PR: COP 4710. Storage manager, implementation techniques for parallel DBMSs, distributed DBMS architectures, distributed database design, query processing, multistable systems. Occasional.

COT 3100C ECS-CS 3(3,1)

COT 3960 ECS-CS 0(1,0) CS Foundation Exam: PR: COP 3502C AND COT 3100C. Foundation examination for computer science majors. Required before taking COT 3503C, and COT 3402C and other 4000 level courses. Graded SU. Occasional.


COT 4210 ECS-CS 3(3,0) Discrete Structures II: PR: COP 3503C and COT 3960. Computation Theory. A study of the properties of grammars and automata as formal specifications for algorithms and families of languages. Fall, Spring.


COT 4810 ECS-CS 3(3,0) Topics in Computer Science: PR: COP 3402 and COP 3503C and COT 3960. A range of topics from the field of Computer science; application of oral and written communication skills; social, ethical and moral issues of computing. Fall, Spring.

COT 5310 ECS-CS 3(3,0) Formal Languages and Automata Theory: PR: COP 4020 and COP 4210. Classes of formal grammars and their relation to automata, normal forms, closure properties, decision problems. LR(k) grammars. Fall, Spring.

COT 5405 ECS-CS 3(3,0) Design and Analysis of Algorithms: PR: COT 4210 and COT 4110. Classification of algorithms, e.g., recursive, divide-and-conquer, greedy, etc. Data Structures and algorithm design and performance. Time and space complexity analysis. Fall, Spring.

COT 5507 ECS-CS 3(3,0) Computational Methods/Applications: PR: COT 4500. Computational solution techniques for algebraic equations, ODE and PDE Models of applications selected from science, engineering, applied mathematics, and computer science. Occasional.

COT 5510 ECS-CS 3(3,0) Computational Methods/Linear Systems: PR: COT 4500 and MAS 2106. Mathematical models for linear systems, linear programming, the simplex method, integer and mixed-integer programming, introduction to nonlinear optimization and linearization. Occasional.


CPO 3034 COS-POLS 3(3,0) Politics of Developing Areas: Comparative analysis of theories, problems and politics of development in Third World nations. Even Fall.

CPO 3103 COS-POLS 3(3,0) Comparative Politics: PR: POS 2041 or C.I. Government and politics in selected nations, with emphasis upon comparative analysis of contemporary problems, politics, political culture, behavior, and institutions. Spring.

CPO 3104 COS-POLS 3(3,0) Politics of Western Europe: PR: POS 2041 or C.I. An examination of the political and economic dynamics of Western Europe in the post-1945 era. Odd Spring.

CPO 3132 COS-POLS 3(3,0) Canadian Studies: A multi-disciplinary approach to the study of Canada, its people, culture, government, and economy. Occasional.

CPO 3403 COS-POLS 3(3,0) Politics of the Middle East: PR: POS 2041 or C.I. An examination of the dynamics of Middle East politics, including both regional and international dimensions. Even Fall, Spring.

CPO 3403H COS-POLS 3(3,0) Honors Politics of the Middle East: PR: Permission of Honors. An examination of the dynamics of Middle East politics, including both regional and international dimensions. Honors level content. Occasional.

CPO 3614 COS-POLS 3(3,0) Politics of Eastern Europe: PR: POS 2041 or C.I. An examination of the political and economic dynamics of Eastern Europe in the post-1945 era. Occasional.

CPO 4047 COS-POLS 3(3,0) Politics of the NAFTA Region: PR: POS 2041 or C.I. Contemporary politics of the NAFTA region, analyzing important political and socio-economic issues. Occasional.


CPO 4074 COS-POLS 3(3,0) Political Economy: PR: Junior standing or C.I. Interrelationship of political and economic phenomena of both advanced industrial societies and less developed countries. Even Fall.

CPO 4101 COS-POLS 3(3,0) Politics of the European Union: PR: POS 2041 or C.I. Evolution of the European Union, theories of the EU and EU institutions and policies from a comparative perspective. Spring.

CPO 4123 COS-POLS 3(3,0) Government and Politics of Great Britain: A survey of British government, society, politics and institutions, emphasizing parliamentary traditions. Britain’s foreign policy and European role will be discussed. Even Spring.

CPO 4303 COS-POLS 3(3,0) Comparative Latin American Politics: Comparative analysis of politics, society and culture in Latin America and selected countries of the region. Even Fall.

CPO 4445 COS-POLS 3(3,0) Comparative Political Parties: PR: POS 2041, and Junior standing or C.I. Theories of the formation, structures, organization, and behavior of political parties and political party systems in comparative perspective. Even Fall.
CRW 3120 CAH-ENG 3(3,0)
Fiction Writing Workshop: PR: Junior standing, and C (2.0) or better required in ENC 1102 and (CRW 2100 or CRW 3013). An intermediate level fiction writing workshop for English majors; group analysis and criticism; close reading of contemporary fiction and fiction theory. Fall, Spring.

CRW 3211 CAH-ENG 3(3,0)
Creative Nonfiction Writing: PR: English or English Ed major or C.I., and C (2.0) or better required in CRW 3013. Writers present original nonfiction writing for class response and individual conferences. Close reading of key works of creative nonfiction with discussion of definitions of the genre. Fall, Spring.

CRW 3310 CAH-ENG 3(3,0)
Poetry Writing Workshop: PR: Grade of C (2.0) or better required in ENC 1102 and CRW 2300 or CRW 3013. An intermediate level poetry workshop for English majors. Group analysis and criticism; close reading of contemporary poetry and poetic theory. Fall, Spring.

CRW 3311 CAH-ENG 3(3,0)
Structure of Verse: PR: Grade of C (2.0) or better required in ENC 1102. Intensive study of the structural characteristics of English, poetry, metrical systems, rhyme, scansion, and poetic rhetorical devices. Occasional.

CRW 3540 CAH-ENG 3(3,0)
Literary Magazines: PR: Grade of C (2.0) or better required in ENC 1102. Examination of fiction and poetry trends in current literary magazines, identifying editorial policies in publication of contemporary literature. Occasional.

CRW 3610 CAH-ENG 3(3,0)
Writing Scripts: PR: Grade of C (2.0) or better required in CRW 3013 or C.I. Theory and practice of writing scripts for film and TV. Fall, Spring.

CRW 4014 CAH-ENG 3(3,0)

CRW 4114 CAH-ENG 3(3,0)
History of Prose Style: PR: Grade of C (2.0) or better required in ENC 1102. A review of English prose style from 1611 to 1960. Occasional.

CRW 4122 CAH-ENG 3(3,0)
Advanced Fiction Writing Workshop: PR: Grade of C (2.0) or better required in CRW 3120. Intensive writing practice in fiction. Peer critique and group discussion of original manuscripts. May be repeated once for credit. Fall, Spring.

CRW 4213 CAH-ENG 3(3,0)

CRW 4224 CAH-ENG 3(3,0)
Advanced Nonfiction Workshop: PR: Grade of C (2.0) or better required in CRW 3013 and CRW 3211 (or equivalent and permission based on submission of manuscript). Advanced creative nonfiction, through intensive reading, writing, and workshop. The genre draws upon memory, observation, and techniques of fiction, poetry, and journalism. May be repeated for credit. Fall, Spring.

CRW 4320 CAH-ENG 3(3,0)
Advanced Poetry Writing Workshop: PR: Grade of C (2.0) or better required in CRW 3013 and CRW 3310, or CRW 2300. Intensive writing practice in poetry. Peer critique and group discussion of original manuscripts. May be repeated once for credit. Fall, Spring.

CRW 4616 CAH-ENG 3(3,0)

CRW 4804 CAH-ENG 3(3,0)
Creative Writing in the Community: PR: Junior standing and CRW 3310 or CRW 3120 or CRW 3211. Teaching creative writing to community groups through service-learning. Occasional.

CRW 5020 CAH-ENG 3(3,0)
Graduate Writing Workshop: PR: Graduate status or senior standing or C.I. Student writers present their own work, receiving detailed analysis of its strengths and weaknesses from their fellow writers and from the teacher. Fall, Odd/Even.

CRW 5130 CAH-ENG 3(3,0)
Form and Theory in Creative Writing: PR: Graduate standing and instructor consent. Formal and theoretical study of creative writing of given genre (poetry, short fiction, etc). May be repeated when genre differs. Occasional.

CRW 5932 CAH-ENG 3(2,1)
Teaching Creative Writing: PR: Graduate status or senior standing or C.I. Creative writing practicum. May be repeated for credit. Fall.

CRW 5948C CAH-ENG 3(2,1)
Creative Writing Service Learning: PR: Graduate Standing or C.I. On-site experience leading and sharing creative writing in community settings. May be repeated for credit 2 times. Occasional.

CWR 3021 ECS-CEE 3(3,0)

CWR 4101C ECS-CEE 3(3,0)
Hydrology: PR: STA 3032; CWR 3201. Hydrological cycle, probabilistic forecasting, rainfall excess meteorology, groundwater, storm-water runoff, flood routing and design applications. Fall, Spring. M&S fee: $15.00

CWR 4203C ECS-CEE 3(2,2)
Hydraulics: PR: CWR 3201 Continuation of CWR 3201 with emphasis on piping networks, pumps, and hydraulic systems. Laboratories with civil and environmental engineering applications. Fall, Spring. M&S fee: $20.00

CWR 4812C ECS-CEE 3(2,2)
Water Resources Design: PR: CWR 4101C; CWR 4203C. Project course for the design of storm water and sewer transmission systems using local and state regulations. Fall, Spring. M&S fee: $15.00

CWR 5125 ECS-CEE 3(3,0)
Groundwater Hydrology: PR: CWR 4203C or equivalent. Theories of groundwater movement, geological factors, analysis and design techniques, etc. Emphasis on practical considerations. Occasional.

CWR 5205 ECS-CEE 3(3,0)

CWR 5515 ECS-CEE 3(3,0)
Numerical Methods in Civil & Environmental Engineering: PR: CWR 4101C, CWR 4203C. This course will present intermediate to advanced numerical methods theory and include code development and error assessment, while targeting civil and environmental engineering applications. Occasional.

CWR 5545 ECS-CEE 3(3,0)

DAA 2100C CAH-THEA 2(2,1)
Modern Dance I: PR: Theatre major, Dance minor, or department consent. Exploration of form, style, and technique in creative movement. Includes practical class work and history lectures. Spring.

DAA 2101C CAH-THEA 2(2,1)
Modern Dance II: PR: Theatre major, Dance minor, or department consent., and C (2.0) or better required in DAA 2000C and DAA 2200C. Intermediate exploration of form, style, and technique in creative movement, including practical class work and history lectures. Fall.

DAA 2200C CAH-THEA 2(2,1)
Ballet I: PR: Theatre major, Dance minor, or department consent. Fundamentals of classical ballet, includes practical dance work as well as dance history lectures. Fall.

DAA 2201C CAH-THEA 2(2,1)
Ballet II: PR: Theatre major, Dance minor, or department consent. Form, style, and technique in creative movement. Fall.

DAA 2393C CAH-THEA 2(2,1)
World Dance: PR: Theatre major, Dance minor, or department consent. Theory and applied technique of world dance. Semester focus will be devoted to one form, such as African dance, Flamenco, Irish dance, Indian dance, or other. May be repeated for credit. Occasional.

DAA 2520C CAH-THEA 2(2,1)
Tap Dance I: PR: Theatre major, Dance minor, or department consent. Form, style, and technique in the basic fundamental movements of tap dance. Fall.

DAA 2521C CAH-THEA 2(2,1)
Tap Dance II: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2520C. Intermediate exploration of form, style, and technique of tap dance. Spring.

DAA 2540 CAH-THEA 3(2,2)
Dance Technique I: PR: or CR:THE 2020 or THE 2020 or department consent. Theory and applied technique of tap dance. Fall.

DAA 2570C CAH-THEA 2(2,1)
Jazz Dance: PR: DAA 2200C, and Theatre major, or Dance minor, or department consent. Basic movements of American Jazz dance, including practical class work and Jazz dance history. Fall, Spring.
DAA 2571C CAH-THEA 2(2,1)  
Jazz Dance II: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2570C. Intermediate Jazz dance using theory and practice in jazz technique. Spring.

DAA 2610 CAH-THEA 3(3,0)  
Dance Improvisation/Composition I: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2100C. Fundamental study and exploration of dance composition. Spring.

DAA 2640 CAH-THEA 3(2,2)  
Theatre Dance Choreography and Performance: PR: By audition. Students will create and present a piece choreographed and performed by other dancers in concert. May be repeated for credit. Occasional.

DAA 3202C CAH-THEA 2(2,1)  
Modern Dance III: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2571C. Advanced exploration of form, style, and technique in creative movement. May be repeated for credit. Spring.

DAA 3502C CAH-THEA 2(2,1)  
Jazz Dance III: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2571C. Advanced study of jazz dance, using theory and practice of jazz technique. May be repeated for credit. Fall.

DAA 3524C CAH-THEA 2(2,1)  
Tap Dance III: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2521C. Advanced exploration of form, style, and technique of tap dance. May be repeated for credit. Fall.

DAA 3645 CAH-THEA 2(0, VAR)  
Choreography Practicum: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2100C. Student practice in choreographing a concert dance work for public performance. May be repeated for credit 4 times. Spring.

DAA 3680 CAH-THEA 1(0,10)  
Dance Performance: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2200C. Student performance in a concert dance work. Students must be registered in a dance technique class. May be repeated for credit. Spring.

DAE 3370 ED-TLP 3(1,2)  

DAN 3134 CAH-THEA 3(3,0)  
Dance History I: PR: DAA 2200C or DAA 2520C or DAA 2570C or DAA 2393C, and Theatre major, Dance minor, or department consent. The roots, trends, and styles of dance from prehistory through the seventeenth century. Fall.

DEP 2004 COS-PSYCH 3(3,0)  

DEP 2004H COS-PSYCH 3(3,0)  
Honors Developmental Psychology: PR: PSY 2012 and consent of Honors. Genetic, psychological, maturational, and social factors on behavior throughout the life cycle. With Honors consent. Fall.

DEP 3202 COS-PSYCH 3(3,0)  

DEP 3464 COS-PSYCH 3(3,0)  
Psychology of Aging: PR: PSY 2012. An examination of basic psychological processes related to the aging process, with emphasis on the applied implications of changes in perceptual-motor, social emotional and cognitive-intellectual functioning. Occasional.

DEP 5057 COS-PSYCH 3(3,0)  
Developmental Psychology: PR: Graduate status or senior standing or C.I. Psychological aspects of development including intellectual, social, and personality factors. Spring.

DIG 2000 CAH-DIG 3(3,0)  
Introduction to Digital Media: CR: ENC 1101. The principles, development and prospects for Digital Media, with a focus on the Internet. Students learn to build Web pages as their principal expressive medium in the course. Extensive reading, Internet and library research, several short papers, and a team project are required. This course serves as the gateway for the Digital Media program. Occasional.

DIG 3001 CAH-DIG 3(3,0)  

DIG 3035L CAH-DIG 1(0,3)  
Digital Media Service I: PR: DIG 3525 and a minimum grade of "B" (3.0) or better in DIG 3001. Participation in a consulting service for selected clients both within and external to the university, where students design Web pages, provide project management, and maintain assistance with software tools. Graded S/U. Fall, Spring.

DIG 3132CAH-DIG 3(2,1)  
Digital Imaging: PR: DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001. Technical principles of digital photography and scanned image capture for use in video games, Internet and interactive software. Project oriented. Even Fall, Odd Spring.

DIG 3153 CAH-DIG 3(3,0)  

DIG 3253 CAH-DIG 3(3,0)  
Digital Media Audio: PR: DIG 3001. Methodology and implementation of sound for multimedia systems, including audio recording and MIDI Composition techniques. Fall, Spring.

DIG 3286C CAH-DIG 3(3,0)  
Assembling Digital Media: PR: DIG 2000 and a minimum grade of "B" (3.0) or better in DIG 3001. Assembly and editing of images and sounds for use in interactive media. Project oriented. Fall, Spring.

DIG 3355 CAH-DIG 3(3,0)  
Artificial Environments and Effects: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Design, manipulation to convey a story, thought, and concept in visual medium. New imagery in motion such as non-character entities, music videos, and scientific visualization. Odd Fall.

DIG 3362 CAH-DIG 3(3,0)  
Artificial Characters: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Processes, techniques for design and manipulation of artificial characters to convey story, thought, or concept in a visual medium. Odd Fall.

DIG 3430 CAH-DIG 3(3,0)  
Visual Storytelling and Visual Development: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Processes and techniques to transform story concepts into a producible visual experience. Odd Fall.

DIG 3450C CAH-DIG 3(3,0)  
Interactive Performance I: PR: Admission by audition only. Digital Media, Theatre majors, or CI. Techniques of interactive acting, with emphasis on interpersonal awareness and audience facilitation. Fall, Spring.

DIG 3480C CAH-DIG 4(2,2)  
Computer as a Medium: PR: DIG 2000. Not for credit for those who have had ART 2300C. Drawing of objects using the computer. Students will use a stylus with Painter, Photoshop and Illustrator software to draw from still life arrangements. Occasional.

DIG 3485 CAH-DIG 3(3,0)  
Visual Language of the Moving Image: PR: DIG 3001 or FIL 1007, and a minimum grade of "B" (3.0) or better in DIG 3001 and C.I. Digital Media, Film or Animation major. Conceptual structure and design of visual storytelling. Principles, mechanics, character development, personality of place, exaggeration and effects. Fall, Spring.

DIG 3524 CAH-DIG 3(3,0)  
The Production Process: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Production in a visual medium from narrative idea to finished artifact. Odd Fall.

DIG 3525 CAH-DIG 3(3,0)  
Digital Media Production I: PR: DIG 2000 , GRA 2101C and a minimum grade of "B" (3.0) or better in DIG 3001. Media project planning, organization and execution; group dynamics. Software tools for project planning, scheduling and management. Fall, Spring.

DIG 3563 CAH-DIG 3(3,0)  
Information Management and Authorship: PR: DIG 3001. Information management relating to creation, storage, retrieval of assets and authoring of databases and file types. Fall, Spring.

DIG 3811 CAH-DIG 3(3,0)  
User-Centered Design: PR: B+ or better in DIG 3001. The creation of media software and other human-system products by applying knowledge about cognition and behavior. Fall, Spring.

DIG 3821 CAH-DIG 3(3,0)  
Creative Digital Problem Solving: PR: Minimum grade of "B" (3.0) or better in DIG 3001. Techniques for brainstorming to identify key problems and to discover creative solutions in the design of digital media and systems. Improvisational scenario development and analysis, case-based problem description techniques. Fall, Spring.
DIG 3855 CAH-DIG 3(3,0)  Converging Media:  PR: FIL 3625; Film or Digital Media major, and a minimum grade of “B” (3.0) or better in DIG 3001. Various techniques and strategies for creative storytelling on the Internet. Even Spring.

DIG 4204 CAH-DIG 3(3,0)  Generating and Manipulating Digital Imagery:  PR: Grade of “A” in DIG 3485 and a minimum grade of “B” (3.0) or better in DIG 3001. Core techniques for creating and manipulating second and third digital representations. Fall.

DIG 4206C CAH-DIG 4(3,3)  New Imagery in Motion Workshop:  PR: DIG 3355 and successful portfolio review, or C.I. Techniques and mechanics of new approaches to visual communication, new narrative structures, new and emerging media. Even Fall, Odd Spring.

DIG 4323 CAH-DIG 3(3,0)  Modeling for Visual Language:  PR: DIG 4780 and a minimum grade of “B” (3.0) or better in DIG 3001. Constructing organic 3D models for non-realt ime applications, operating high performance CAD systems, and using higher-order modeling techniques. Introduction to rigging and animation controls, materials, lighting and rendering. Project oriented. Fall, Even Spring.

DIG 4324 CAH-DIG 3(3,0)  Modeling for Realtime Systems I:  PR: DIG 4780 and a minimum grade of “B” (3.0) or better in DIG 3001. Advanced techniques for character animation, texture, lighting, rendering. Project oriented. Fall, Even Spring.

DIG 4325C CAH-DIG 4(3,3)  Look Modeling Workshop:  PR: COT 3960 and (DIG 3352 or DIG 3355) and successful portfolio review, or C.I. Techniques and mechanics of designing, developing finished look emphasis on rendering, shading, texturing, and lighting. Even Fall, Odd Spring.

DIG 4326C CAH-DIG 4(3,3)  Geometrical Modeling Workshop:  PR: COT 3960 and (DIG 3362 or DIG 3355) and successful portfolio review, or C.I. Techniques and mechanics of designing and manipulating geometrical representations artificial characters and their environments, introduction to procedural models. Odd Spring.

DIG 4359C CAH-DIG 4(3,3)  Artificial Environments and Effects Workshop:  PR: DIG 3355 and successful portfolio review, or C.I. Techniques and mechanics of artificial environments, with emphasis on composing, image processing, visual style, visual continuity. Odd Spring.

DIG 4369C CAH-DIG 4(3,3)  Artificial Characters Workshop:  PR: DIG 3362 and successful portfolio review, or C.I. Techniques and mechanics of artificial characters, with emphasis on attitude in action, personality of character expressions, and bringing characters to life. Odd Spring.

DIG 4451C CAH-DIG 4(3,3)  Visual Storytelling and Visual Development Workshop:  PR: DIG 3430 and successful portfolio review, or C.I. Techniques, mechanics of visual development with emphasis on strong visual designs which communicate effectively. Odd Spring.

DIG 4455C CAH-DIG 3(3,0)  Interactive Performance II:  PR: DIG 3450C or C.I. Continuation of Interactive Performance I, with focus on the integration of actors, audience participation, technology, and story structure. Even Fall, Spring.


DIG 4522L CAH-DIG 1(0,3)  Digital Media Service I:  PR: DIG 3035L and a minimum grade of “B” (3.0) or better in DIG 3001. Continued participation in a consulting service for selected clients both within and external to the university, where students design Web pages, and provide tutorial, installation, and maintenance assistance with software tools. Graded S/U. Fall, Spring.

DIG 4523L CAH-DIG 1(0,3)  Digital Media Service III:  PR: DIG 4522L and a minimum grade of “B” (3.0) or better in DIG 3001. Participation as a leader in a consulting service for selected clients both within and external to the university, where students design Web pages, and provide tutorial, installation, and maintenance assistance with software tools. Graded S/U. Even Fall, Spring.

DIG 4524L CAH-DIG 3(3,0)  Digital Media Project I:  PR: DIG 3525 and a minimum grade of “B” (3.0) or better in DIG 3001. Multidisciplinary students work with faculty and industry mentors to design and implement a project involving virtual reality, video game production, computer animation, or interaction with the theme park industry. Odd Fall, Even Spring.

DIG 4526C CAH-DIG 2(2)  Digital Media Production II:  PR: DIG 3525 and a minimum grade of “B” (3.0) or better in DIG 3001. Management and execution of large media projects, using structured methods and tools learned in Digital Media Production I. Fall, Even Spring.

DIG 4640 CAH-DIG 3(3,0)  Autonomous Media:  PR: IDS 3701C and a minimum grade of “B” (3.0) or better in DIG 3001. Analysis of the leading edge of research in artificial intelligence, to media and the Internet. Project-based. Occasional.

DIG 4641 CAH-DIG 3(3,0)  Creative Digital Devices:  PR: IDS 3701C and ART 2201C and a minimum grade of “B” (3.0) or better in DIG 3001. The physical construction and computer control of electro-mechanical devices, and the use of software libraries for controlling tested hardware, for entertainment and creative applications. Occasional.

DIG 4645 ECS-CS 3(3,0)  Digital Media:  PR: COP 3530C or C.I. Information structures, algorithms and interactive tools for creation, compression, storage, indexing and transmission of multimedia (visual images, sound, tactile displays, etc.) Project-oriented. Occasional.

DIG 4713C CAH-DIG 3(2,2)  Game Design:  PR: DIG 2000 and a minimum grade of “B” (3.0) or better in DIG 3001 and C.I. Principles of design for interactive games and learning experiences. Psychology of play, storytelling, and character development. Project oriented. Occasional.

DIG 4715C CAH-DIG 3(2,2)  Game Engines:  PR: DIG 2000 and a minimum grade of “B” (3.0) or better in DIG 3001. Principles of 3D interactive graphics and simulation as used in “game engines,” software systems for building Internet or PC-based shared virtual worlds. Project oriented. Fall, Spring.

DIG 4716L CAH-DIG 3(0,3)  Internet Interaction:  PR: DIG 2000 or COS 3175 and a minimum grade of “B” (3.0) or better in DIG 3001 or C.I. Interdisciplinary approach to design and construction of advanced interactive web sites, applying esthetic and scientific principles of user interface design. Project oriented. Fall, Spring.

DIG 4770 BEC-CS 3(3,0)  Building Virtual Worlds:  PR: COP 3530C or C.I. Design and construction of software for networked interactive learning environments, entertainment and communication systems. Tools for enabling dramatic, artistic and technical creativity. Project oriented. Occasional.

DIG 4780 CAH-DIG 3(3,0)  Modeling for Realtime Graphics:  PR: DIG 4770, GRA 2101C or other computer graphics experience and a minimum grade of “B” (3.0) or better in DIG 3001 and C.I. Principles of construction of 3D models for realtime applications; use of high performance CAD systems; level of detail management, efficiency vs. visual quality for video games and realtime simulation. Odd Fall, Even Spring.

DIG 4921C CAH-DIG 3(2,2)  Media for e-Commerce I:  PR: DIG 2000 and (COP 2500C or COP 3502C) and a minimum grade of “B” (3.0) or better in DIG 3001. Media in support of electronic commerce on the Internet. Emphasis on the artistic and creative components supporting the business aspects of electronic commerce. Project oriented. Odd Fall, Even Spring.

DIG 4922 CAH-DIG 3(3,0)  Media for e-Commerce II:  PR: IDS 4688C and COP 3330 and a minimum grade of “B” (3.0) or better in DIG 3001. Server-side programming in Java to support media-rich E-Commerce applications. Project oriented. Even Spring.


DIG 5136C CAH-DIG 3(1,3)  Design for Media:  PR: Graduate standing and C.I. Theories and practices of interactive design for digital media content. Fall.

DIG 5366 CAH-DIG 3(3,0)  Creating Interactive Characters:  PR: Admission to Digital Media M.S. or C.I. Survey of issues related to creating interactive characters. Topics will range from modeling humans to reviewing realistic human capabilities. Graded S/U. Fall, Spring.

DIG 5550C CAH-DIG 3(1,3)  Digital Media Development:  PR: DIG 5136C or C.I. Students will begin developing projects specified by design documents from Design for Media course. Odd Fall.

DIG 5551C CAH-DIG 3(1,3)  Interactive Media Design:  PR: DIG 4716L and DIG 5286C or equivalent, or C.I. Interdisciplinary approach to design and construction of advanced interactive media, applying theory, aesthetic, and scientific principles of user interaction. Project and theory-based. Even Spring.

DIG 5627 CAH-DIG 3(3,0) Autonomous Characters: PR: Graduate status or senior standing or C.I. Interdisciplinary study of autonomous characters-computer programs that mimic human behavior-in games, simulations and interactive literature. Formal models of strategy, tactics and actions. Occasional.

DIG 5647 CAH-DIG 3(3,0) Science & Technology of Dynamic Media: PR: Graduate status or senior standing or C.I. Key scientific, technical issues in interactive media. Information algorithms, objects, models. Theories of computer graphics, sound, modeling, simulation, interfaces, artificial intelligence. Occasional.

DIG 5810 CAH-DIG 3(3,0) Ways of Seeing: Cultural and Technological Perspectives: PR: Admission to Film and Digital Media masters program or C.I. Cultural and technological perspectives formed by the intersection of media and cultural studies, art history and criticism, and cinema studies. Fall.

DIG 5835 CAH-DIG 3(3,0) Digital Forensics: PR: CGS 5311 (Computer Forensics I) or C.I. Application of digital scientific techniques to solve information assurance, forensic and legal problems. Occasional.

DIG 5950 CAH-DIG 3(3,0) Interactive Entertainment Capstone: PR: Admission to Digital Media M.S. Prepare a product design document and technical design document for a production project. Gradated SU. Fall, Spring.


EAB 3703 COS-PSYCH 4(3,2) Principles of Behavior Modification: PR: EXP 3404. An examination of the control of behavior through applications of principles and theories of learning. Examples are drawn from clinical and social psychology and from child rearing. Lecture/Practicum. Fall.

EAB 3705C COS-PSYCH 4(3,2) Behavior Modification - Part II: PR: EAB 3703, EXP 3604. Continued examination of the principles of behavior analysis and their application, as well as ethical issues related to the delivery of behavior analysis programs. Occasional.

EAB 5765 COS-PSYCH 3(3,0) Applied Behavior Analysis with Children and Youth: PR: DEP 5557 and EXP 5454, and graduate status or senior standing or C.I. Advanced survey of principles, procedures, and techniques of applied behavior analysis, with special attention to applications with children and youth. Occasional.

EAS 3010 ECS-MMAE 3(3,0) Fundamentals of Aerospace Flight: PR: Sophomore standing. Fundamental theories of inviscid, incompressible aerodynamics and flight mechanics; airfoil theory, external and internal flows; airplane performance. Fall.

EAS 3101 ECS-MMAE 3(3,0) Fundamentals of Aerodynamics: PR: EAS 3010. Viscous, incompressible fluid flow; flow over finite wings; aerodynamic design; introduction to computational fluid dynamics. Spring.


EAS 3810C ECS-MMAE 2(1,3) Design of Aerospace Experiments: PR: EAS 3800C and EAS 3010. Extension of EAS 3000C. Design of experiments in aeronautical/aerospace systems with emphasis on project team activity. Spring.

EAS 4105 ECS-MMAE 3(3,0) Flight Mechanics: PR: EAS 3101 and EML 4512C. Analysis and design of aircraft performance, static and dynamic stability and automatic control systems. Fall.

EAS 4134 ECS-MMAE 3(3,0) High-Speed Aerodynamics: PR: EGN 3434, EML 3701, EAS 3000C. Continuation of EAS 3101. Normal and oblique shock waves, nozzle and wind tunnels, methods of analyzing compressible flow about airfoils, wings, and bodies; Viscous boundary layers and applications to the design process. Fall.


EAS 4300 ECS-MMAE 3(3,0) Aerothermodynamics of Propulsion Systems: PR: EAS 4134 or EML 4703. Fundamental analysis and design considerations of propulsion systems. Turbojets, ramjets and rockets. Spring.

EAS 4400 ECS-MMAE 3(3,0) Spacecraft Attitude Dynamics: PR: EML 4312C. Kinematics and dynamics of rigid and multibody spacecraft rotational motion. Attitude control with momentum exchange actuators and thrusters. Occasional.


EAS 4700C ECS-MMAE 3(1,6) Intermediate Aerodynamics: PR: EAS 3101C, CR: EML 4512C. Application of the design process to the team solution of a state-of-the-art problem. Airplanes and space vehicles, systems and devices are considered. Fall, Spring.

EAS 4710C ECS-MMAE 3(1,6) Aerospace Design I: PR: EAS 3110C. Continuation of the design process in the team building and testing of a prototype/model of an airplane, spacecraft, system or device. Fall, Spring. M&S fee: $45.00


EAS 5302 ECS-MMAE 3(3,0) Direct Energy Conversion: PR: EML 3101 and EML 4142. Direct methods of energy conversion; particular emphasis on fuel cells, thermoelectrics, thermionics, solar energy, photovoltaics and magnetohydrodynamics. Analysis and systems design. Occasional.


EAS 5407 ECS-MMAE 3(3,0) Mechatronic Systems: PR: EML 3804C or EAS 3404C. Discrete control techniques for aerospace/mechatronic systems. Controller design, test and evaluation applications. Odd Spring.

EAS 5535 ECS-MMAE 3(3,0) Engineering Design for Aerospace Vehicles: PR: EAS 4700C; EAS 4710C; EML 4501C; EML 4502C; or equivalent. Applications of the design process to aerospace vehicles. A system approach will be emphasized. Techniques for optimizing interface requirements will be covered. Occasional.


ECM 5135 ECS-ECE 3(3,0) Engineering Math Analysis I: PR: MAP 2302. Topics in advanced engineering mathematics, including systems of differential equations, phase plane, linear algebra, and vector differential calculus. Fall.

ECM 5741C ECS-ECE 3(2,3) Microcomputer-based Monitoring and Control Systems: PR: EEL 3342C; EEL 4767C or C.I. Machine language programming; software development aids; systems design; interfacing considerations. Occasional.

ECO 2013 BA-ECON 3(3,0) Principles of Macroeconomics: An introduction to macroeconomics, including an overview of the market economy; national income, employment, and price level determination, stabilization policies, and international economics. Fall, Spring.

ECO 2033H BA-ECON 3(3,0) Honors Principles of Economics I: PR: Permission of Honors. Same as ECO 2013 with honors-level content. Fall, Spring.

ECO 2023 BA-ECON 3(3,0) Principles of Microeconomics: The determination of prices in a market economy; their role in allocating consumer and producer goods and in distributing incomes, including attempts to improve market efficiency through public policy. Fall, Spring.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECO 2023H</td>
<td>BA-ECON 3(3,0)</td>
<td>Honors Principles of Microeconomics</td>
<td>PR: Permission of Honors. The determination of prices in a market economy, their role in allocating consumer and producer goods and in distributing incomes, including attempts to improve market efficiency through public policy. Honors content. Occasional.</td>
</tr>
<tr>
<td>ECO 3070</td>
<td>BA-ECON 1(1,0)</td>
<td>Tutoring/Teaching Techniques for Undergraduate Economics</td>
<td>PR: Satisfactory completion of same course the student is tutoring. Prepare undergraduate students to more effectively learn economics concepts through tutoring/teaching. May be repeated for credit up to 3 times. Graded S/U. Fall, Spring.</td>
</tr>
<tr>
<td>ECO 3101</td>
<td>BA-ECON 3(3,0)</td>
<td>Intermediate Microeconomics</td>
<td>PR: ECO 2013 and ECO 2023. Theoretical study of the behavior of households, firms, and the markets in which they operate with issues and applications. Fall, Spring.</td>
</tr>
<tr>
<td>ECO 3401</td>
<td>BA-ECON 3(3,0)</td>
<td>Quantitative Business Tools I</td>
<td>PR: ECO 2023, MAC 1105. Introduction to mathematical and statistical analysis of economics and business problems. Fall, Spring.</td>
</tr>
<tr>
<td>ECO 3401H</td>
<td>BA-ECON 3(3,0)</td>
<td>Honors: Quantitative Business Tools I</td>
<td>PR: Economics major or minor, ECO 2023, MAC 1105, permission of honors. Same as ECO 3401 with Honors level content. Occasional.</td>
</tr>
<tr>
<td>ECO 3410</td>
<td>BA-ECON 3(3,0)</td>
<td>Mathematical Economics</td>
<td>PR: ECO 3401 or MAC 2233. Mathematical methods with particular focus on microeconomics foundations of individual decision-making. Even Spring.</td>
</tr>
<tr>
<td>ECO 3411</td>
<td>BA-ECON 3(3,0)</td>
<td>Quantitative Business Tools II</td>
<td>PR: Junior standing and business major or minor, ECO 2013, ECO 2023, and ECO 3401. The use of statistical methods as scientific tools in the analysis of economics and business problems. Fall, Spring.</td>
</tr>
<tr>
<td>ECO 3411H</td>
<td>BA-ECON 3(3,0)</td>
<td>Honors: Quantitative Business Tools II</td>
<td>PR: ECO 3401, permission of honors. Same as ECO 3411 with Honors level content. Occasional.</td>
</tr>
<tr>
<td>ECO 3703</td>
<td>BA-ECON 3(3,0)</td>
<td>International Trade</td>
<td>PR: ECO 2013 and ECO 2023. Fundamental principles of international trade and foreign exchange, including the balance of payments and problems of foreign economic policy. Fall.</td>
</tr>
<tr>
<td>ECO 3723</td>
<td>BA-ECON 3(3,0)</td>
<td>International Commercial Policy</td>
<td>PR: ECO 2013 and ECO 2023. Presents the fundamentals of international commercial policy, with special emphasis on U.S. trade policy since WW II. Spring.</td>
</tr>
<tr>
<td>ECO 4412</td>
<td>BA-ECON 3(3,0)</td>
<td>Econometrics</td>
<td>PR: ECO 2013, ECO 2023 and ECO 3411. Concepts and methods of developing, analyzing, and interpreting measures of economic activity, and business and economic change. Even Fall.</td>
</tr>
<tr>
<td>ECO 4451</td>
<td>BA-ECON 3(3,0)</td>
<td>Research Methods in Economics</td>
<td>PR: ECO 3101, ECO 3203 and ECO 3411. Skills in data collection and creation, data analysis, and research presentation. Fall, Spring.</td>
</tr>
<tr>
<td>ECO 4941</td>
<td>BA-ECON 3(3,0)</td>
<td>Economics Internship</td>
<td>PR: Consent of department chair. Supervised economics-related work experience in a pre-approved sponsoring organization. See department for information/application. Graded S/U. Occasional.</td>
</tr>
<tr>
<td>ECO 5005</td>
<td>BA-ECON 3(3,0)</td>
<td>Economic Concepts</td>
<td>PR: Acceptance into the graduate program. Introduction to micro and macro economic analysis. Occasional.</td>
</tr>
<tr>
<td>ECO 5006</td>
<td>BA-ECON 1.5(1,0)</td>
<td>Economic Foundations</td>
<td>PR: Acceptance to Graduate Study. Introduction to Micro and Macro Economic Analysis. Fall, Spring.</td>
</tr>
<tr>
<td>ECO 5414</td>
<td>BA-ECON 1.5(1,5)</td>
<td>Statistical Foundations</td>
<td>PR: Acceptance to Graduate Study. Statistical theory and problems relating to business and economics, including time series and correlation theory, index number theory and statistical inference. Fall, Spring.</td>
</tr>
<tr>
<td>ECP 3203</td>
<td>BA-ECON 3(3,0)</td>
<td>Labor Economics</td>
<td>PR: ECO 2013 and ECO 2023. The analysis of labor problems and issues in a dynamic contemporary economy through the interaction of the four major institutions: households, firms, government, and unions. Occasional.</td>
</tr>
<tr>
<td>ECP 3303</td>
<td>BA-ECON 3(3,0)</td>
<td>Economics and the Environment</td>
<td>PR: Sophomore standing, and ECO 2013 or ECO 2023. Analysis of environmental problems from an economic perspective, its relationship to other disciplines, and the international dimension of environmental policy. Even Fall.</td>
</tr>
<tr>
<td>ECP 4302</td>
<td>BA-ECON 3(3,0)</td>
<td>Environmental and Natural Resource Economics</td>
<td>PR: ECO 2013 and ECO 2023 or C.J. Provide fundamental insights into the interdependence between energy use, environmental quality, and the economy at both the microeconomic and macroeconomic level. Odd Fall.</td>
</tr>
<tr>
<td>ECP 4403</td>
<td>BA-ECON 3(3,0)</td>
<td>Industrial Organization and Game Theory</td>
<td>PR: ECO 2013 and ECO 2023. A study of the performance of industries and inferences representative of various types of market structure and practices, as well as the public policies affecting these industries. Even Spring.</td>
</tr>
<tr>
<td>ECP 4703</td>
<td>BA-ECON 3(3,0)</td>
<td>Managerial Economics</td>
<td>PR: Junior standing, ACG 2071, ECO 2013, ECO 2023 and ECO 3411. The uses of economic analysis in economic decision-making and business policy formulation. Open for non-majors ONLY. Spring.</td>
</tr>
<tr>
<td>ECS 4013</td>
<td>BA-ECON 3(3,0)</td>
<td>Economics of Developing Areas</td>
<td>PR: ECO 2013 and ECO 2023. The study of problems, theories, and issues of economic development with reference to the third world. Spring.</td>
</tr>
<tr>
<td>ECS 4303</td>
<td>BA-ECON 3(3,0)</td>
<td>Economics of European Integration</td>
<td>PR: ECO 2013 and ECO 2023. Presents the development of the European Community, with emphasis on the characteristics of the Single European Act (EC ‘92). Occasional.</td>
</tr>
<tr>
<td>ECS 4442H</td>
<td>BA-ECON 3(3,0)</td>
<td>Honors Economic Development of Mexico and Central America</td>
<td>PR: Permission of Honors and ECO 2013 or ECO 2023. A study of the economies of Mexico and Central America under NAFTA. Occasional.</td>
</tr>
<tr>
<td>EDE 3942</td>
<td>ED-TLP 3(0,35)</td>
<td>Internship I</td>
<td>PR: EDG 4323, RED 3012, MAE 2801, TSL 4000. Student teaching assignment in an elementary school under the supervision of a certified classroom teacher. Graded S/U. Fall, Spring.</td>
</tr>
<tr>
<td>EDE 4943</td>
<td>ED-TLP 7-12(0,35)</td>
<td>Internship II (Elementary)</td>
<td>PR: EDE 3942. Student teaching assignment in an elementary school under the supervision of a certified classroom teacher. Scheduled concurrent seminars. Graded S/U. Occasional.</td>
</tr>
<tr>
<td>EDF 1075</td>
<td>ED-ES 3(3,0)</td>
<td>Introduction to Educational Internship</td>
<td>PR: Permission of Honors and ECO 2013 or ECO 2023. A study of the foundations of educational leadership. Occasional.</td>
</tr>
<tr>
<td>EDF 2006</td>
<td>ED-ES 3(3,0)</td>
<td>Introduction to Education</td>
<td>PR: ECO 2013. A survey course including an orientation to education careers, ethics, and the historical, philosophical and sociological foundations of education. This course has a field component. Fall, Spring.</td>
</tr>
</tbody>
</table>
### UCF Courses and Descriptions

#### EDF 2283  ED-ES  3(3,0)
**Introduction to Applications of Technology in Education:** Classroom applications of instructional media including computers. Occasional.

#### EDF 3120  ED-ES  3(3,0)
**Observing Child Growth and Development:** PR: Admission to the program. Provides a comprehensive introduction to the principles and basic theories of child growth and development from pre-natal development through age eight. Fall, Odd Spring.

#### EDF 3307  ED-ES  3(3,0)
**Learning Environments and Guidance for Young Children:** PR: All courses in Block I, CR: All courses in Block II. Developmentally appropriate education materials, strategies, environments, and guidance for young children. Exploration of active learning and the development of young children's self-esteem and self-regulation. Even Spring.

#### EDF 3601  ED-ES  3(3,0)
**Professional Ethics in Education:** Pedagogical knowledge, awareness of educational process and the analytical skills necessary for responsible public involvement in educational policy making. Fall, Spring.

#### EDF 3740  ED-ES  3(3,0)
**Foundations of Early Childhood Education:** PR: Admission to the program. Overview of Early Childhood Education and services for young children and families. Includes historical, philosophical, and sociological perspectives; learning theories as related to early childhood. Occasional.

#### EDF 4214  ED-ES  3(3,0)
**Classroom Learning Principles:** PR: EDF 2005 and Junior standing or C.I. Principles of learning as applied to classroom teaching situations, with emphasis on student development, behavior, self-concept and motivation. Fall, Spring.

#### EDF 4282  ED-ERTL  3(3,0)
**Applications of Technology in Education:** Classroom applications of instructional media, including computers. Includes experiences with equipment, commercial and teacher-made media, and their uses. Occasional.

#### EDF 4466  ED-ERTL  3(3,0)
**Classroom Assessment & Evaluation Techniques:** PR: Completion of Internship I or C.I. Classroom assessment skills in designing traditional and alternative assessments, using results for student evaluation and instructor performance, and interpretation of standardized test results. Graded SU. Occasional.

#### EDF 4603  ED-ES  3(3,0)
**Analysis of Critical Issues in Education:** PR: EDF 4214 or C.I. Critical analysis of contemporary educational issues, including ethical, safety, legal, cultural, and linguistic considerations which directly impact schooling in a democracy. Fall, Spring.

#### EDF 5245  ED-ES  3(3,0)
**Preparation and Management of Classroom Instruction:** PR: C.I. Study of strategies for instructional planning and classroom management that result in optimum learning. Occasional.

#### EDF 5607  ED-ES  3(3,0)
**Language, Culture and Pedagogy: Impact and Implications:** PR: 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. Occasional.

#### EDG 4941  ED-ES  1-8(0,1-8)
**Directed Field Experience:** PR: Approval of Professional Laboratory. Field experience in an appropriate educational setting under the direction of a supervising teacher and/or university supervisor. Occasional.

#### EED 5048  ED-ES  3(3,0)
**Service Learning:** PR: PSY 2012 or C.I. Involvement with community agencies and/or schools to gain a new perspective about the central Florida community. May be repeated for credit. Fall, Spring.

#### EEE 5745  ED-ERTL  3(3,0)
**Teaching the Non-English Student:** PR: C.I. Bilingual and non-linguistic instruction in curriculum areas in English as a second language. Occasional.

#### EED 5941  ED-ES  2-8(0,11)
**Clinical Practice:** PR: Admission to STEP II, III or IV. Clinical Internship in an appropriate educational setting under the direction of a university supervisor or peer teacher. Occasional.

#### EDH 5306  ECS-MMAE  1(1,0)
**Teaching Methods in Engineering:** PR: graduate standing in an engineering discipline. This course will cover basic teaching pedagogy to help engineering students become better TA's and help students deliver better technical presentations. Occasional.

#### EDS 5356  ED-ERTL  3(2,1)
**Supervision of Professional Laboratory Experiences:** PR: C.I. Study of the undergraduate professional laboratory experiences program, with emphasis on the role and responsibilities of the Teacher Education Associate or Supervising Teacher. Occasional.

#### EEC 2001  ED-CFCS  3(3,0)
**Introduction to Early Childhood Education:** An overview of early childhood education and services for young children and their families. Includes historical roots, societal changes, program differentiation and future trends. Occasional.

#### EEC 3214  ED-ES  3(3,0)
**Early Childhood Education Learning Environment & Strategies:** PR: Admission to the program. Examines developmentally appropriate education materials, strategies, and environments for young children. Explores an integrated approach to curriculum planning and scheduling which emphasizes active learning. Occasional.

#### EEC 3268  ED-CFCS  3(3,0)
**Play Development:** Explores play development, facilitation, intervention and assessment. Designing play environments is emphasized. Fall.

#### EEC 3301  ED-CFCS  3(3,0)
**Active Learning Teaching Strategies:** Studies an integrated developmental-interactionist approach to curriculum planning and design. Equipment selection, room arrangement, daily schedules and active learning teaching strategies are emphasized. Occasional.

#### EEC 3613  ED-CFCS  3(3,0)
**Observation and Assessment of Young Children:** PR: Admission to the program. Appropriate methods for diagnosis, assessing, and evaluating young children, including children with diverse cultural and ethnic backgrounds. Appropriate interventions, remediations, and enrichment. Occasional.

#### EEC 3700  ED-CFCS  3(3,0)
**Social and Emotional Development of Young Children:** Provides an in-depth understanding of the social and emotional development of the young child. Examines the implications for curriculum development. Occasional.

#### EEC 3940  ED-CFCS  3(0,3)
**Integration Internship I:** PR: Senior Status; RED 4311 or RED 3310. Field based placement in which the students will have supervised practice integrating course content areas. Occasional.

#### EEC 4266  ED-CFCS  3(3,0)
**Early Intervention:** Provides an overview of development assessment, and intervention with at-risk and handicapped infants and toddlers. Occasional.

#### EEC 4402  ED-CFCS  3(3,0)
**Cultural and Family Systems:** Explores the institution of family in its cultural context as a living dynamic system. Occasional.

#### EEC 4524  ED-CFCS  3(3,0)
**Organization and Management in Early Childhood:** Provides students with managerial and supervisory skills required to administer a developmentally appropriate early childhood program. Occasional.

#### EEC 4528  ED-CFCS  3(3,0)
**Infant/Toddler Care and Education:** Provides the knowledge and skills that will enable the student to become a competent worker with very young children and their families. Occasional.

#### EEC 4604  ED-CFCS  3(3,0)
**Guidance of Young Children:** PR: EEC 3700. Provides students with techniques to guide the behavior of young children. Occasional.

#### EEC 4731  ED-CFCS  3(3,0)
**Health, Safety, and Nutrition for Young Children:** Health and safety issues in early childhood (0-8). Promotion of a safe and healthy environment; good nutrition, and appropriate health and fitness habits. Spring.

#### EEC 4936  ED-CFCS  2(2,0)
**Seminar in Early Childhood:** Current trends, issues and advocacy in field of early childhood education. Includes guidance and clarification concerning student teaching. Occasional.

#### EEC 4943  ED-CFCS  12(0,12)
**Student Teaching:** Provides opportunities for student teachers to use the knowledge and skills they acquired in a supervised public school setting. Graded SU. Occasional.
EC 5205  ED-CFCS  3(3,0)
Programs and Trends in Early Childhood Education:
PR: Regular Certificate or C.I. Philosophy, content, facilities, instructional materials, and activities appropriate for children ages 3 to 8 years; current research; issues and trends. Concurrent laboratory experiences. Occasional.

EC 5206  ED-CFCS  3(3,0)
Organization of Instruction in Early Childhood Education:
PR: Regular Certificate or C.I. Organization in instruction relating to language arts, social sciences, mathematics, health and physical education, problems relating to reading readiness and cognition (K-3). Concurrent laboratory experiences. Spring.

EC 5208  ED-CFCS  3(3,0)
Creative Activities in Early Childhood:
PR: Regular Certificate or C.I. Organization of instruction and methods for creative activities involving music, art, literature and educational toys, integration of activities, and basic skills curriculum (K-3). Concurrent laboratory experience. Even Fall.

ED 3250  ED-CFCS  3(3,0)
Behavioral Issues of the Emotionally Handicapped: An introduction to functional schema of the field to include behavior management techniques, theories, legal considerations, counseling skills, etiology, prevention and utilization of community services. Occasional.

ED 4011  ED-CFCS  4(4,0)
Introduction to the Emotionally Disturbed: PR: Senior standing. Development and practice of appropriate cognitive, affective, and motor strategies for selected categories, levels, and degrees of severity of exceptional population. Occasional.

ED 4210  ED-CFCS  3(3,0)

ED 4243  ED-CFCS  3(3,0)
Teaching the Emotionally Handicapped: Instructional strategies with emphasis on motivational strategies, development, implementation, and evaluation of curriculum materials and programs for students with emotional handicaps. Occasional.

ED 4244  ED-CFCS  2(2,0)

EE 3004  ECS-ECE  3(3,0)
Electrical Networks: PR: MAC 2311, MAC 2312, MAC 2313, PHY 2048, PHY 2049, CR: MAP 2302 (to enroll in this course, a C or better for the above courses is required). Analysis and design of linear circuits, transients, ac analysis, power calculations, three-phase circuits, Laplace transforms. Fall, Spring.

EE 3041  ECS-ECE  3(3,0)
Circuit Analysis: PR: PHY 2033C. Study of electrical networks. Circuit analysis techniques are presented, including DC and steady state analysis. Power calculations, power distribution and dissipation are covered with examples relating to cables, connections, and buses. Not open to EE and CP&E majors. Fall, Spring.
EEL 4767C  ECS-ECE  4(3,3)
Computer System Design I: PR: EEL 3432C and EEL 3801C. Basic computer organization and design. Computer performance metrics, introduction to processor, memory and I/O organization and design. Assembly language programing and microprocessor based design. Fall. Spring. M&S fee: $30.00

EEL 4768C  ECS-ECE  4(3,3)
Computer System Design II: PR: EEL 4767C and EEL 4851C. Continuation of EEL 4767C. Control and datapath design using a hardware description language, microprogrammed architectures, instruction and arithmetic pipelines, cache and virtual memory and RISC. Fall. Spring. M&S fee: $30.00

EEL 4781  ECS-ECE  3(3,0)

EEL 4783C  ECS-ECE  3(2,3)
Computer-Aided Engineering Design: PR: EEL 4782C. Review of currently available CAE tools for digital hardware and software design applications. Fall. Spring. M&S fee: $5.00

EEL 4791  ECS-ECE  3(2,4)
Telemetry and Space Computer Systems: PR: EEL 3552C and STA 3032, EEL 3657C, EEL 3570C, EEL 3470. Telemetry and computer sub-systems are discussed as they are implemented in the space-launch system "inertial upper stages". Occasional.

EEL 4817H  ECS-ECE  3(3,0)
Honors Current Topics in Machine Learning II: PR: Consent of Honors and EEL 4817H. Research topics in machine learning that are of current interest to the Machine Learning community. Students will be assigned a research project. With Honors consent. Occasional.

EEL 4818H  ECS-ECE  3(3,0)

EEL 4832  ECS-ECE  3(3,0)

EEL 4851C  ECS-ECE  4(3,3)
Engineering Data Structures: PR: EEL 3801C. Design of data structures and algorithms, with emphasis on performance analysis, memory organization, stacks, queues, linked lists, trees, graphs, search trees, and sorts. Introduction to object-oriented structures. Fall. Spring. M&S fee: $5.00

EEL 4872  ECS-ECE  3(3,0)
Engineering Applications of Intelligent Systems: PR: EEL 4851C. Intelligent models, computer vision, natural language understanding, pattern analysis, knowledge-based systems, symbolic programming, and advanced architectures. Occasional.

EEL 4882  ECS-ECE  3(3,0)
Engineering Systems Software: PR: EEL 4851C and EEL 4767C. Introduction to operating systems concepts and facilities for engineering applications, including multiprogramming, resource allocation and management, systems utilities, and operating system implementation. Fall. Spring.

EEL 4884C  ECS-ECE  4(3,3)
Engineering Software Design: PR: EEL 4851C. Software systems development life cycle, function and object-oriented methodologies, CASE: Analysis, design, and development of a large software project. Fall. Spring. M&S fee: $5.00

EEL 4890  ECS-ECE  3(3,0)

EEL 4914  ECS-ECE  3(2,1)
Senior Design I: PR: EEL 3307C, EEL 3657, and EEL 3552C. Applications of engineering design to realistic and meaningful problems. Constraints such as economic factors, safety, reliability, aesthetics, ethics, social impact and engineering organizations are considered. Fall. Spring.

EEL 4915L  ECS-ECE  3(0,3)
Senior Design II: PR: EEL 4914. Execution of electrical and computer engineering project including complete project design review, construction, testing and demonstration. Emphasis on design, prototyping, cost, functionality, presentation, team effort and final report. Fall. Spring. M&S fee: $15.00

EEL 5173  ECS-ECE  3(3,0)

EEL 5245C  ECS-ECE  3(2,1)
Power Electronics: PR: EEL 4309C. Principles of power electronics, power semiconductor devices, inverter topologies, switch-mode and resonant dc-to-dc converters, cycloconverters, applications. Fall.

EEL 5323C  ECS-ECE  3(2,1)
Thin Film Technology: PR: EEL 3306 or equivalent. Presents the various thin film deposition techniques for the fabrication of microelectronic, semiconductor, and optical devices. Occasional. M&S fee: $30.00

EEL 5352  ECS-ECE  3(3,0)

EEL 5353  ECS-ECE  3(3,0)
Semiconductor Device Modeling and Simulation: PR: EEL 3307C. Large signal and small signal model development for semiconductor diodes, BJTs, and MOSFETs. Parameter extraction, numerical algorithm, and SPICE simulation are included. Spring.

EEL 5355C  ECS-ECE  4(3,3)
Fabrication of Solid-State Devices: PR: EEL 3306. Fabrication of microelectronic devices, processing technology, ion implantation and diffusion, device design, and layout. Laboratory includes device processing technology. Fall. Spring. M&S fee: $45.00

EEL 5370  ECS-ECE  3(3,0)

EEL 5378  ECS-ECE  3(3,0)
CMOS Analog and Digital Circuit Design: PR: EEL 4309C. Advanced principles and design techniques for CMOS ICs including most recent published results. Fall.

EEL 5390  ECS-ECE  3(3,0)
Full-Custom VLSI Design: PR: EEL 3342C, EEL 3307C. CMOS VLSI design methodologies; full custom chip design, industrial CAD tools; simulation; verification. Spring.

EEL 5432  ECS-ECE  3(3,0)

EEL 5434  ECS-ECE  3(3,0)
Microwave Circuits and Devices: PR: EEL 4436C or EEL 5555C. Planar transmission lines; passive microwave circuits; active circuit design using Gunn, IMPATT, FETS, RTDS, etc.: microwave integrated circuits. Occasional.

EEL 5462C  ECS-ECE  3(3,1)
Antenna Analysis and Design: PR: EEL 3470 or equivalent. Fundamentals of antenna; dipoles, loops, arrays, apertures, and horns. Analysis and design of various antennas. Odd Fall. M&S fee: $5.00

EEL 5513  ECS-ECE  3(3,0)

EEL 5517  ECS-ECE  3(3,0)
Surface Acoustic Wave Devices and Systems: PR: EEL 3552C. 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. Occasional.

EEL 5542  ECS-ECE  3(3,0)

EEL 5547  ECS-ECE  3(3,0)

EEL 5555C  ECS-ECE  3(2,2)
RF and Microwave Communications: RF and microwave active circuits microstrip amplifier, oscillator, and mixer design and fabrication. Receiver design, noise, familiarization with network and spectrum analyzers. Even Fall.

EEL 5625  ECS-ECE  3(3,0)
Applied Control Systems: PR: C.I. Designed to develop basic understanding of advanced control methods for non-linear systems described by ordinary and partial differential equations and to expose recent results and ongoing research issues in the area of MEMS. Occasional.
UCF Courses and Descriptions

EEL 5630 ECS-ECE 3(3,0) Digital Control Systems: PR: EEL 3657. Real-time digital control system analysis and design, 2-transforms, sampling and reconstruction, time and frequency response, stability analysis, digital controller design. Fall.

EEL 5704 ECS-ECE 3(3,0) Computer Aided Logical Design: PR: EEL 4767C. Design, analysis and synthesis of sequential logic circuits and systems. Data path and controller design using a hardware description language. Occasional.


EEL 5722C ECS-ECE 3(3,1) Field-Programmable Gate Array (FPGA) Design: PR: EEL 5708 or C.I. FPGA architecture and design flow; applications; logic synthesis; technology mapping; placement; routing; multi-FPGA systems; reconfigurable computing; evolvable hardware. Even Fall.


EEL 5771C ECS-ECE 3(2,3) Engineering Applications of Computer Graphics: PR: EGN 3420 or C.I. Computer graphics in engineering applications. Laboratory assignments. Occasional. M&S fee: $5.00

EEL 5780 ECS-ECE 3(3,0) Wireless Networks: PR: EEL 4762 or C.I. The wireless networking topics include: cellular networks, multiple access protocols, channel assignment and resource allocation, mobility and location management, handoffs, routing, authentication, admission control and QoS provisioning, network layer issues, wireless data networking (WAP, GSM, GPRS, CDMA, WCDMA). Even Spring.

EEL 5820 ECS-ECE 3(3,0) Image Processing: PR: MAP 2302, EGN 3420, EEL 4750 or C.I. The emphasis is on signal processing techniques: pictorial image representation; spatial filtering; image enhancement and encoding; segmentation and feature extraction; introduction to image understanding techniques. Odd Spring.

EEL 5825 ECS-ECE 3(3,0) Pattern Recognition: PR: MAP 2302, EGN 3420. Graph-theoretic and syntactic methods of pattern analysis. Decision functions; optimum decision criteria; training algorithms; feature extraction; unsupervised learning; data reduction and potential functions. Occasional.

EEL 5860 ECS-ECE 3(3,0) Software Requirements Engineering: PR: Graduate standing or C.I. 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. Occasional.

EEL 5874 ECS-ECE 3(3,0) Expert Systems and Knowledge Engineering: PR: EEL 4872 or C.I. Introduction to expert systems in engineering. Expert systems tools and interviewing techniques. This course is hands-on and project oriented. Spring.

EEL 5881 ECS-ECE 3(3,0) Software Engineering I: PR: EGN 3420, EEL 4851C or C.I. Design, implementation, and testing of computer software for Engineering applications. Fall.


EES 3004 ECS-ECE 3(3,0) Environmental systems: PR: One semester of college level science, prefer Chemistry or Biology. A technical literacy course in environmental systems for wastewater, drinking water, groundwater, soil, and air treatment for non-engineering majors. Occasional.


EES 4202C ECS-CHE 3(3,3) Chemical Process Control: PR: ENV 3001. Engineering design, measurements, and analysis of chemical systems in environmental engineering to control treatment processes such as softening, coagulation, digestion, scrubbing, neutralization, and others. Fall. M&S fee: $45.00.

EES 5318 ECS-CHE 3(3,0) Industrial Ecology: PR: ENV 3001, ENV 4341. Discussion of similarities between ecological systems and industrial systems with the emphasis on material cycles, energy flow, pollution prevention, organizational structures, and environmental management. Occasional.

EES 5605 ECS-CHE 3(3,0) Outdoor Noise Control: PR: C.I. Community noise evaluation and control, legislative standards, instrumentation and measurement, abatement methods, and noise modeling. Occasional.

EET 2052C ECS-ENT 4(3,2) Electrical Circuits: PR: EET 1015C or EET 3085C. Frequency domain and steady state analysis of electric circuits: RLC circuits, timed circuits, resonance and “Q”, filters, magnetically coupled circuits, transformers, 3-phase circuits, power relationships. Occasional. M&S fee: $10.00.


EEX 2010 ED-CFCS 3(3,0) Exceptional Populations in School and Society: Characteristics of exceptionalities in school and society to increase student awareness and comfort levels with individu- als with exceptionalities. Fall, Even Spring.

EEX 2310 ED-CFCS 3(3,0) Introduction to Special Education: Orientation to the education of children and adolescents with special needs in the schools. The course includes characteristics, trends, mainstreaming, and other issues. Fall, Spring.


EET 4439C ECS-ENT 3(2,2) Software Engineering I: PR: EET 4393C. Introduction to expert systems in engineering. Expert systems tools and interviewing techniques. This course is hands-on and project oriented. Spring.

EET 4548 ECS-ENT 3(3,0) Power Systems: PR: EET 2052C or equivalent. Analysis of electrical power systems and energy conversion: 3-phase load, per-unit quantities, circuit constants, rotating machines, 3-phase transformers, transmission lines, power flow, stability and fault calculations. Fall.


EET 4915C ECS-ENT 3(1,4) Senior Design Project: PR: Electronics Engineering Technology senior entering anticipated graduation semester or C.I. Individual or group project involving project definition planning, development, test and evaluation. Progress reports, final oral presentation and final written report required. Occasional.

M&S fee: $10.00.
EEX 3102 ED-CFCS 3(3,0) Language Development and Communication Disorders: PR: Junior standing. Interdisciplinary approach to language development, identification and remediation of communication and language disorders. Occasional.

EEX 3221 ED-CFCS 3(3,0) Assessment of Exceptional Students: Formal and informal assessment techniques for screening, placement, program planning, program evaluation, and monitoring of progress of exceptional students. Fall, Spring.

EEX 3241 ED-CFCS 3(3,0) Methods for Academic Skills for Exceptional Students: PR: EEX 2010, EEX 3864. Teaching strategies, instructional materials, and monitoring techniques for children and adolescents with special needs. Must be taken before Internship I. Fall, Spring.

EEX 3243 ED-CFCS 3(3,1) Techniques for Exceptional Adolescents-Adults: CR: EEX 3241. A study of strategies, basic and functional content, career and vocational educational, and transition planning for adolescents and adults with special needs. Spring.

EEX 3450 ED-CFCS 3(3,0) Young Children With Special Needs: Provides an overview of the unique field of early childhood special education, its mission, and approaches to helping young children and their families. Spring.

EEX 3754 ED-CFCS 3(3,0) Parents as Educators: Develop parental awareness of their role in child development and school success. Attention given to social context of parenting and parents as advocates for children. Occasional.


EEX 3942 ED-CFCS 3(3,0) Internship I: Exceptional Education: PR: EGD 4323, RED 3012, EEX 2010, EEX 3241, MAE 2801. Student teaching exceptional education in secondary school setting under the supervision of a certified classroom teacher. Occasional.


EEX 4066 ED-CFCS 3(3,0) Curriculum and Instructional Strategies for Special Needs Students: PR: EEX 2010, EEX 4054, EEX 3241, EGD 4323, RED 3012, LAE 4314, MAE 2801. Development of highly specialized techniques and curriculum materials to be used with students with emotional, learning, cognitive and physical disabilities. Occasional.

EEX 4601 ED-CFCS 3(3,0) Introduction to Behavior Management: Study of management techniques based on applied behavioral analysis principles for modifying inappropriate behaviors and maintaining appropriate behaviors of exceptional students. Fall, Spring.

EEX 4751 ED-CFCS 3(3,0) Parent Involvement in Education: This course prepares students to successfully interact with and involve parents in their child's education. Occasional.

EEX 4753 ED-CFCS 3(3,0) Parent/Professional Collaboration: The special educator's role in working with families, regular educators, and other professionals in a collaborative relationship. Fall.

EEX 4943 ED-CFCS 12(0,35) Internship II: PR: Completion of specialization. Satisfactory completion of the portfolio. Full day student teaching under a certified special education teacher in an elementary or secondary school. May be repeated for credit. Graded S/U. Occasional.

EEX 5051 ED-CFCS 3(3,0) Exceptional Children in the Schools: PR: Senior standing or C.I. Characteristics, definitions, educational problems, and appropriate educational programs for the exceptional children in schools. Fall, Spring.

EEX 5702 ED-CFCS 3(3,0) Planning Curriculum for Pre-kindergarten Children with Disabilities: Focus on curriculum planning, developmentally appropriate practices and implementation of individualized instruction for pre-kindergarten children with disabilities. Odd Spring.

EEX 5750 ED-CFCS 3(3,0) Communication with Parents and Agencies: Presentation of methods of interacting with community agencies, supporting and collaborating with families, developing a case management system, and facilitating program transition. Occasional.

EGM 3601 ECS-MMAE 3(3,0) Solid Mechanics: PR: EGN 3310; CR: MAP 2302. Concepts of stress, strain, deflection; axial force, torsion, bending; combined stress, Mohr's circle, failure theories; design concepts, application to machines and vehicles. Fall, Spring.

EGE 1006C ECS-ECS 1(1,2) Introduction to the Engineering Profession: PR: New student status or C.I. Overview of academic and professional requirements in various engineering disciplines. Fall. M&S fee: $5.00

EGE 1007C ECS-ECS 1(1,2) Engineering Concepts and Methods: PR: New student status or C.I. EGN 1006C and ENC 1201; CR: SPC 1016. Introduction to the use of computer and applications software in solving engineering problems. Introduction to the concepts of engineering design through the use of teams: engineering communication; engineering professionalism and ethics. Spring. M&S fee: $5.00

EGN 1036C ECS-MMAE 2(1,1) Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Engineering & Computer Science providing a foundation of leadership, scholarship, and service regarding disciplines in the college. Fall, Spring.


EGN 1111C ECS-MMAE 2(1,3) Engineering Computer Graphics: PR: Trigonometry. Spatial visualization, sketching and graphical presentation as a form of computerized engineering communication. Engineering drawing, descriptive geometry and graphical solution techniques using computer software. Fall, Spring. M&S fee: $10.00


EGN 2920C ECS-EMS 2(1,1) LEAD Colloquium: PR: C.I., LEAD Scholars Program. Must have completed at least two of the following with a grade of B or better, IDS 1040C, GEB 1091C, EGN 1036C, EGD 1005C or HSC 1931C. Provides experiential leadership experience in an appropriate leadership setting under the direction of a university supervisor with the LEAD Scholars Program. May be repeated for credit. Occasional.

EGN 3060C ECS-ECS 3(2,3) Introduction to Robotics: PR: Engineering majors take EGN 1007C and (EEL 3004 or EGN 3373); Computer Science majors take COP 3330, COP 3503C and COP 3960. Introduction to classical and modern topics in robotics: mechanisms and mechatronics, sensors, data processing, and vision, kinematics and dynamics, path and motion planning, controls, AI and evolutionary computing, cooperative control and behaviors. Occasional.

EGN 3211 ECS-ECE 3(3,0) Engineering Analysis and Computation: PR: MAC 2311. Engineering analysis and computation with structured constructs. Subscribed variables, subprograms, input/output. Batch processing and time sharing. Engineering applications will be emphasized. Fall, Spring.

EGN 3310 ECS-CEE 3(3,0) Engineering Analysis-Statistics: PR: PHY 2048; CR: MAC 2312. Fundamental concepts of mechanics, including resultants of force systems, free-body diagrams, equilibrium of rigid bodies, and analyses of structures. Fall, Spring.

EGN 3310H ECS-CEE 3(3,0) Engineering Analysis-Statistics (Honors): PR: Permission of Honors and PHY 2048; CR: MAC 2312. (Honors section for EGN 3310) Advanced treatment of material and additional topics. More challenging assignments. Project work. May be repeated for credit. Fall.

EGN 3321 ECS-MMAE 3(3,0) Engineering Analysis-Dynamics: PR: EGN 3310; CR: MAC 2313. Kinematics and kinetics of particles and rigid bodies; mass and acceleration, work and energy, impulse and momentum. Fall, Spring.

EGN 3321H ECS-ECE 3(3,0) Engineering Analysis - Dynamics Honors: PR: Permission of Honors and PHY 2048; CR: MAC 2312. (Honors section for EGN 3310) Advanced treatment of material and additional topics. More challenging assignments. Project work. May be repeated for credit. Fall.

UCF Courses and Descriptions

EGN 3343  ECS-MMAE  3(3,0)

EGN 3358  ECS-MMAE  3(3,0)

EGN 3365  ECS-MMAE  3(3,0)

EGN 3373  ECS-ECE  3(3,0)

EGN 3373H  ECS-ECE  3(3,0)

EGN 3420  ECS-ECE  3(3,0)
Engineering Analysis: PR: High-level computer language; MAC 2312. Engineering applications of numerical methods including curve fitting, matrix operations, root finding, interpolating, integration and plotting. Fall, Spring.

EGN 3613  ECS-IEMS  2(2,0)

EGN 3704  ECS-CEE  2(2,0)
Engineering and the Environment: PR: CHS 1440 and MAC 2312. Process engineering for air, energy, water, and land environment and the role of engineering in control of these environments. Occasional.

EGN 3843  ECS-IEMS  3(3,0)

EGN 4412C  ECS-MMAE  3(1,5)
Interdisciplinary Design I: PR: Industrial: EIN 3346C; Comp and Elect: EEL 3330C, EEL 3357, EEL 3352C, EEL 3801C; Aero: EAS 3810C; CR: EEL 4331C, EEL 4340C; Comp Sci: COT 3760, COT 3802; Mech: EML 3500, EML 3701, EML 3300C; CR: EML 4312C, EML 3801C. Application of the design process for interdisciplinary students to solve state-of-the-art engineering problems by system analysis, design, integration, manufacture and testing methods. Fall.

EGN 4413C  ECS-MMAE  3(1,5)
Interdisciplinary Design II: PR: EGN 4412C. Continuation of Interdisciplinary Design I may be repeated for credit. Spring.

EGN 4624  ECS-IEMS  3(3,0)
Engineering Administration: PR: Senior standing. Engineering organization and administration; delegation of authority and responsibility; effective use of resources; project management; P and D planning; ethics in professional practice. Fall, Spring.

EGN 4706C  ECS-MMAE  3(2,4)
Small Satellite Payloads and Integration: PR: EML 3330C OR EAS 3800C OR EEL 3801C OR ESI 4523C. Evaluate overall impact of integration and design concepts on various satellite component subsystems and their payloads into a small satellite system design leading to a final configuration. Occasional.

EGN 4707C  ECS-MMAE  3(2,4)
Processing Space-Launch Systems: PR: For ECE: EEL 3525C or EEL 4767C; For IEMS: ESI 4523C; For MAE: EAS 3800C. Assembly and test techniques for preparing and check-out of the space-launch system "Inertial Upper Stage." May be repeated for credit. Occasional.

EGN 4824  ECS-ENT  3(3,0)

EGN 4830  ECS-ENT  3(3,0)
Telecommunications: Telecommunications and its role in contemporary local, national, and international society. Occasional.

EGN 4931H  ECS-ECS  3(3,0)
Engineering Honors Seminar: PR: Permission of Honors and Senior standing and C.I. Introduces a select group of students in engineering or other fields of science to the methodology commonly employed in research. Students will carry out independent research which will prepare them for graduate study. Occasional.

EGN 4933C  ECS-ECS  1(1,1)
Professional Practice I: PR: Junior standing in engineering or computer science. Contemporary global technical issues, professional development, life long learning, and ethical responsibilities. Community service and/or community outreach projects required. Occasional.

EGN 5035  ECS-ECS  3(3,0)
Topics in Technological Development: PR: C.I. Selected topics in the technological development of western civilization including the weight-driven clock, steam engine, electricity, light, etc. Occasional.

EGN 5720  ECS-IEMS  3(2,3)
Internal Combustion Engine Analysis and Optimization: PR: EGN 3343 or ENS 3258 or C.I. Internal combustion engine operating principles. Topics covered include engine design and operating parameters, combustion, thermodynamics, induction flow, and basic mathematical models. Occasional. M&S fee: $45.00

EGN 5840  ECS-MMAE  3(3,0)
Small Rocket Applications for Teachers: PR: Admission to Martin Marietta/UCF Academy. Earth and space environment, rocket propulsion, meteorological and environmental measurements, payload launch procedures, orbits and trajectories, safety, model rocket experiments, field trips, student science experiments. Occasional.

EGN 5855C  ECS-IEMS  3(2,2)
Metrology: PR: EIN 4391C or C.I. Advanced topics in inspection and measurement with applications in engineering and manufacturing. Occasional.

EGN 5858C  ECS-IEMS  3(2,1)
Prototyping and Product Realization: PR: Basic knowledge and/or experience in CAD/CAM technology or C.I. Product design and development cycle including design for functionality and manufacturability. Fundamentals, applications and practice of rapid prototyping and reverse engineering technologies. Occasional. M&S fee: $45.00

EIN 3001  ECS-IEMS  2(2,0)
Introduction to Industrial Engineering and Management Systems: Issues important to the operation of an industrial or service facility. Fall.

EIN 3314C  ECS-IEMS  3(3,0)

EIN 3354  ECS-IEMS  3(3,0)
Principles of Cost Engineering: PR: EGN 3613. This course is to provide engineers from all disciplines the background for the cost estimation of engineering systems throughout the product life cycle. Fall.

EIN 4214  ECS-IEMS  3(3,0)

EIN 4243C  ECS-IEMS  3(2,2)
Human Engineering: PR: EIN 3314C; Senior standing. Man/machine systems; design and conduct of human engineering studies. Spring. M&S fee: $20.00

EIN 4333C  ECS-IEMS  3(2,3)

EIN 4364C  ECS-IEMS  3(2,2)
Industrial Facilities Planning and Design: PR: EIN 3346C. Comprehensive design of industrial production systems, including interrelationships of plant location, process design, and materials handling. Laboratory assignments. Spring.

EIN 4391C  ECS-IEMS  3(2,2)
Manufacturing Engineering: PR: EGN 3365. Introduction to manufacturing engineering, with emphasis on current and emerging technologies in metalworking and electronics. Fall. M&S fee: $20.00

EIN 4450  ECS-IEMS  3(3,0)
Principles of Concurrent Engineering: PR: EGN 3613 or C.I. Elements of concurrent engineering and its application. Topics include quality function deployment and design for manufacturing and assembly, Even Spring.

EIN 4516C  ECS-IEMS  3(2,2)
Systems Analysis and Design: PR: EIN 4346C. Systems analysis methodology, system requirements, specifications, system design methodology and decision support. Consulting skills and client interactions, initiation of senior design projects. Fall. M&S fee: $20.00
EM A 5060  E C S - M M A E  3(3,0)

EM A 5104  E C S - M M A E  3(3,0)

EM A 5106  E C S - M M A E  3(3,0)

EM A 5108  E C S - M M A E  3(3,0)
Surface Science: PR: PHY 2049 and C.I. Methods of chemical and physical analysis of surfaces, with emphasis on ultra-high vacuum spectrosocopes utilizing electron, ion, and photon probes. Occasional.

EM A 5140  E C S - M M A E  3(3,0)
Introduction to Ceramic Materials: PR: EGN 3365. Uses, structure, physical and chemical properties, and processing of ceramic materials. Discussions will include recent developments for high technology applications. Occasional.

EM A 5317  E C S - M M A E  3(3,0)

EM A 5326  E C S - M M A E  3(3,0)

EM A 5504  E C S - M M A E  3(2,2)
Modern Characterization of Materials: PR: EMA 5104 or C.I. Techniques and operation of instrumentation (light, scanning, transmission, and auge microscopy) for the characterization of structure, defects, composition, and surfaces. Occasional.

EM A 5505  E C S - M M A E  3(2,2)
Scanning Electron Microscopy: PR: EMA 5104 or C.I. A review of electron optics, beam/specimen interactions, imaging formation, x-ray analysis, specimen preparation, microelectronic applications and cryostatography in the SEM. Occasional.

EM A 5517  E C S - M M A E  3(2,2)
Advanced Materials Characterization by Ion Beam Analysis: PR: EMA 5504 or C.I. Principle of interactions between ion beam and solid materials; sputtering and scattering theories; fundamentals and applications of secondary ion mass and Rutherford Backscattering spectrometry. May be repeated for credit. Occasional.

EM A 5584  E C S - M M A E  3(3,0)

EM A 5585  E C S - M M A E  3(3,0)
Materials Science of Thin Films: PR: Graduate standing or C.I. Interaction of thin film processing techniques with the structure and properties of the materials deposited. Odd Fall.

EM A 5586  E C S - M M A E  3(3,0)

EM A 5587C  E C S - M M A E  3(2,2)

EM A 5588  E C S - M M A E  3(3,0)
Biocompatibility of Materials: PR: EGN 3365 or C.I. Biocompatibility and bioactivity; Cell-biometric interactions; Engineering bone & cartilage; Soft-tissue replacements; Total hip replacements; Nanostructured biomaterials; Imaging techniques, Preservation techniques for biomaterials, MSDS and FDA compatibility data. Occasional.

EM A 5610  E C S - M M A E  3(3,0)

EM A 5705  E C S - M M A E  3(3,0)
High Temperature Materials: PR: EMA 5104 or C.I. Desired material properties for high temperature applications, physical metallurgy of such materials, corrosion, hot corrosion and oxidation properties, aerop- and land-based gas turbine requirements. Occasional.

EM E 2040  E D - E R T L  3(1,0)
Technology for Educators: Introduction to technology for educators, including classroom management tools, multimedia, communication networks, interactivity, educational software and legal, ethical and social issues. Fall, Spring. M&S fee: $1.00

EM E 5050  E D - E R T L  3(3,0)
Fundamentals of Technology for Educators: PR: Postbac or C.I. 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. Fall, Spring.

EM E 5051  E D - E R T L  3(3,0)
Technologies of Instruction & Information Management: PR: Acceptance into Ed Media program or C.I. Theories and practices in utilizing instructional media and information technologies. Emphasis on new and emerging technologies and their effects on the school and media program. Fall.

EM E 5053  E D - E R T L  3(3,0)
Electronic Resources for Education: PR: Graduate standing or C.I. Study and application of electronic resources available for education including techniques for locating, evaluating, and integrating them into the classroom.

EM E 5057  E D - E R T L  3(3,0)
Communication for Instructional Systems—Application: Applications of technology, communications theory, platform skills, and instructional design to the effective presentation of training programs and instruction. Occasional.

EM E 5208  E D - T L P  3(3,0)
Production Techniques for Instructional Settings: PR: Acceptance into Ed Media Program or C.I. Skills in producing instructional materials. Emphasis on graphic, audio, video, and photographic skills and the application of instructional and communication theories. Spring.

EM E 5225  E D - T L P  3(3,0)
Media for Children and Young Adults: PR: Acceptance into Ed Media Program or C.I. Survey of materials for children's and young adults' informational and recreational needs; analysis, evaluation, and utilization of print and non-print materials. Spring.

EM E 5581  E D - E R T L  1(1,0)
Teaching and Learning with Technology: Overview of technologies for teaching and for learning. Practical strategies for using technology in the classroom. (May be repeated 3 times for credit.) Occasional.

E M L 3001C  E C S - M M A E  1(1,2)

E M L 3034C  E C S - M M A E  3(3,1)

E M L 3101  E C S - M M A E  3(3,0)
Thermodynamics of Mechanical Systems: PR: EGN 3343. Applied thermodynamics, availability analysis, thermodynamics of reactive and non-reactive mixtures, thermodynamic relations of properties. Thermodynamic design analysis of complete mechanical systems. Fall.

E M L 3262  E C S - M M A E  3(3,0)
Kinematics of Mechanisms: PR: EGN 3321. Graphical, mathematical, and computer-aided kinematics, analysis, and synthesis of basic mechanisms. Fall.

E M L 3303C  E C S - M M A E  2(2,2)

E M L 3500  E C S - M M A E  3(3,0)

E M L 3701  E C S - M M A E  3(3,0)
EML 3804C ECS-MMAE 3(2,3) Digital Control in Mechatronics: PR: EML 4312C. Discrete microprocessor control of mechatronics dynamic systems using state-space representation; Digital controllers. Design for mechatronic applications. Spring. M&S fee: $15.00


EML 4024C ECS-MMAE 3(2,2) Engineering Design Practice: PR: EML 3034C and EML 3500 or EAS 4200. Basic CAD/CAM solid modeling techniques in a project oriented environment. Students will construct part models, drawings, and assemblies. Use of in-house software. Fall, Spring.


EML 4260 ECS-MMAE 3(3,0) Dynamics of Machinery: PR: EML 3262 and EML 4220. Critical speeds and response of flexible rotor systems, whirl, gyroscopic effects, balancing of rotating and reciprocating masses, cam dynamics. Occasional.

EML 4264 ECS-MMAE 3(3,0) Vehicle Dynamics: PR: EML 3262 and EML 4220. Basic mechanics governing vehicle dynamics, performance and handling; acceleration, braking, ride, cornering, suspension, steering, rollover. Occasional.

EML 4293 ECS-MMAE 3(3,0) Essentials of Miniature Engineering Systems: PR: Graduate status or C.J. Engineering of miniature mechanical, thermal, energy, and electrical systems, including advantages, microfabrication methods, and future trends. Occasional.

EML 4304C ECS-MMAE 2(1,3) Thermo-Fluids Measurements: PR: EML 3303C and EML 4142. Measurements in thermo-fluid systems with emphasis on design of experiments. Spring. M&S fee: $45.00

EML 4312C ECS-MMAE 3(2,3) Feedback Control: PR: EGN 3321, MAP 2302, EGN 3373 and EML 4220 or EAS 4210C. Mathematical modeling of dynamic systems: transient and steady state response; Root Locus and r-Transform methods; discrete systems analysis; controller design. Fall.

EML 4411 ECS-MMAE 3(3,0) Mechanical Power Systems: PR: EML 3101. Analysis and design of large power generating systems and components, with emphasis on steam plants utilizing both chemical and nuclear fuels. Occasional.

EML 4501C ECS-MMAE 3(1,6) Engineering Design I: PR: EML 3500, EML 3701 and EML 3303C. Application of the design process in the team solution of a state-of-the-art problem. Aerospace, mechanical, thermal-fluid, or material problems are considered. Fall, Spring. M&S fee: $15.00

EML 4502C ECS-MMAE 3(1,6) Engineering Design II: PR: EML 4501C. Continuation of the design process in the team building and testing of a prototype. A test plan and a test report are completed. Fall, Spring. M&S fee: $45.00

EML 4535C ECS-MMAE 3(2,3) CAD/CAM: PR: EGN 3343, EML 3034C, and EGM 3801; CR EAS 4200 or EML 3500. CAD/CAM/FEM computational technology. Basic concepts. Concurrent engineering approach to mechanical, thermal, and aerospace systems design and analysis. Use of in-house software. Fall, Spring. M&S fee: $15.00

EML 4600 ECS-MMAE 3(3,0) HVAC Systems Engineering: PR: EML 3101 and EML 4142. Heating, ventilation, air-conditioning and refrigeration principles and systems design. Psychrometrics, heating and cooling loads, equipment and components, and distribution systems. Fall.

EML 4703 ECS-MMAE 3(3,0) Fluid Mechanics II: PR: EML 3701. Continuation of Fluid Mechanics I. External flows, fluid machinery, compressible flows, design projects. Fall.

EML 5060 ECS-MMAE 3(3,0) Mathematical Methods in Mechanical, Materials and Aerospace Engineering: PR: MAP 2302. Vector field theory, generalized coordinates, complex variables, contour integration and LaPlace and Fourier transforms and inversion, variable coefficient ODEs and solution of PDEs for governing equations of heat transfer, ideal fluid flow, and mechanics. Fall.


EML 5105 ECS-MMAE 3(3,0) Gas Kinetics and Statistical Thermodynamics: PR: EAG 4134 or EML 4703. Molecular and statistical viewpoint of gases and thermodynamics; Boltzmann collision integral, partition functions, non-equilibrium flows. Applications in thermo-fluid systems. Occasional.


EML 5211 ECS-MMAE 3(3,0) Continuum Mechanics: PR: EML 3500 or EML 4703 or EAS 4200 or C.I. Introduction to tensors; deformation and strain; stress; balance laws, applications in Newtonian fluid dynamics and isotropic linear elasticity. Fall.

EML 5224 ECS-MMAE 3(3,0) Acoustics: PR: EML 4220. CR: EML 5060. Elements of vibration theory and wave motion; radiation, reflection, absorption, and transmission of acoustic waves; architectural acoustics; control and abatement of environmental noise pollution; transducers. Occasional.


EML 5245 ECS-MMAE 3(3,0) Tribology: PR: EGN 3365, EGN 3331 and EML 3701. Principles of fluid film lubrication (liquid and gas, journal and thrust bearings), contact mechanics, controlling element bearings, design of bearings and load bearing surfaces, friction and wear of materials, tribostesting. Occasional.


EML 5291 ECS-MMAE 3(3,0) MEMS Materials: PR: EML 5060, EML 5211, or C.I. Introduction of materials that are frequently used for MEMS applications such as silicon, glass, metals, and related terminology, constitutive relationships at these scales and how these relationships affect the behavior and performance of systems. Effect of miniaturization on a few common engineering systems. Odd Fall.

EML 5292 ECS-MMAE 3(3,0) Fundamental Phenomenon and Scaling laws in Miniature Engineering Systems: PR: EML 5060, EML 5211, or C.I. Introduction to meso-, micro-, and nano-scales, and related terminology, constitutive relationships at these scales and how these relationships affect the behavior and performance of systems. Odd Fall.

EML 5311 ECS-MMAE 3(3,0) System Control: PR: EML 4121C; CR: EML 5080. Modern control theory for linear and non-linear systems; controllability and observability. Linear state feedback and state estimators, compensator design. Occasional.

EML 5402 ECS-MMAE 3(3,0) Turbomachinery: PR: EML 3101, EML 4703 or EAS 4134. Application of the principles of fluid mechanics, thermodynamics, and aerodynamics to the design and analysis of steam and gas turbines, compressors, and pumps. Occasional.

EML 5532C ECS-MMAE 3(2,3) Computer-Aided Design for Manufacture: PR: EGN 4535C. 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. Even Fall. Spring. M&S fee: $15.00

343
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>EML 5587C</td>
<td>Mechanics of Biostructures I</td>
<td>3(2,3)</td>
<td>PR: Graduate student. Part of a two-semester sequence. Mechanical analysis of hard (bone) and soft (organs, connective tissues, etc.) biostructures and the analysis includes preparation and experimental testing for constitutive equations for predictive modeling. Even Fall.</td>
</tr>
<tr>
<td>EML 5588C</td>
<td>Mechanics of Biostructures II</td>
<td>3(2,3)</td>
<td>PR: EML 5587C. Part II of a two-semester course. Mechanical analysis of hard (bone) and soft (organs, connective tissues, etc.) biostructures and the analysis includes preparation and experimental testing for constitutive equations for predictive modeling. Even Fall.</td>
</tr>
<tr>
<td>EML 5605</td>
<td>Applied HVAC Engineering</td>
<td>3(3,0)</td>
<td>PR: EML 4600. Applications of HVAC systems design with the objective of optimizing energy efficiency, humidity control, ventilation and indoor air quality. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>EML 5606</td>
<td>HVAC Systems Engineering</td>
<td>3(3,0)</td>
<td>PR: EML 3101, EML 4142, EML 3034C. Heating, ventilation, air-conditions and refrigeration principles, system design and analysis. May be repeated for credit. Odd Fall.</td>
</tr>
<tr>
<td>EML 5713</td>
<td>Intermediate Fluid Mechanics</td>
<td>3(3,0)</td>
<td>PR: EML 4703 CR: EML 5600. Fluid kinematics; conservation equations; Navier-Stokes equations; boundary layer flow, inviscid flow, circulation and vorticity; low Reynolds number flow, turbulence. Occasional.</td>
</tr>
<tr>
<td>EMR 4362</td>
<td>Teaching Students with Mental Handicaps</td>
<td>4(4,0)</td>
<td>PR: EEX 2010. Relationship between the characteristics of students with mental handicaps and specialized instructional materials, strategies and curriculum. Occasional.</td>
</tr>
<tr>
<td>EMR 4372</td>
<td>Curriculum Method and Materials for Retarded Persons</td>
<td>3(3,0)</td>
<td>PR: Senior standing. Development of highly specialized techniques, curriculum and materials to be used with students with mental retardation. Occasional.</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition I: Expository writing with emphasis on effective communication and critical thinking. Emphasizing the writing process writing topics are based on selected readings and on student experiences. The &quot;NC&quot; grading policy applies to this course. Fall, Spring.</td>
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<tr>
<td>ENC 1101H</td>
<td>Honors Freshman Composition I</td>
<td>3(3,0)</td>
<td>PR: Score of 60+ on TSWE of SAT or C.I. and permission of Honors. Expository writing with emphasis on effective communication and critical thinking. Emphasizing the writing process writing topics are based on selected readings and on student experiences. The &quot;NC&quot; grading policy applies to this course. Fall, Spring.</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Composition II: PR: ENC 1101 with a grade of &quot;C&quot; or better. Focus on extensive research in analytical and argumentative writing based on a variety of readings from the humanities. Emphasis on developing critical thinking and diversity of perspective. The &quot;NC&quot; grading policy applies to this course. Fall, Spring.</td>
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<tr>
<td>ENC 1102H</td>
<td>Honors Freshman Composition II</td>
<td>3(3,0)</td>
<td>PR: ENC 1101H with a grade of &quot;C&quot; or better and C.I. and permission of Honors. Same as ENC 1102, with honors-level content. Note on Freshman English Program: ENC 1101 and 1102 must be taken before enrolling in any English course numbered above 1102. The &quot;NC&quot; grading policy applies to this course. Fall, Spring.</td>
</tr>
<tr>
<td>ENC 2127</td>
<td>Grammar and Composition</td>
<td>3(3,0)</td>
<td>Grammar and mechanics to improve editing for clarity and accuracy in writing. Occasional.</td>
</tr>
<tr>
<td>ENC 2215</td>
<td>Writing for the Business Professional</td>
<td>3(3,0)</td>
<td>PR: ENC 1102, Junior standing or C.I. Emphasis on clear expository writing of memoranda, reports, and articles in the student's declared field of business. Occasional.</td>
</tr>
<tr>
<td>ENC 2411C</td>
<td>Digital Literacy for the Liberal Arts: Designed to help students better understand how computer technologies have shaped our culture and ourselves; to become critical consumers of technology; to acquire a critical sensibility regarding the manner in which technology affects and is affected by texts. Occasional.</td>
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<tr>
<td>ENC 2901</td>
<td>Honors Technical Writing</td>
<td>3(3,0)</td>
<td>PR: ENC 2901 or ENC 3241 or C.I. Striving to produce technical writing that is clear, efficient, and effective. Instruction and practice in expository writing with emphasis on the preparation of technical documents for the lay audience. Occasional.</td>
</tr>
<tr>
<td>ENC 3211</td>
<td>Theory and Practice of Technical Writing</td>
<td>3(3,0)</td>
<td>PR: ENC 1102. Junior standing or C.I. Provides definition, history, scope, practices, and theoretical bases of technical writing and its relationship to general English studies. Fall, Spring.</td>
</tr>
<tr>
<td>ENC 3211H</td>
<td>Honors Theory and Practice of Technical Writing</td>
<td>3(3,0)</td>
<td>PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Definition, history, scope, practices, and theoretical bases of technical writing and its relationship to general English studies. Occasional.</td>
</tr>
<tr>
<td>ENC 3241</td>
<td>Writing for the Technical Professional</td>
<td>3(3,0)</td>
<td>PR: ENC 1102, Junior standing, or C.I. Emphasis on the preparation of technical documents for the lay audience. Fall, Spring.</td>
</tr>
<tr>
<td>ENC 3241H</td>
<td>Honors Technical Writing</td>
<td>3(3,0)</td>
<td>PR: ENC 3241 or ENC 3241H or C.I. Emphasis on the preparation of technical documents for the lay audience. Occasional.</td>
</tr>
<tr>
<td>ENC 3250</td>
<td>Professional Writing</td>
<td>3(3,0)</td>
<td>PR: ENC 1102, Junior standing, and 12 upper division hours in the student's major. Major elements of professional writing with emphasis on composition of reports, proposals, letters, and memos. Fall, Spring.</td>
</tr>
<tr>
<td>ENC 3310</td>
<td>Magazine Writing I</td>
<td>3(3,0)</td>
<td>PR: Grade of C (2.0) or better required in ENC 1102. Intensive practice in description narration, exposition and argumentation; control of tone, mood, viewpoint, and level of diction. Applicable to article, essay, and short story writing. Fall, Spring.</td>
</tr>
<tr>
<td>ENC 3311</td>
<td>Journal Writing Practicum</td>
<td>3(3,0)</td>
<td>PR: Grade of C (2.0) or better required in ENC 1102. Practice of expository writing directed to general reader. Fall, Spring.</td>
</tr>
<tr>
<td>ENC 3905</td>
<td>Directed Experience in Writing</td>
<td>3(3,0)</td>
<td>PR: ENC 1102, C.I. Individualized topics of study and/or research in writing with personalized faculty direction. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>ENC 3942</td>
<td>Journal Writing Practicum</td>
<td>3(3,0)</td>
<td>PR: Grade of C (2.0) or better required in ENC 1102. Practice of expository writing directed to general reader. Fall, Spring.</td>
</tr>
<tr>
<td>ENC 4215</td>
<td>Technical Publication and Project Management</td>
<td>3(3,0)</td>
<td>PR: ENC 3211 or ENC 3241 or C.I. New publishing technology, stressing composition and printing; word processing, automated text processing, methods of reproduction, invention of graphic; style, format, layout, and boardwork. Spring.</td>
</tr>
<tr>
<td>ENC 4218</td>
<td>The Visual in Technical Documentation</td>
<td>3(3,0)</td>
<td>PR: ENC 4293. Relevant theories of the visual and their application to technical communication practice. Fall.</td>
</tr>
<tr>
<td>ENC 4262</td>
<td>International Technical Communication</td>
<td>3(3,0)</td>
<td>PR: Grade of C (2.0) or better required in ENC 3211 or ENC 3241 or C.I. International issues in the field of technical communication including internationalizing documents, user interface design, international collaboration, and rhetorical and logical challenges. Occasional.</td>
</tr>
<tr>
<td>ENC 4265</td>
<td>Writing for the Computer Industry</td>
<td>3(3,0)</td>
<td>PR: ENC 1102 and Junior standing, or C.I. Creating different kinds of software manuals or online help systems for the computer industry. Occasional.</td>
</tr>
<tr>
<td>ENC 4275</td>
<td>Writing/Consulting: theory &amp; practice</td>
<td>3(3,0)</td>
<td>PR: C.I. Theory and practice of assessing and responding to writing from the standpoint of a collaborator, as opposed to evaluator. Occasional.</td>
</tr>
<tr>
<td>ENC 4280</td>
<td>Technical Writing Style</td>
<td>3(3,0)</td>
<td>PR: ENC 3211 or ENC 3241 or C.I. Strategies for understanding and improving writing styles, particularly for a variety of technical writing genres. Spring.</td>
</tr>
</tbody>
</table>
ENC 4290  CAH-ENG  3(3,0)  Usability Testing for Technical Communication:  PR: ENC 4293 or C.I. Usability theory and techniques for evaluating manuals, online documentation, and other technical communication genres. Occasional.

ENC 4293  CAH-ENG  3(3,0)  Technical Documentation I:  PR: ENC 3211 or ENC 3241. Practice in translating highly technical information to organized documentation: hardware, software, military specifications. Theory of designing and organizing technical manuals. Preparation of proposals. Interview skills. Fall, Spring.

ENC 4294  CAH-ENG  3(3,0)  Technical Documentation II:  PR: ENC 4293. Practical application of editing theory to large ongoing projects from the student's particular field. Should be taken concurrently with ENC 4215. Fall, Spring. M&S fee: $10.00

ENC 4295  CAH-ENG  3(3,0)  Technical Documentation III:  PR: ENC 4294. Designing, writing, and illustrating manuals, e.g., repairs, maintenance or users. Project supervised by a member of a student's major department or technical editor of a corporation. Fall, Spring. M&S fee: $10.00

ENC 4312  CAH-ENG  3(3,0)  Theory & Practice of Persuasive Writing:  PR: ENC 1102. A study of the theory and practice of persuasion, including logical, emotional and ethical appeals. Occasional.

ENC 4360  CAH-ENG  3(3,0)  Nature Writing:  PR: CRW 3013 or C.I. Students will write essays that explore different approaches to writing about the natural world, and will discuss issues raised by such writing. Occasional.

ENC 4414  CAH-ENG  3(3,0)  Writing and Hypertext:  PR: Grade of C (2.0) or better required in ENC 3211 or ENC 3241. Theories of electronic literacy and information to develop a more critical sensibility regarding hypertext. Occasional.

ENC 4415  CAH-ENG  3(3,0)  Digital Rhetorics and The Modern Dyadec:  PR: ENC 1102. This online course explores the development of digital/rhetorical interactions through a close reading and analysis of formative rhetorical texts, modern American fiction and films. Fall, Spring.

ENC 5214  CAH-ENG  3(3,0)  Production and Publication Methods:  PR: Graduate status or senior standing or C.I. Theory and practice of production and publication methods for technical writers. Occasional.

ENC 5216  CAH-ENG  3(3,0)  Editing Professional Writing:  PR: Graduate status or senior standing or C.I. The study of major issues in editing, including levels of edit, grammar and mechanics, visuals, style, and the impact of technology. Fall, Spring.

ENC 5219  CAH-ENG  3(3,0)  Graphics in Technical Writing:  PR: Graduate status or senior standing or C.I. A study of the creation and editing of graphics in technical documents. Occasional.

ENC 5225  CAH-ENG  3(3,0)  Theory and Practice of Document Usability:  PR: Graduate status or senior standing or C.I. Presents theory and practice of how document usability is assessed and improved. Occasional.

ENC 5237  CAH-ENG  3(3,0)  Writing for the Business Professional:  PR: Graduate status or senior standing or C.I. A study of the major document design fields for professionals in business, focusing on audience, purpose, style, arrangements, and content. Fall, Spring.

ENC 5245  CAH-ENG  3(3,0)  Teaching Professional Writing:  PR: Graduate status or senior standing or C.I. Prepares students to determine writing needs of professional discourse communities, analyze those needs, and design in-house or freelance writing programs to address those needs. Occasional.

ENC 5256  CAH-ENG  3(3,0)  Gendered Rhetoric:  PR: Graduate status or senior standing or C.I. Questions women's and men's linguistic choices, the influence of medium and discipline of discourse, and consequences of status, power, and oppression. Occasional.

ENC 5276  CAH-ENG  3(3,0)  Writing/Consulting: Theory & Practice:  PR: Graduate status or senior standing or C.I. The theory and practice of assessing and responding to writing as a collaborator (as opposed to evaluator). Occasional.

ENC 5277  CAH-ENG  3(3,0)  Teaching Writing With Computers:  PR: Graduate status or senior standing or C.I. To provide immersion in the theories and practices of writing in electronic spaces including current discourse conventions from speech and print media. Occasional.

ENC 5291  CAH-ENG  3(3,0)  Developing Professional Writing Projects:  PR: Graduate status or C.I. Developing Professional Writing is a course in which students learn the basics of planning writing projects, including scheduling, budgeting, collaborative writing, production, and problem solving. Occasional.

ENC 5306  CAH-ENG  3(3,0)  Persuasive Writing:  PR: Graduate status or senior standing or C.I. Theory and practice of writing persuasively. Occasional.

ENC 5335  CAH-ENG  3(3,0)  Rhetorical Traditions:  PR: Graduate status or senior standing or C.I. To provide a foundation for research by familiarizing students with the chronological spectrum practice and theory of rhetorical form classical to contemporary times. Fall, Spring.

ENC 5367  CAH-ENG  3(3,0)  Modern Rhetorical Theory:  PR: Graduate status or senior standing or C.I. With special attention to the rhetorical-audience relationship, the course studies history and practice of modern rhetorical theory. Spring.

ENC 5388  CAH-ENG  3(3,0)  The Rhetoric of Public Debate:  PR: Graduate status or senior standing or C.I. To examine how rhetorical theories further community goals, including activist, political, legislative, and other significant public debates. Occasional.

ENC 5344  CAH-ENG  3(3,0)  Proposal Writing:  PR: Graduate status or senior standing or C.I. Theory and practice of writing proposals. Occasional.

ENC 5425  CAH-ENG  3(3,0)  Hypertext Theory and Design:  PR: grade status, post bac, or senior standing, or C.I. Theoretical and practical study of the uses and premises of hypertext. Occasional.

ENC 5427  CAH-ENG  3(3,0)  Hypertext:  PR: Graduate status or senior standing or C.I. A study of the theory and practice of computer-driven hypertext. Occasional.

ENC 5705  CAH-ENG  3(2,1)  Theory and Practice in Composition:  PR: Graduate status or senior standing or C.I. Intensive study of theories of composition, with practical experience in the writing laboratory and in composition classes. Spring.

ENC 5712  CAH-ENG  3(3,0)  Studies in Literacy and Writing:  PR: Graduate standing or C.I. To study the theories of cultural and critical literacy, definitions of literacy, and current political issues in literacy studies. Odd Fall.

ENC 5745  CAH-ENG  3(3,0)  Teaching Practicum:  PR: ENC 5705, graduate status or senior standing, or C.I. To supplement and deepen theoretical and practical experiences during their first teaching semester, GTA's will participate in staff development and individual conferences with their mentors. Occasional.

ENC 5930  CAH-ENG  3(3,0)  Current Topics in Professional Writing:  PR: Graduate status or C.I. Students will learn how to produce texts for specialized fields of discourse, including the medical and legal profession, as well as for general publication. Occasional.

ENC 5945  CAH-ENG  3(3,0)  Community Literacy Practicum:  PR: Graduate status or senior standing or C.I. Designed to deepen theoretical understanding of literacy through participation in a community literacy project. Occasional.

ENG 3010  CAH-ENG  3(3,0)  Practical Criticism:  PR: ENC 1102. Student evaluation of selected fiction, poetry, and drama through practical exercises in literary criticism. Occasional.

ENG 3014  CAH-ENG  3(3,0)  Theories and Techniques of Literature Study:  PR: ENC 1102, Junior standing, or C.I. Techniques of analysis, theories of interpretation, and application of critical approaches to selected works. Fall, Spring.

ENG 3073  CAH-ENG  3(3,0)  Cultural Studies Literature:  PR: ENC 1102. The theoretical and cultural developments over time that call for broadening the applications of literary analysis to produce “cultural studies.” Occasional.

ENG 4114  CAH-ENG  3(3,0)  Literature and Film:  PR: ENC 1102 and ENC 3041. The differences in emphasis, medium, and technique in selected novels and their film adaptations. Occasional.

ENG 5009  CAH-ENG  3(3,0)  Methods of Bibliography and Research:  PR: Graduate status or senior standing or C.I. Bibliographical, library and systematic approaches to research at the graduate level in language and literature. Fall.

ENG 5018  CAH-ENG  3(3,0)  Literary Criticism:  PR: Graduate status or senior standing or C.I. Historical survey of major critics from classical antiquity to the modern era. Spring.

ENL 2012  CAH-ENG  3(3,0)  English Literature I:  PR: ENC 1102. Beowulf to 1798. Fall, Spring.
ENL 2022 CAH-ENG 3(3,0) English Literature II: PR: ENC 1102. From 1798 to 1914. Fall, Spring.

ENL 3951 CAH-ENG 3(3,0) Orlando Shakespeare Festival: PR: ENC 1102. Involvement in theory and practice of Shakespeare’s art by performance-oriented study and participation in the Orlando Shakespeare Festival’s pre-season activities and productions. Occasional.

ENL 3951H CAH-ENG 3(3,0) Orlando Shakespeare Festival Honors: PR: ENC 1102 and permission of Honors. Honors theory and practice of Shakespeare’s art by performance-oriented study and participation in the Orlando Shakespeare Festival’s pre-season activities and productions. Occasional.


ENL 4220 CAH-ENG 3(3,0) English Renaissance Poetry and Prose: PR: ENC 1102 and ENG 3014. The course will examine selected poetry and prose of Wyatt, Surrey, Sidney, Spenser, Marlowe, Raleigh, Daniel, Shakespeare, Chapman, Lyly & others. Occasional.

ENL 4230 CAH-ENG 3(3,0) 18th Century Studies: PR: ENC 1102 and ENG 3014. Reading, analysis, and discussion of literature in English: 1690-1880. May be repeated for credit. Occasional.

ENL 4240 CAH-ENG 3(3,0) English Romantic Writers: PR: ENC 1101, ENC 1102 and ENG 3014. Study of English poets and essayists of the romantic period, such as Wordsworth, Coleridge, Hazlitt, Lamb, Byron, Shelley, and Emily Bronte. Occasional.

ENL 4253 CAH-ENG 3(3,0) The Victorian Age: Poetry: PR: ENC 1102 and ENG 3014. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, the Rossettis, and Emily Bronte. Occasional.


ENL 4311 CAH-ENG 3(3,0) Chaucer: PR: ENC 1102 and ENG 3014. The Canterbury Tales, Troilus and Criseyde, and other works. Occasional.

ENL 4333 CAH-ENG 3(3,0) Shakespeare Studies: PR: ENC 1102 and ENG 3014. Reading, analysis, and discussion of Shakespeare’s plays. May be repeated for credit. Occasional.

ENL 4341 CAH-ENG 3(3,0) Milton and His Age: PR: ENC 1102 and ENG 3014. Paradise Lost, Paradise Regained, Samson Agonistes, shorter poems and selected prose. Occasional.

ENL 5006 CAH-ENG 3(3,0) British Literature: Medieval to Modern: PR: Graduate status or senior standing or C.I. Survey of British Literature from beginnings to present, with instruction in the fundamentals of prose, poetry and drama. Emphasis on Literature’s social and historical contexts. Occasional.

ENL 5237 CAH-ENG 3(3,0) Eighteenth Century Studies: PR: Graduate status or senior standing or C.I. Reading, analysis, and discussion of literature in English: 1680-1830. Occasional.

ENL 5250 CAH-ENG 3(3,0) The Victorian Age: Poetry: PR: Graduate status or senior standing or C.I. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, Hardy, the Rossettis, Emily Bronte, and others. Occasional.

ENL 5256 CAH-ENG 3(3,0) Victorian Literature: PR: Graduate status or senior standing or C.I. A study of the major prose works and selected poetry of British Victorian writers. Occasional.

ENL 5335 CAH-ENG 3(3,0) Studies in Shakespeare: PR: Graduate status or senior standing or C.I. A selection of representative plays, with emphasis on Shakespeare’s development as an artist: aesthetics of dramatic literature. Occasional.

ENL 5347 CAH-ENG 3(3,0) The Age of Milton: PR: Graduate status or senior standing or C.I. Emphasis on the non-dramatic works of John Milton. Selections from the non-dramatic works of other 17th-century figures. Occasional.

ENV 3001 ECS-CEE 3(3,0) Introduction to Environmental Engineering: PR: CHM 2046 and MAC 2312. Introduction to concepts and terminology of environmental engineering. Stress on measurement and energy balances. Covers air, water, and land pollution. May be repeated for credit. Fall, Spring.

ENV 4008C ECS-CEE 3(2,2) Environmental Engineering Capstone Design: PR: one of ENV 4563C, ENV 4300C, ENV 4122C, or CWR 4812C. An interdisciplinary capstone design experience requiring problem definition, data collection, analysis of alternatives, economic evaluation of alternatives, and oral and written presentation of final design. Occasional.

ENV 4112C ECS-CEE 3(2,2) Air Pollution Measurements Lab: Measurement of gaseous flow, isokinetic sampling, and pollutant quantification. Emphasis is placed on EPA methods. Occasional. M&S fee: $30.00

ENV 4120 ECS-CEE 3(3,0) Air Pollution Control: PR: EGN 3343 and CWR 3201 and ENV 3001. Air resources engineering design, and operation of air pollution control systems. Fall.

ENV 4122C ECS-CEE 3(2,2) Air Pollution Control Design: PR: ENV 4120. Project course on design of air pollution control equipment and systems. Occasional.

ENV 4300C ECS-CEE 3(2,2) Solid Waste Facility Design: PR: ENV 4341. Project course on design of a municipal solid waste landfill. Occasional. M&S fee: $15.00

ENV 4341 ECS-CEE 3(3,0) Solid Waste Management: PR: ENV 3001 or C.I. Engineering design, planning, and analysis problems associated with storage, collection, processing, and disposal of solid and hazardous wastes. Fall.

ENV 4432 ECS-CEE 3(3,0) Potable Water Treatment: PR: ENV 3001 and CWR 3201. Detailed investigation of principles of design and operation of potable water treatment facilities. May be repeated for credit. Occasional.
ESE 3940 ED-TLP 3-16(0,3-16) Internship I — Secondary: PR: EDG 4323 and C.I. Student teaching in a secondary school under the supervision of a certified classroom teacher. Graded SU. Occasional.

ESE 4943 ED-TLP 7-12(0,35) Internship II — Secondary: PR: ESE 3940 or EDE 3942. Student teaching in a secondary school under the direction of a certified classroom teacher. Scheduled concurrent seminars. Graded SU or Letter grade. Occasional.


ESE 4234 ECS-IEMS 3(3,0) Quality Engineering: PR: STA 3032. Basic concepts and techniques of quality control; applications of statistics in industrial research; design of quality assurance systems; reliability engineering. Fall.

ESE 4312 ECS-IEMS 3(3,0) Operations Research: PR: STA 3032. Introduction to linear, non-linear, and dynamic programming. Decision analysis, random processes, and queuing. Course covers theory through application and implementation of results. Fall.

ESE 4321 ECS-IEMS 3(3,0) Quantitative Techniques in Industrial Engineering: PR: ESI 4312. Extension of ESI 4312, with primary emphasis on Operations Research and statistical applications to industrial engineering problems. Even Fall.

ESE 4523C ECS-IEMS 3(2,3) Systems Simulation: PR: STA 3032, EGN 3211 or high level programming language. Methods and procedures for simulating large-scale systems with digital computers. High level programming and simulation languages are used. Spring. M&S fee: $20.00.


ESE 5219 ECS-IEMS 3(3,0) Engineering Statistics: PR: C.I. Discrete and continuous probability distributions, hypothesis testing, regression, non-parametric statistics and ANOVA. Fall. Spring.

ESE 5227 ECS-IEMS 3(3,0) Total Quality Improvement: PR: STA 3032 or equivalent. 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. Fall.

ESE 5236 ECS-IEMS 3(3,0) Reliability Engineering: PR: ESI 4234 or equivalent, or C.I. Reliability theory and modeling approaches. Topics include: failure data analysis, maintainability, reliability standards (OOS), software reliability, reliability in design, and electronic systems reliability. Fall.
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<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ETG 4950C</td>
<td>Senior Design Project</td>
<td>3,1(4)</td>
<td>Senior Standing. Engineering Technology major and must be within 18 hours of graduation. Supervised individual or group projects involving project definition, planning, development, testing, and evaluation. Fall, Spring.</td>
</tr>
<tr>
<td>ETI 3418C</td>
<td>Computer Numerical Controls - Machining Applications</td>
<td>3,2(2)</td>
<td>PR: ETI 3550C. Theory of methods and concepts for machining, computer numerical control programs, types of operations, cutting tools, machine tools, and electrical discharge machines. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>ETI 3421</td>
<td>Materials and Processes</td>
<td>3,3(0)</td>
<td>PR: MAC 1105 and MAC 1114 or equivalent. Chemistry. A study of fundamental properties of materials. Current industrial practices in founding, forming, joining and shaping processes. Fall.</td>
</tr>
<tr>
<td>ETI 3671</td>
<td>Technical Economic Analysis</td>
<td>3,3(0)</td>
<td>PR: MAC 1105 or equivalent. Analysis of cost elements in technical operations. Basis for comparison of alternatives. Spring.</td>
</tr>
<tr>
<td>ECI 3690</td>
<td>Technical Sales</td>
<td>3,3(0)</td>
<td>PR: Junior standing or C.I. Application of technical knowledge to sales and service. Relationship of technical sales organization to production, customers, and competitors. Even Spring.</td>
</tr>
<tr>
<td>ECI 4150</td>
<td>Spacecraft Quality Assurance And Testing</td>
<td>3,3(0)</td>
<td>PR: PHY 253C. Quality assurance, reliability, and testing of space hardware and software, with the examination of designing, manufacturing, testing, and operation. Occasional.</td>
</tr>
<tr>
<td>ECI 4186</td>
<td>Applied Reliability</td>
<td>3,3(0)</td>
<td>PR: ETI 3116. Practical application of reliability concepts and analysis applicable to the design, production and logistics phases of systems and system components. Odd Spring.</td>
</tr>
<tr>
<td>ECI 4205</td>
<td>Applied Logistics</td>
<td>3,3(0)</td>
<td>PR: ETI 3116 or C.I. Introduction to logistics. Emphasis on practical applications. Includes system engineering, costsystems effectiveness, reliability, maintainability, system functional analysis, logistic support analysis, life cycle cost analysis. Fall.</td>
</tr>
<tr>
<td>ECI 4318</td>
<td>Ground System Design</td>
<td>3,3(0)</td>
<td>PR: PHY 253C. Fundamentals of ground system design and operation, its architecture and technology. Cost and performance trade offs in the spacecraft-to-ground communications link and ground system design. Occasional.</td>
</tr>
<tr>
<td>ECI 4382C</td>
<td>Launch Processing Technology</td>
<td>3,1(4)</td>
<td>PR: or C.I. ETI 4150 or C.I. Processes and methods in the preparation, integration, and launch of a space payload and launch vehicle. Includes hands-on launch processing activities in a laboratory environment. Occasional.</td>
</tr>
<tr>
<td>ECI 4448</td>
<td>Applied Project Management</td>
<td>3,3(0)</td>
<td>PR: Junior Standing. Statement of work, activity decisions, timelines, scheduling, and resource allocation methods. Techniques will be appropriate for large and small projects within commercial, academic, or non-profit organizations. Spring.</td>
</tr>
<tr>
<td>ECI 4635</td>
<td>Technical Administration</td>
<td>3,3(0)</td>
<td>PR: Junior Standing. Techniques of applying management principles to professional positions held by Engineering Technologists. Management functions of planning, organizing, motivating, and controlling, production, sales, and service. Fall, Spring.</td>
</tr>
<tr>
<td>ECI 4640</td>
<td>Operations Management for Technologists</td>
<td>3,3(0)</td>
<td>PR: ETI 4635C. Scheduling techniques (PERT), (CPM), are presented. Time Study Methods, Work Sampling and MTM are covered. Fall.</td>
</tr>
<tr>
<td>ECI 4661C</td>
<td>Applied Facilities Planning and Design</td>
<td>3,2(2)</td>
<td>PR: ETI 3421, engineering drawing and senior standing. The design of manufacturing facilities and material handling systems. Occasional.</td>
</tr>
<tr>
<td>ECI 4700</td>
<td>Occupational Safety</td>
<td>3,3(0)</td>
<td>PR: Junior standing. Accident prevention and the operation of an industrial safety program. Basic requirements of the Occupational Safety and Health Act standards. Occasional.</td>
</tr>
<tr>
<td>ECI 4835</td>
<td>Rocket Propulsion Technology</td>
<td>3,3(0)</td>
<td>PR: PHY 2053C, Calculus I, II, CAD. Principles of rocketry; solid, liquid and hybrid rocket stages; specific impulse computations; fuel and thrust computations; nose cone, and nozzle designs; ignition mechanisms. Fall.</td>
</tr>
<tr>
<td>ECI 4836</td>
<td>Space Systems Technology</td>
<td>3,3(0)</td>
<td>PR: PHY 2053C. Applied space technology, design of space systems, space environment, flight dynamics, atmospheric drag, power supply, communications technology. May be repeated for credit. Fall.</td>
</tr>
<tr>
<td>ECI 4837C</td>
<td>Technology of Small Space Payloads</td>
<td>3,2(2)</td>
<td>PR: ETI 4836 and high level programming lang. Principles of technology in the design of small rocket and microsatellite payloads; power requirements; telemetry requirements of data transmission; thermal control, shock and vibration tests. Fall. M&amp;S fee: $34.60.</td>
</tr>
<tr>
<td>ECI 4838</td>
<td>Flight Dynamics Technology</td>
<td>3,3(0)</td>
<td>PR: PHY 2053C, Calculus I, II, CAD. Orbital trajectory design; analysis of vehicle sustained g-forces; vehicle vibration analysis; orbital maneuvering; atmospheric re entry; launch windows; rocket apogee and down range computations; wind corrections and launch angles. Spring.</td>
</tr>
<tr>
<td>ECI 4839</td>
<td>Space Electro-Optics Technology</td>
<td>3,3(0)</td>
<td>PR: PHY 2053C, Calculus I, II, CAD. Engineering aspects of current electro-optics and laser-optics technology in theory and application, including design, system integration, system alignment, system calibration, and testing. Occasional.</td>
</tr>
<tr>
<td>ECI 4920</td>
<td>Applied Energy Systems</td>
<td>4,4(0)</td>
<td>PR: MAC 2253 or MAC 2311; Chemistry, College Physics. Introduction to energy, work, and thermal systems and processes. Applications of heat energy with emphasis on solar energy. Spring.</td>
</tr>
<tr>
<td>ECI 4925</td>
<td>Manufacturing of Photonics</td>
<td>3,3(0)</td>
<td>PR: EST 3222. Manufacturing processes and practices of photonic devices and systems. Tolerance studies, manufacturing lines, tests, measurements, and other topics related to low and high volume photonics manufacturing. Fall.</td>
</tr>
<tr>
<td>ECI 4940C</td>
<td>Applied Heat Transfer</td>
<td>4,3(2)</td>
<td>PR: ETG 3541 or equivalent, MAC 2253 or MAC 2311. An introduction to the basic concepts and applications of conduction, convection and radiation heat transfer. Basic energy balances and their applications are emphasized. Study state and transient phenomena are evaluated, including numerical solutions. Spring.</td>
</tr>
<tr>
<td>ECI 4933C</td>
<td>Applied Fluid Mechanics</td>
<td>4,3(2)</td>
<td>PR: MAC 2253 or MAC 2311; PHY 2053 or equivalent. An introduction to the basic concepts of hydrostatics and hydrodynamics covering fluid statics, flow of ideal fluids, continuity of mass, impulse and momentum principles, conservation of energy, flow of fluid in pipes, etc. Occasional.</td>
</tr>
<tr>
<td>ECI 4755</td>
<td>Applied Air Conditioning</td>
<td>4,4(0)</td>
<td>PR: ETM 4331C. Analysis of body comfort, psychometrics, heating and cooling load, specification of air conditioning systems, air distribution systems and system piping requirements. Occasional.</td>
</tr>
<tr>
<td>EUH 2000</td>
<td>Western Civilization I</td>
<td>3,3(0)</td>
<td>A survey of western civilization from ancient to 1648. Fall, Spring.</td>
</tr>
<tr>
<td>EUH 2000H</td>
<td>Honors Western Civilization</td>
<td>3,3(0)</td>
<td>PR: Permission of Honors. A survey of western civilization from ancient to 1648. Honors-level content. Fall, Spring.</td>
</tr>
<tr>
<td>EUH 2001</td>
<td>Western Civilization II</td>
<td>3,3(0)</td>
<td>A survey of western civilization from 1648 to present. May be taken before EUH 2000. Fall, Spring.</td>
</tr>
<tr>
<td>EUH 2001H</td>
<td>Honors Western Civilization II</td>
<td>3,3(0)</td>
<td>PR: Permission of Honors. A survey of western civilization from 1648 to present. May be taken before EUH 2000. Honors-level content. Fall, Spring.</td>
</tr>
<tr>
<td>EUH 3122</td>
<td>Medieval Society and Civilization</td>
<td>3,3(0)</td>
<td>PR: EUH 2000 and C.I. Fall, Spring.</td>
</tr>
</tbody>
</table>
EUH 3142 CAH-HIST 3(3,0) Renaissance and Reformation: PR: EUH 2000 and 2001 or C.I. Influence of Renaissance humanism on arts, letters, and politics; Luther and Protestantism; the Catholic Counter-Reformation and the Thirty Years War. Occasional.

EUH 3235 CAH-HIST 3(3,0) Romanticism and Realism: PR: EUH 2000 and 2001 or C.I. Napoleon and nationalism; new ideas; conservation; liberal, romanticism, republicanism and socialism; urbanization, technology and mass culture, religious decline; Realpolitik, racism, imperialism, and militarism. Occasional.

EUH 3242 CAH-HIST 3(3,0) Modern Europe and the First World War: A survey of the impact of the democratic institutions, education, transport, housing, health, mass communications, entertainment, women, and warfare. Occasional.

EUH 3281 CAH-HIST 3(3,0) Second World War and Rebirth of Europe: PR: EUH 2000 and 2001 or C.I. Origins of World War II; Hitler's "New Order," and resistance movements; Cold War; de-Stalinization of Russia; Sovietization of East Central Europe; Western reconstruction, and prosperity. Occasional.

EUH 3315 CAH-HIST 3(3,0) History of Modern Spain: PR: Modern European History (18th-20th century). The evolution of Modern Spain through its key institutions, cultural as well as social movements, and impact of political and intellectual trends, 1700-Present. Occasional.


EUH 3431 CAH-HIST 3(3,0) History of Modern Italy: PR: EUH 2000. The history of modern Italy from the origins of national unification through the post-World War II era. Occasional.

EUH 3431H CAH-HIST 3(3,0) Honors History of Modern Italy: PR: EUH 2001 and consent of Honors. The history of modern Italy from the origins of national unification through the post-World War II era, with honors content. Occasional.

EUH 3451 CAH-HIST 3(3,0) History of Modern France: PR: EUH 2001, EUH 2002 or C.I. The course traces the evolution of France through the study of French political thought, institutional development, social movements, and international roles from 1700 - present. Occasional.

EUH 3531 CAH-HIST 3(3,0) Medieval Ireland: PR: EUH 2000 and EUH 2001 or C.I. Ireland's historical and cultural development from 1129 to 1607. Occasional.

EUH 3651 CAH-HIST 3(3,0) War and Society: Evolution of weapons, tactics, strategy, role, social status, recruitment of soldiers; influence of military on governments; and international efforts to preserve peace. Occasional.

EUH 4284 CAH-HIST 3(3,0) Fascism and the Totalitarian Dictatorships: PR: EUH 2000 and 2001 or C.I. Totalitarian ideologies, institutions, and practices in Lenin's and Stalin's Russia, Mussolini's Italy, and Hitler's Third Reich; fascist movements in the non-totalitarian states. Occasional.


EUH 4465 CAH-HIST 3(3,0) Hitler's Third Reich: PR: EUH 2000 and 2001 or C.I. German nationalism and militarism; World War I and Versailles Treaty; the Weimar Republic and the rise of the Nazis; Second World War, division and recovery. Occasional.

EUH 4500 CAH-HIST 3(3,0) English History to 1485: PR: EUH 2000 and 2001 or C.I. Occasional.

EUH 4501 CAH-HIST 3(3,0) English History: 1485-1815: PR: EUH 2000 and 2001 or C.I. Occasional.

EUH 4502 CAH-HIST 3(3,0) British History: 1815-Present: PR: EUH 2000 and 2001 or C.I. Occasional.

EUH 4571 CAH-HIST 3(3,0) History of Russia to 1801: PR: EUH 2000 and 2001 or C.I. Kievan State; Mongol Yoke; Development of Muscovite Expansionism and Absolutism; Time of Troubles; Westernization of Russia under Peter I and Catherine; Role of Orthodox Church. Occasional.

EUH 4574 CAH-HIST 3(3,0) History of Russia: 1801-1917: PR: EUH 2000 and 2001 or C.I. Alexander I; Napoleonic Invasion, Revolutionary Movement; Russian Policy toward Central Asia and China; Great Reforms; Russo-Japanese War; Revolution of 1905; Constitutional Period; Triple Entente. Occasional.


EUH 4582 CAH-HIST 3(3,0) 20th Century Russian Diplomatic History: PR: C.I. Russian diplomatic history from the signing of the Entente Cordiale to the aftermath of the Cold War. Occasional.

EUH 4610 CAH-HIST 3(3,0) Women in European Society: From Medieval to Modern: PR: Junior standing or C.I. This course examines the changing situation of women in Europe from the Middle Ages to the twentieth century. Occasional.

EUH 4620 CAH-HIST 3(3,0) European Great Powers: 1815-1914: PR: EUH 2000 and 2001 or C.I. Congress of Vienna, Metternich's system Crimean War, unifications of Italy, Germany, the Bismarckian era, the alliance systems, and the outbreak of World War I. Occasional.


EUH 5285 CAH-HIST 3(3,0) Colloquium in Europe Since World War II: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in European history since WW II. Occasional.

EUH 5371 CAH-HIST 3(3,0) Colloquium in Spanish History: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in Spanish history. Occasional.

EUH 5415 CAH-HIST 3(3,0) Rome and Early Christianity: PR: Graduate standing or C.I. Current trends in historical literature in Christianity from its development as a distinct religion to its relations with and eventual "triumph" within the Roman Empire. Occasional.

EUH 5546 CAH-HIST 3(3,0) Colloquium: British History: PR: Graduate status or senior standing or C.I. Selected topics in British history. May be repeated for credit when content is different. There is no standard syllabus because content is different with each offering. Occasional.

EUH 5579 CAH-HIST 3(3,0) Colloquium in Soviet Russia: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in Russian history, 1911-present. Occasional.

EUH 5595 CAH-HIST 3(3,0) Colloquium in Czarist Russia: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature of Russia under the Czars prior to 1917. Occasional.

EUH 5608 CAH-HIST 3(3,0) Colloquium European Intellectual History: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics of European intellectual history. Occasional.

EVR 5930 COS-BIOL 1(1,0) Seminar in Conservation Issues: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in European history since WW II. Occasional.

EVT 3062 ED-TLP 3(3,0) Professional Role of the Vocational Teacher: PR: EVT 3371 or C.I. Occasional.

EVT 3312 ED-TLP 3(3,0) Course Construction in Health Occupations Education: PR: EVT 3365 or C.I. Planning and preparation of materials, managing the laboratory and involvement in appropriate Vocational Student Organizations. Clinical instruction related to vocational education and industry training. Occasional.

EVT 3365 ED-TLP 3(3,0) General Methods/Testing Evaluation in Vocational Education: General teaching methods, testing and evaluation. Techniques specific to Vocational Education and Industry Training. Odd Fall.

EVT 3367 ED-TLP 3(3,0) Evaluation of Vocational Instruction: PR: EVT 3371 or C.I. Study, practice, and achievement of competency in assessing student cognitive, affective, and psychomotor performance in vocational education. Spring.

EVT 3371 ED-TLP 3(3,0) Course Construction in Industrial Education: PR: EVT 3365 or C.I. Planning and preparing instructional materials, organizing and managing the Industrial Education laborato-ry, and involvement in VICA. Occasional.
EVT 3502 ED-TLP 3(3,0) Special Needs of Vocational Students: PR: EVT 3365 or C.I. Achievement of teacher competency in meeting the special needs of the handicapped, culturally different, slower learner, those with basic skill deficiencies, and those in non-traditional programs. Spring.


EVT 4169 ED-TLP 3(3,0) Curriculum Development Techniques for Industry Training: The practical application of fundamental knowledge, important skills, alternative analysis methods, and the critical elements of the trainers' analysis tasks. Spring.

EVT 4368 ED-TLP 3(3,0) Advanced Teaching Techniques for Vocational Education: PR: EVT 3365 or C.I. Study, practice, and achievement of techniques including cooperative learning, simulation, instructional modeling and evaluation of instructional effectiveness. Fall.

EVT 4815 ED-TLP 3(3,0) Safety in the Technical Education Classroom and Laboratory: PR: EVT 3365 or C.I. Federal regulations, safety practices, guidance, and support materials for technical trainers and teachers in school and industrial settings. Occasional.

EVT 5260 ED-TLP 2(2-4,0) Cooperative Programs in Vocational Education: PR: Regular Certificate or C.I. Study of cooperative vocational programs and achievement of competencies needed to establish, manage, and coordinate co-op program activities in all vocational areas. Occasional.

EVT 5561 ED-TLP 2(2-3,0) Student Guidance in the Vocational Program: PR: Basic Teacher Certificate or C.I. Achievement of skills used by teachers as they gather student data, confer with students, and help students plan for employment or further education. Occasional.

EVT 5817 ED-TLP 2(2-4,0) Management of Vocational Programs: PR: Rank III Certificate or C.I. Study and achievement of selected competencies needed by vocational teachers, supervisors, and local administrators in the management of vocational education programs in the schools. Occasional.


EXP 4507C COS-PSYCH 3(1,4) Advanced Human Memory and Cognition: PR: PSY 3213C, EXP 3604C. In-depth coverage of experimental research on human memory and cognition. Occasional. M&S fee: $15.00

EXP 5208 COS-PSYCH 3(3,0) Sensation and Perception: PR: Graduate status or senior standing or C.I. A study involving human information processing with regard to physical and psychological variables in sensory and perceptual phenomena. Odd Spring.

EXP 5254 COS-PSYCH 3(3,0) Human Factors and Aging: PR: Graduate status, post-bac, or senior standing or C.I. An overview of issues related to enhancing quality of life of elderly through the implementation of basic human factors principles in environmental design and task design. Even Fall.

EXP 5256 COS-PSYCH 3(3,0) Human Factors I: PR: Graduate status or senior standing or C.I. Survey of human factors literature. Introduction to topics including human capabilities and human interfaces with human-machine systems. Fall.

EXP 5445 COS-PSYCH 3(3,0) Psychology of Learning and Motivation: PR: DEP 5057, and graduate status or senior standing or C.I. Examination of theories and research concerning the acquisition and retention of behavior, as well as motivational factors which influence learning and behavior. Occasional.

FIL 1001 CAH-FILM 3(3,0) Cinema Survey:Introductory course that focuses on different approaches to studying cinema. Fall, Spring.

FIL 1001H CAH-FILM 3(3,0) Honors Cinema Survey: PR: Permission of Honors. Introductory course that focuses on different approaches to studying cinema. Honors-level content. Fall, Spring.

FIL 1007 CAH-FILM 3(3,0) Foundations of Story: Analysis of dramatic and cinematic narrative structures, both plot and character, from an historical and cultural perspective. Fall, Spring.

FIL 1008 CAH-FILM 3(3,0) Cinematic Expression/Aesthetics: Analysis and practice of aesthetic principles essential in filmmaking, including composition, moving graphics, image design, lighting styles. Fall, Spring. M&S fee: $13.00

FIL 1009 CAH-FILM 3(3,0) Cinematic Expression for Majors: PR: FIL 1007 or FIL 1100. Analysis and practice of aesthetic principles essential in filmmaking, including composition, moving graphics, image design, and lighting styles. Spring.

FIL 1100 CAH-FILM 3(3,0) Foundations of Story for Majors: PR: Pending Film majors or Film minors. Analysis of dramatic and cinematic narrative structures, both plot and character, from an historical and cultural perspective. Occasional.

FIL 1226 CAH-FILM 3(3,0) Film Production Tools: Basic tools of filmmaking, including digital video cameras, 16 mm cameras, basic lighting equipment, non-linear editing equipment, sound recording and mixing, laboratory processing, and digital post-production. Occasional.

FIL 2107 CAH-FILM 3(3,0) Script Analysis: CR: ENC 1101, FIL 1007. Introduction to dramatic and visual storytelling techniques used in both traditional and non-traditional filmmaking and screenwriting. Fall, Spring.

FIL 2200 CAH-FILM 3(3,0) Cinematography I: PR: Film majors, FIL 2274C, FIL 2220. Concepts and tools of cinematography and lighting. Fall. M&S fee: $45.00

FIL 2220 CAH-FILM 3(3,0) Directing I: PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Introduction to processes and techniques of directing. Spring.

FIL 2221 CAH-FILM 3(3,0) Acting for Film I: PR: BFA Film majors. Acting through use of various acting techniques, developing an ability to direct and work with actors effectively. Fall.

FIL 2224C CAH-FILM 3(3,0) Foundations of Production: Production techniques for non-majors. Introduction to basic techniques used in film making. Students must supply their own video equipment and editing equipment. Any format is acceptable. Fall, Spring.

FIL 2274C CAH-FILM 3(3,2) Editing I: PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Basic editing concepts and techniques, using non-linear editing systems. Spring. M&S fee: $45.00

FIL 2400 CAH-FILM 3(2,2) History of Motion Pictures: The history of motion pictures as art and industry, from 1895 to the present. Fall, Spring. M&S fee: $25.00

FIL 2532 CAH-FILM 3(3,0) The American Film Artist: The evolution and growth of a film artist, the emergence of a unique personal vision, and its influence on society. May be repeated for credit when content differs. Fall. M&S fee: $10.00

FIL 3006 CAH-FILM 3(3,0) Art of the Cinema: An analysis of basic elements of cinematic style including film direction, editing, cinematography, art direction and sound. Fall, Spring. M&S fee: $25.00

FIL 3102 CAH-FILM 3(3,0) Writing for Film and TV: PR: ENC 1102, Junior Standing. Theories and process of screen writing for motion pictures and television. Students learn how to create stories and scripts for the entertainment marketplace. Fall, Spring.

FIL 3106C CAH-FILM 3(2,3) Introduction to Scriptwriting: PR: Film majors only. Rudiments of scriptwriting, including visual storytelling, story structure, character, dialogue, and introduction to scriptwriting software. Occasional.

FIL 3124 CAH-FILM 3(3,0) Short Script I: PR: Film major and FIL 2107. Rudiments of writing the short script. Analysis of script models and examination of differences between long and short forms. Writing scripts for workhops. Fall, Spring.

FIL 3125 CAH-FILM 3(3,0) Short Script II: PR: Film major, FIL 3124. Advanced writing of short scripts in preparation for Capstone 1 and 2 courses. Even Spring.
major. To provide both professional skills and attitudes and final film projects from initial concept through production. Intensive tutorial guidance, instruction and evaluation of edit assigned projects, give basic understanding of editorial sound mixing and sound editing using advanced protocols. Sound Design III: FIL 4213 CAH-FILM 3(3,0) Analysis of visual structure of film. Specific problems in art direction. FIL 4213 CAH-FILM 3(3,0) Sound Design II: FIL 4212C CAH-FILM 3(2,4) Direction: FIL 4212C CAH-FILM 3(3,1) Sound Design II: FIL 4212C CAH-FILM 3(2,4) Advanced aspects of sound mixing and sound editing using advanced protocols and digital format. Occasional. FIL 4223 CAH-FILM 3(3,0) Design for Film: PR: Film major, FIL 3201C, FIL 4202C. Analysis of visual structure of film. Specific problems in art direction. Fall. FIL 4228 CAH-FILM 3(3,0) Directing III: PR: Film major, FIL 2200 and FIL 4208C. Advanced processes and techniques of directing. Spring. M&S fee: $45.00 FIL 4262C CAH-FILM 4(3,2) Special Problems in Film Design: A series of exercises in craft, techniques, and design for film production, including animation. Odd Spring. M&S fee: $20.00 FIL 4280 CAH-DIG 3(3,0) Animated Film-History for non film majors: PR: FIL 3410. Evolution of animation since World War II. Occasional. FIL 4284C CAH-FILM 3(3,1) Non-Linear Editing: PR: Film major and FIL 2201C. Provide basic working knowledge of AVID editing system, to edit assigned projects, give basic understanding of editorial styles and techniques in film storytelling. Occasional. M&S fee: $45.00 FIL 4288C CAH-ART 3(2,4) Advanced Animation: PR: Animation majors only, FIL 3286C, FIL 3287C, and a satisfactory portfolio review or C.I. Advanced 3D modeling and animation techniques. Working in small production teams, students will create short animated segments using a high-end 3D animation system. May be repeated for credit. Fall, Odd Spring. M&S fee: $35.00 FIL 4289C CAH-ART 3(3,3) Animation Workshop: PR: Animation majors only, FIL 3286C, FIL 3287C, FIL 4288C, and a satisfactory portfolio review or C.I. A production level course in computer animation that emphasizes all phases of the commercial production process, including storyboard, budgets, client relations, and post-production. May be repeated for credit. Fall, Spring. M&S fee: $35.00 FIL 4294C CAH-FILM 3(3,2) Editing II: PR: Film major and FIL 2274C. Theory, techniques and practices in picture editing. Fall. M&S fee: $45.00 FIL 4301C CAH-FILM 3(1,3) Documentary Workshop I: PR: FIL 3304C. Socially significant documentary projects for community groups, heritage organizations, non-profit agencies using film, video and digital media. Fall. FIL 4302C CAH-FILM 3(3,3) Documentary Workshop II: PR: FIL 4301C. Advanced documentary projects for community groups, heritage organizations, non-profit agencies and NGOs using film, video and digital media. Spring. FIL 4411 CAH-FILM 3(3,0) History of Animated Films II: PR: FIL 3410, and Cinema Studies, Art, Animation or Digital Media major. Growth and diversification of American and international animation since 1945. Spring. FIL 4506C CAH-FILM 3(2,2) Genre Writing: PR: Film major, FIL 3503C. Advanced screenwriting practice in selected genres, including comedy, humor, western, crime, etc. Occasional. FIL 4564 CAH-FILM 3(3,0) African Cinema: PR: FIL 3503C, FIL 3504C. Aesthetics, theory and practice of filmmaking in the African Diaspora. Occasional. FIL 4574 CAH-FILM 3(3,0) Images and Text in Context: PR: FIL 2400 or C.I. Moving images, the still image, and text in their cultural contexts. Occasional. FIL 4602 CAH-FILM 3(3,0) Film Business: PR: Film major, FIL 4207, FIL 4208C. This is a seminar course taught by a professional in the film industry which deals with issues relating to the organization and production of motion pictures. Spring. FIL 4604 CAH-FILM 3(3,0) The Film Producer: PR: Film major or Cinema Studies major, and FIL 4288C. The role of the producer is examined in the context of theatrical film. Spring. FIL 4607 CAH-FILM 3(3,0) Film Production Management: PR: Film major, FIL 3201C. Production, budgeting, script breakdown, construction of production boards, scheduling, location scouting, and crew procurement. Spring. FIL 5165 CAH-FILM 3(3,0) Visual Storytelling: PR: Admission to Film and Digital Media master’s program or C.I. Traditional forms of visual storytelling ranging from storyboard to classic structural paradigms for feature film scripts. Fall. FIL 5609 CAH-FILM 3(3,0) Film and Internet Business: PR: Graduate status or senior standing or C.I. Survey of the business of financing and distributing films. Explores various, including feature films, short films, television documents and the Internet. Fall. FIL 5800 CAH-FILM 3(3,0) Research Methods in Film and Digital Media: PR: Admission to Film and Digital Media graduate program or C.I. Research methodology for the study and production of Film and New Media. Spring. FIL 5810 CAH-DIG 3(2,4) Transmedia Story Creation: PR: Admission to Film and Digital Media master’s program or C.I. Repurposing of traditional stories: creation of authentic environments and the emergence of new authoring scenarios. Fall. FIL 5853 CAH-FILM 3(3,0) Cinematic Forms: PR: Graduate standing in Film and Digital Media or C.I. Evolution of cinematic form through the works of key directors and theorists. Spring. FIN 2104 BA-FIN 3(3,0) Personal Finance and Investments: PR: Open to all students (majors, minors, and non-majors). An overview of personal and family financial planning. Topics include housing, investments, insurance, retirement planning, estate planning, financial services, consumer credit, and tax planning. Fall, Spring. FIN 3303 BA-FIN 3(3,0) Financial Markets: PR: FIN 3403; open to majors or minors which require this course. The role of short and long-term financial markets and financial institutions in capital formation and allocation. Theories and mathematics of interest rates. Fall, Spring. FIN 3403 BA-FIN 3(3,0) Business Finance: PR: Junior standing and business major or minor, ACG 2011, ACG 2017, ECO 2013 and ECO 2019. With the balance sheet as a reference point, this course provides an introduction and overview of the acquisition, financing, and management of business assets. Fall, Spring. FIN 3403H BA-FIN 3(3,0) Business Finance - Honors: PR: Finance major, ACG 2011, ACG 2017, ECO 2013 and ECO 2019. Open to University honors students and other students participating in the honors program. Same as FIN 3403 with honors level content. Occasional. FIN 3414 BA-FIN 3(2,0) Intermediate Corporate Finance: PR: FIN 3403; open to majors or minors which require this course. In-depth study of the principles of corporate finance. Investment, financing, and capital decisions are examined. Fall, Spring. FIN 3470 BA-FIN 3(3,0) Financial Statement Analysis: PR: FIN 3403. Understanding and interpreting financial statement data for business decisions. Occasional. FIN 3504 BA-FIN 3(3,0) Investment Analysis: PR: FIN 3403; open to majors or minors which require this course. A survey of investments, including security markets, investment vehicles, and environments. Principles of asset valuation in efficient markets. Fall, Spring.
FIN 4313 BA-FIN 3(3,0) Management of Financial Institutions: PR: FIN 3303, 3403; open to majors or minors which require this course. Analysis of management policies of financial institutions, including assets liability, and capital management. The economics and regulatory influence on competition is considered. Occasional.

FIN 4324 BA-FIN 3(3,0) Commercial Bank Management: PR: FIN 3303; open to majors or minors which require this course. Analysis of the intersections of commercial banking policies and an analysis of current approaches to managing specific bank products. Fall.

FIN 4424 BA-FIN 3(3,0) Advanced Topics in Financial Management: PR: FIN 3414; open to majors or minors which require this course. Advanced study in financial management. Topics include capital budgeting, financial structure, and capital decisions. Case studies used extensively. Occasional.

FIN 4453 BA-FIN 3(3,0) Financial Models: PR: FIN 3403, FIN 3414, and FIN 3504; open to majors or minors which require this course. Rigorous coverage of advanced portfolio management topics, including those models suitable for representation and solutions on computers. Fall, Spring.

FIN 4514 BA-FIN 3(3,0) Portfolio Analysis and Management: PR: FIN 3403, FIN 3303 and FIN 3504; open to majors or minors which require this course. Portfolio and capital market theory in the determination of rational investment policies. Risk analysis, portfolio analysis, and evaluation techniques. Fall, Spring.

FIN 4521C BA-FIN 4(3,1) Applied Portfolio Management 1: PR: Finance major, FIN 3403, FIN 3504, and C.I. For UCF Student Managed Portfolio program participants. Provides detailed, rigorous analyses of Equity portfolio management topics, including risk/return, valuation, forecasting, portfolio construction, and performance appraisal. Occasional.

FIN 4522C BA-FIN 4(3,1) Applied Portfolio Management 2: PR: Finance major, FIN 4521C, and C.I. For UCF Student Managed Portfolio program participants. Rigorous coverage of advanced portfolio management topics, including uses of derivatives, tax issues, and style investing. Occasional.

FIN 4533 BA-FIN 3(3,0) Financial Derivatives: PR: FIN 3403, FIN 3303 and FIN 3504; open to majors or minors which require this course. Options, futures, forwards, and other derivative contracts. Investments traded in these markets are examined. Pricing and hedging are considered. Fall, Spring.

FIN 4604 BA-FIN 3(3,0) International Financial Management: PR: FIN 3403; open to majors or minors which require this course. Analysis of the foreign financial methods and investment, currency futures market, capital budgeting, cash management, examination of Eurocurrency market and international bond markets. Fall, Spring.

FIN 4730 BA-FIN 3(3,0) Senior Financial Consulting II: PR: Finance major, FIN 3403, FIN 3303, CR: FIN 4314, FIN 4453. Project management in a collaborative, interdisciplinary team environment. Incorporates financial problem solving, design and consulting in projects for major corporations. Part 1 of a two course sequence. Students must register for both semesters. Occasional.

FIN 4731 BA-FIN 3(3,0) Senior Financial Consulting II: PR: Finance major, FIN 4730. Project management in a collaborative, interdisciplinary team environment. Incorporates financial problem solving, design, and consulting in projects for major corporations. Part 2 of two semester course sequence. Students must register for both semesters. Occasional.

FIN 4941 BA-FIN 3(3,0) Finance Internship: PR: Finance major with at least 6 hours of completed coursework in finance, minimum overall GPA of 2.75 and consent of department chair. Supervised finance work experience in a pre-approved sponsoring organization. See department for information and application. Graded S/U. Fall, Spring.

FIN 5405 BA-FIN 3(3,0) Financial Concepts: PR: Acceptance into the graduate program, ACG 5005 and ECO 5005, or equivalents. Effects of financial decisions upon the firm, interrelationships of these effects and alternatives available to financial managers in making these financial decisions. Occasional.

FIN 5407 BA-FIN 1.5(1.5) Financial Foundations: PR: Finance standing or C.I. Effects of financial decisions upon the firm, interrelationships of these effects and alternatives available to financial managers in making these financial decisions. Occasional.

FLE 3160 ED-TLP 3(3,0) Education and Culture/Language Diversity: PR: Admission to major, overall 2.5 GPA, 3.0 GPA in major, and C.I. A cross-cultural field experience which includes cultural and language immersion. Theoretical and applied knowledge of culture and language diversity. Occasional.

FLE 4290 ED-TLP 2(2,0) Technology in the Foreign Language Classroom: PR: EME 2040, EDG 4323. Applications of technology in the foreign language classroom including uses of the Web, e-mail, chat, electronic portfolios, electronic curriculum planning tools, and software. May be repeated for credit. Occasional.

FLE 4314 ED-TLP 3(3,0) Foreign Language Teaching in Elementary Schools: Methods of planning and teaching foreign languages in the elementary school. The emphasis is on teaching communicatively and on integrating culture in the K-8 classroom. Occasional.

FLE 4333 ED-TLP 3(3,0) Foreign Language Teaching in the Secondary School: PR: EDG 4323, proficiency in the target language and English. Methods of teaching foreign languages at the secondary level within a communicative framework. Current instructional techniques in listening, speaking, reading, and writing skills, testing, error correction. May be repeated for credit. Occasional.

FLE 5355 ED-TLP 3(3,0) Foreign Language Methods at the Elementary Level: PR: C.I. or FLE 5333 or FLE 5870, EDG 4323 or EDG 6226, and fluency in target language and English. Methods of planning and teaching foreign language at the elementary level. The emphasis is on teaching communicatively and on integrating culture in the K-8 classroom. May be repeated for credit. Occasional.

FLE 5870 CAH-LANG 3(3,0) Methods of Teaching Foreign Languages: PR: Graduate status or senior standing or C.I. This course introduces prominent theories and applied research in the field of second language acquisition. It also offers guidance in the practical matters of teaching lower division language courses at university and community college levels. Occasional.

FLE 5875 CAH-LANG 3(3,0) Computer Application in Teaching Foreign Languages: PR: Graduate status or senior standing or C.I. Survey, analysis, and evaluation of computer software and Internet materials for teaching foreign languages. Occasional.

FOL 3730 CAH-LANG 3(3,0) Romance Philology: The study of the major Romance Languages and their origins as they developed from Classical and Medieval Latin to their linguistic influences such as Aramaic and Provençal. Occasional.

FRE 1005 CAH-MUSIC 1(1,0) French Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, French songs, and opera libretti. Odd Fall.


FRE 1121 CAH-LANG 4(4,1) Elementary French Language and Civilization II: PR: FRE 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level. Fall, Spring.

FRE 2200 CAH-LANG 3(3,1) Intermediate French Language and Civilization I: PR: FRE 2200 or equivalent. Continuation of FRE 2200 with emphasis on French civilization. Fall, Spring.

FRE 2240 CAH-LANG 3(3,0) Intensive French Conversation: PR: One year of French or equivalent. Practical use of the language, leading toward fluency and correctness in speaking. Occasional.


FRE 3300 CAH-LANG 3(3,0) French Grammar: PR: FRE 2201 or equivalent. An in-depth review of the structures of French for students who intend to take French literature courses. Fall.

FRE 3410 CAH-LANG 3(3,0) Advanced Oral French Abroad: PR: FRE 2200, FRE 2201 or equivalent. Designed for students participating in the Study Abroad Program in France. Students will be immersed throughout the term speaking French. May be repeated for credit. Occasional.

FRE 3420 CAH-LANG 3(3,0) French Composition: PR: FRE 2201 or equivalent. Development of skills in composition. Fall.

FRE 3423 CAH-LANG 3(3,0) Advanced French Grammar Abroad: PR: FRE 2200, FRE 2201 or equivalent. Students will be immersed throughout the term applying grammatical concepts as they relate to written expression in order to enhance oral expression. May be repeated for credit. Occasional.
UCF Courses and Descriptions

FRE 3440 CAH-LANG 3(3,0)

FRE 3441 CAH-LANG 3(3,0)

FRE 3760 CAH-LANG 3(3,0)
Advanced French Oral Communication: PR: FRE 2201 or equivalent. Vocabulary building with systematic training in diction and location. Speeches and oral presentations as well as production and delivery of real-life dialogues. Spring.

FRE 3780 CAH-LANG 3(3,0)
French Phonetics and Diction: French phonology, with emphasis on phonic groupings. Spring.

FRE 3954 CAH-LANG 6(6,0)
Study Abroad in the Caribbean: PR: FRE 2201 or equivalent. Travel through Caribbean islands, studying the diversity within the Creole cultures. May be repeated for credit. Occasional.

FRE 4421 CAH-LANG 3(3,0)
Advanced French Conversation: PR: FRE 3760. Advanced conversation on directed topics from various disciplines; literature, art, psychology, philosophy, music, business, and the sciences. Fall.

FRE 4422 CAH-LANG 3(3,0)
Advanced French Composition: PR: FRE 3420. Readings and written imitations of modern literary styles in the form of themes, sketches, poems, and original stories. Spring.

FRE 4471 CAH-LANG 6(6,0)
Advanced French Cultural Studies Abroad: PR: FRE 2201 or equivalent, or C.I. Students will develop strong conversational skills at the third year level while studying French culture abroad. May be repeated for credit. Occasional.

FRE 4500 CAH-LANG 3(3,0)

FRE 4503 CAH-LANG 2(2,0)
Quebecois Civilization: PR: 2 years of college level French or equivalent. An introduction to the main epochs and events in the history of the French civilization in North America with particular emphasis on Quebec. Occasional.

FRE 4782 CAH-LANG 2(2,0)
Advanced French Phonetics and Diction: PR: 2 years of college level French or equivalent. Intensive exercises in French phonetics and diction with both prose and poetry with particular emphasis on difficulties for speakers of English. Occasional.

FRT 4552 CAH-LANG 3(3,0)
Structural Analysis of Beckett's Watt: PR: ENC 1102. An intense study of textual criticism and explications and linguistic analysis of literature with the primary focus on the novel. Course will be taught in English. Occasional.

FRW 3100 CAH-LANG 3(3,0)
Survey of French Literature I: PR: FRE 2201 or equivalent. Main literary currents and works from the Middle Ages through the 18th century. Fall.

FRW 3101 CAH-LANG 3(3,0)
Survey of French Literature II: PR: FRE 2201 or equivalent. Main literary currents and works of the 19th and 20th centuries. Spring.

FRW 3370 CAH-LANG 3(3,0)
Short Stories of 18th, 19th and 20th Centuries: PR: FRE 2201 or equivalent. Selected readings designed to increase reading speed and develop analytical abilities. Authors include: Voltaire, Maupassant, Flaubert, Camus, and others. Occasional.

FRW 3740 CAH-LANG 3(3,0)

FRW 3752 CAH-LANG 3(3,0)
French Caribbean Literature: PR: FRE 2201 or equivalent. Literature of the French speaking Caribbean from colonial times to the present, in French. Occasional.

FRW 3760 CAH-LANG 3(3,0)

FRW 3770 CAH-LANG 3(3,0)
Francophone Literature: PR: FRE 2201. The literature of the Francophone world. Students will read, analyze and discuss literary works written in French. Even Spring.

FRW 4281 CAH-LANG 3(3,0)
20th Century French Novels: PR: FRW 3100 or FRW 3101 or equivalent. Contemporary French Novel. Will focus on post-war authors, both traditional and avant-garde, such as Bazin, Beckett, Butor, Camus, Mauclair, Malraux and Sarrate. Occasional.

FRW 4310 CAH-LANG 3(3,0)

FRW 4324 CAH-LANG 3(3,0)
20th Century French Drama: PR: FRW 3100 or FRW 3101 or equivalent, or C.I. Concentration on traditional and avant-garde theater after WWII, such as the works of Beckett, Camus, Claudel, Ciaudou, Ionesco, and Sarte; different literary approaches will also be used. Occasional.

FRW 4440 CAH-LANG 3(3,0)

FRW 4532 CAH-LANG 3(3,0)

FRW 4552 CAH-LANG 3(3,0)

FRW 4820 CAH-LANG 3(3,0)
Stylistics: PR: FRE 3420 or equivalent. An intense study of textual criticism. An examination of the relationship between language and literature; explications and linguistic analysis of literary texts. Occasional.

FSS 2221C RCHM-HOS 3(3,1)
Quantity Food Preparation: Basic principles of food and beverage preparation, service, and menu development. Fall, Spring. M&S fee: $45.00

FSS 3008 RCHM-HOS 3(3,0)
Culture and Cuisine: PR: FSS 2221C and HFT 3261. The major historical and geographical developments that have affected the creation of the cuisines of the world. Spring.

FSS 3124 RCHM-HOS 3(3,0)
Supply and Procurement Management: PR: HFT 1000 and junior standing or C.I. The purchasing procedures, specifications, and controls of food and related products in the hospitality industry. Occasional. M&S fee: $45.00

FSS 3232C RCHM-HOS 3(1,3)
Intermediate Techniques of Food Production: PR: HFT 4250C. An advanced food production course which provides the student the opportunity to develop skills in pantry, garde manager, garnishing, and convenience foods and services. Laboratory class. Occasional. M&S fee: $45.00

FSS 4135 RCHM-HOS 3(3,0)
Corporate Contract and Managed Services Organizations: PR: HFT 3261. The unique characteristics of managed services including contracting, commodity purchasing, pricing, and revenue management. Occasional.

FSS 4286C RCHM-HOS 3(3,1)
Catering and Banquet Organization: PR: FSS 2221C and junior standing or C.I. Methods and procedures for successful on and off premise catering functions. Emphasis on food and beverage preparation, menu planning, service and sales techniques. Laboratory class. Occasional. M&S fee: $45.00

GEA 4206 ECS-CEE 3(3,0)

GEB 1091C BA-BUS 2(1,1)
Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Business providing a foundation of leadership, scholarship, and service regarding disciplines in the college. Fall, Spring.

GEB 2011 BA-MAN 3(3,0)
Management: PR: Junior standing. For non-business majors only. The interdisciplinary application of the management functions of planning, organizing, leading, and controlling. For Non-Business Major ONLY. Occasional.

GEB 2350 BA-MAR 3(3,0)
Foundations of Business: Introduction to the U.S. business system and the role it plays in a global economy. Fall.

GEB 3031 BA-MAN 6(6,0)
The Cornerstone Course: PR: Junior standing and business major or minor. ACG 2071, ECO 2013, ECO 2023, and CGS 2100C. An orientation to opportunities and challenges facing managers in contemporary business organizations. Introduces competencies of team work, communication, creative thinking, and adapting to change. Fall, Spring.

GEB 3113 BA-MAN 3(3,0)
How to Start a Business: PR: Sophomore Standing, ECO 2013. Provides background and tools necessary to understand and participate in the entrepreneurial process within a large company, new venture, or growing a small business. Occasional.

GEB 3356 BA-FIN 3(3,0)
Introduction to International Business: PR: Junior standing and business major or minor. ECO 2013, ECO 2023, and ACG 2071. Understanding the interdependence of globalized world economy and similarities and dissimilarities between domestic and international business domains. Fall, Spring.
GEB 3356H BA-FIN 3(3.0) Introduction to International Business - Honors: PR: Junior standing and business major or minor, permission of Honors, ECO 2013, ECO 2023, AGB 2071. Understanding the interdependence of globalized world economy and similarities between domestic and international business domain. Occasional.


GEB 3815 BA-MAN 3(3.0) Employee Training for Non-Business Majors: PR: MAN 3025. Employee training needs and practices as performed by supervisors and managers under the direction of organizational specialists. Designed for non-business majors. Occasional.

GEB 4111 BA-MAN 3(3.0) New Venture Finance: PR: FIN 3403. Provides hands-on processes for developing financial information necessary such as budgets and pro forma financial statements to start up a new venture. Odd Fall, Even Spring.

GEB 4117 BA-MAN 3(3.0) Business Plan Preparation: PR: MAN 4802. Develop a new venture plan evolving from an original concept through a process that incorporates all the elements of a professionally written business proposal. Fall, Spring.

GEB 4358 BA-FIN 3(3.0) International Negotiations and Transactions: PR: Finance major, Junior standing and admission to CBA. Focuses on providing an understanding of the concepts and skills required for international negotiations and transactions. Occasional.

GEB 4361 BA-FIN 3(3.0) Business in the International Environment: PR: Finance major, FIN 3403, MAR 3023, MAN 3025. Provides an overall understanding of the nature, magnitude, and importance of the international business sector. Occasional.

GEB 4363 BA-FIN 3(3.0) Export and Import Management: PR: Finance major, Junior standing and admission to CBA. Focuses on the management of export/import business and provides students with knowledge about international trade. Occasional.

GEB 5941 BA-BUS 1.5(1.5) Professional Business Practicum: PR: Acceptance in the graduate program. The practicum is to provide a professional business work experience for students entering the MBA program without such experience. Occasional.

GEO 1200 ECS-CEE 3(3.0) Physical Geography: Basic physical elements of geography, including climate, landforms, soils, natural vegetation, minerals, and their integrated patterns of world distribution. Fall, Spring.

GEO 2370 ECS-CEE 3(3.0) Resources Geography: Analysis of basic principles and problems associated with development, use, conservation, and management of natural resources, with special emphasis on the United States. Fall, Spring.

GEO 3471 COS-POLS 3(3.0) World Political Geography: Analysis of factors which affect power relations among nations, including area, location, political styles, ethnic divisions, and the politics of energy. Fall, Spring.

GEO 1005 CAH-MUSIC 1(0,1) German Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, German songs, and opera libretto. Odd Spring.

GEO 1120 CAH-LANG 4(4,1) Elementary German Language and Civilization I: Introduces the student to German culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Fall, Spring.

GEO 1120H CAH-LANG 4(4,1) Honors Elementary German Language and Civilization I: PR: Permission of Honors. Introduces the student to German culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Honors level content. Occasional.

GEO 1121 CAH-LANG 4(4,1) Elementary German Language and Civilization II: PR: GEO 1120 or equivalent. Continuation of GEO 1120. Fall, Spring.

GEO 1121H CAH-LANG 4(4,1) Honors Elementary German Language and Civilization II: PR: GEO 1120H or equivalent and permission of Honors. Continuation of GEO 1120H, with honors-level content. Occasional.

GEO 2200 CAH-LANG 3(3,1) Intermediate German Language and Civilization I: PR: GEO 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level. Fall, Spring.

GEO 2201 CAH-LANG 3(3,1) Intermediate German Language and Civilization II: PR: GEO 2200 or equivalent. Continuation of GEO 2200 with emphasis on German civilization. Spring.

GEO 2210 CAH-LANG 3(3,0) Intensive German Conversation: PR: GEO 1121 or C.I. Practical use of the language, leading toward fluency and correctness in speaking. Occasional.

GEO 2240 CAH-LANG 3(3,0) German Conversation: PR: GEO 2201 or equivalent. Development of skills in conversation and comprehension through practice. Occasional.

GEO 2270 CAH-LANG 6(6,0) Intermediate German Study Abroad: PR: GEO 1121 or equivalent. Intermediate German language and culture taught in the native environment. Occasional.

GEO 2271 CAH-LANG 2(2,0) Modern German Civilization Abroad I: PR: One year of College-level German. Key elements of German life: its artistic, intellectual, scientific, and spiritual contributions to the world via guest lecturers, readings, films, and other media. In German. Occasional.

GEO 3102 CAH-LANG 3(3,0) Germany - Past to Present: PR: GEO 3760 or GEO 2201 or equivalent. Cultural development that shaped modern Germany. Students will read and discuss selected texts from different literary periods and view the influences they had on culture and daily life. Course conducted in German. Occasional.

GEO 3272 CAH-LANG 2(2,0) Modern German Civilization Abroad II: PR: GEO 2201 or equivalent. Key elements of German life: its artistic, intellectual, scientific, and spiritual contributions to the world via guest lecturers, readings, films, and other media. In German. Occasional.

GEO 3420 CAH-LANG 3(3,0) Intensive German Composition: PR: GEO 2201 or equivalent. Development of skills in composition. Occasional.

GEO 3440 CAH-LANG 3(3,0) Business German I: PR: GEO 2200. Introduction to German business language and practices. Occasional.

GEO 3441 CAH-LANG 3(3,0) Business German II: PR: GEO 3440. Continuation of Business German I. Occasional.

GEO 3470 CAH-LANG 6(6,0) Advanced German Study Abroad: PR: GEO 2201. Advanced German grammar in the context of conversation and production taught in the native environment. Occasional.

GEO 3760 CAH-LANG 3(3,0) Advanced German Oral Communication: PR: GEO 2201 or equivalent. Vocabulary building with systematic training in dictation and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues. Even Fall.

GEO 3780 CAH-LANG 3(3,0) German Phonetics and Diction: PR: GEO 2201. The fundamental principles of German pronunciation. Occasional.

GEO 4422 CAH-LANG 3(3,0) Advanced German Grammar: PR: GEO 3760, or any other 3000 level German course. An accelerated grammar course designated for advanced students of the German language. Occasional.

GEO 4510 CAH-LANG 3(3,0) Life and Culture in Nazi Germany: PR: C.I. Confrontation with the development of national socialist ideas and their realization in everyday life and culture. Given in German. Occasional.

GEO 4520 CAH-LANG 3(3,0) Modern Germany: PR: Given in German. An introduction to the history of postwar Germany from the two Germanies to unification and today's Germany. Occasional.

GEW 3100 CAH-LANG 3(3,0) Survey of German Literature I: PR: GEO 2201 or equivalent. Main literary currents and works from the Middle Ages through 15th Century Romanticism. Occasional.

GEW 3101 CAH-LANG 3(3,0) Survey of German Literature II: PR: GEO 2201 or equivalent. Main literary currents and works from 19th Century Realism to the present. Occasional.

GEW 3370 CAH-LANG 3(3,0) Short Story: PR: GEO 2201 or equivalent. German short prose works of the 19th and 20th centuries. Occasional.

GEW 3480 CAH-LANG 3(3,0) German Post-War Literature: PR: GEO 2201. This course examines the works of German, Austrian and Swiss writers after World War II. Occasional.
C.I. Interpretation and application of remote sensor imagery

German romanticism. Attention to their relationship to both German classicism and texts of Goethe and Schiller are examined, with particular

356

The principles underlying the generation and display of graphical pictures by computer. Topics include graphical software packages and graphics systems. With Honors consent. Occasional.

2111C CAH-ART 3(2,4) Graphic Design I: PR: ART 2201. Basic principles, concepts, and techniques in graphic design and art for visual publication. Occasional. M&S fee: $15.00

2140C CAH-ART 3(2,4) Computer Graphic Design: PR: Acceptance in Graphic Design Concentration, GRA 3000C, ART 2201C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Problems involving the use of computer graphic systems for visual publication. Occasional. M&S fee: $15.00

2190C CAH-ART 3(2,4) Design in Advertising: PR: ART 2201C. Principles and techniques. Not open to art majors specializing in graphic design. Intended for visual arts education majors and general university elective. Occasional. M&S fee: $5.00

3100C CAH-ART 3(2,4) Intermediate Graphic Design I: PR: Acceptance in Graphic Design Specialization and ART 2201C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Methods related to studio projects in graphic design. Fall. M&S fee: $15.00

3112C CAH-ART 3(2,4) Intermediate Graphic Design II: PR: Acceptance in Graphic Design Specialization, ART 2201C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Further development of studio techniques and problems in graphic design with emphasis on digital prepress. Spring. M&S fee: $43.50

3113C CAH-ART 3(2,4) Type & Design: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. A survey of type, calligraphy and letter forms and their appropriate use as subject matter for graphic design and publication. Fall, Odd Spring. M&S fee: $15.00


3801C CAH-ART 3(2,4) Intermediate Computer Graphic Design: PR: Acceptance in Graphic Design specialization and ART 2201C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. The use of computer graphic systems for electronic publication. Fall.

4119C CAH-ART 3(2,4) Packaging Design and Display Systems: PR: Acceptance in Graphic Design Concentration and GRA 3100C. The visual concepts of packaging design and display systems. Exploration of materials, structures, function and semantic aspects of the packaging industry. Occasional.

4154C CAH-ART 3(2,4) Advanced Illustration: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, GRA 3151C, and a satisfactory portfolio review or C.I. Illustration problems involving the use of advanced level techniques in illustration media. May be repeated for credit. Occasional. M&S fee: $45.00

GRA 2101H CAH-ART 3(2,4) Honors Introduction to Computer Art: PR: ART 2201 and Consent of Honors. The principles underlying the generation and display of graphical pictures by computer. Topics include graphical software packages and graphics systems. With Honors consent. Occasional.

GRA 4196C CAH-ART 3(2,4) Advanced Graphic Design: PR: Acceptance in Graphic Design Specialization, ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3151C or ART 3332C, GRA 4154C or ART 4302C, and a satisfactory portfolio review, or C.I. Practical studio problems, with emphasis on organization of visual design elements. Fall. M&S fee: $43.50

GRA 4197C CAH-ART 3(2,4) Special Problems in Graphic Design: PR: Acceptance in Graphic Design Specialization and ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3801C, GRA 4196C, GRA 3151C or ART 3332C, GRA 4154C or ART 4302C, and a satisfactory portfolio review, or C.I. Advanced problems in visual design and reproduction. May be repeated for credit. Spring. M&S fee: $15.00

GRA 4802C CAH-ART 3(2,4) Advanced Computer Graphic Design: PR: Acceptance in Graphic Design Specialization and ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3801C, GRA 4196C, GRA 3151C or ART 3332C, GRA 4154C or ART 4302C, and a satisfactory portfolio review or C.I. Problems involving the use of advanced computer graphic systems for electronic publication. Odd Fall. M&S fee: $15.00

GRE 1120H CAH-LANG 4(4,0) Elementary Greek Language and Civilization I: PR: Permission of Honors. Introduces students to Classical Greek literature and civilization through the study of grammar and syntax and extensive readings of Greek texts. Occasional.


GRE 2220H CAH-LANG 4(4,0) Introduction to Greek Literature: PR: GRE 1121H and permission of Honors. Readings in selected original Greek texts, e.g., Plato’s apology. May be repeated for credit. Occasional.

HAI 1120 CAH-LANG 4(4,0) Elementary Haitian Language and Culture I: Introduction to Haitian culture through the major language skills; listening, speaking, reading and writing. Occasional.


HBR 1120 CAH-JUD 4(4,0) Elementary Modern Hebrew Language and Culture I: Designed to initiate the student to the major language skills; listening, speaking, reading and writing, as well as to constitute an introduction to Israeli culture. Fall.

HBR 1121 CAH-JUD 4(4,0) Elementary Modern Hebrew Language and Culture II: PR: HBR 1120 or equivalent. Continuation of HBR 1120. Spring.

HBR 2200 CAH-JUD 3(3,0) Intermediate Modern Hebrew II: PR: HBR 1121 or equivalent. Designed to continue the study of Modern Hebrew; increase proficiency in conversation, reading and writing skills, and further expose students to Israeli culture. Occasional.
HBR 2201 CAH-JUD 3(3,0) Intermediate Modern Hebrew II: PR: HBR 2200. Further development of modern Hebrew language skills in listening, speaking, reading, and writing. Occasional.


HBR 3410 CAH-JUD 3(3,0) Conversational Israeli Hebrew: PR: HBR 1120, HBR 1121 or equivalent. C.I. Study and practice of contemporary conversational Israeli Hebrew. Occasional.

HFT 1000 RCHM-TEA 3(3,0) Introduction to the Hospitality and Tourism Industry: An orientation to the hotel, restaurant, and travel industry, and its history, structure, and operating procedures. Fall, Spring.

HFT 1350 RCHM-TEA 3(3,0) Career & Promotional Development in Golf: PR: HFT 1357. The developmental sequence of lifelong programs for juniors, women, and seniors. in the golf industry. Spring.

HFT 1356 RCHM-TEA 3(3,0) Concepts and Practices of Golf Associations: PR: Admission to Professional Golf Management Program; CR HFT 1000, Philosophies and ideals of the Professional Golfers Association of America and the importance of the rules of golf as related to rules decisions. Fall.

HFT 1357 RCHM-TEA 3(3,0) Golf Event Operations: PR: HFT 1359. Develop, plan, and organize golf tournaments of all types. Event Spring.

HFT 2220 RCHM-TEA 3(3,0) Hospitality Human Resources Management: Application of strategic principles of human resources to the hospitality tourism setting. Fall, Spring.

HFT 2254 RCHM-HOS 3(3,0) Lodging Operations: PR: HFT 1000. Basic principles of operating a lodging facility including accounting, housekeeping, engineering, front desk, and guest services. Fall, Spring.


HFT 2500 RCHM-TEA 3(3,0) Hospitality and Tourism Marketing: PR: HFT 1000. The application of marketing concepts to the Hospitality and Tourism Industry. Special emphasis on marketing planning and strategic marketing. Fall. Spring.

HFT 2750 RCHM-TEA 3(3,0) The Event Industry: Overview of meetings, conventions, special events and exhibitions including the roles of organizations and people involved in the businesses that comprise this industry. Fall, Spring.

HFT 3261 RCHM-HOS 3(3,0) Restaurant Management: PR: HFT 1000 and junior standing or C.I. Discussion of the topics integral for the successful management of restaurant and food service organizations. Fall, Spring.

HFT 3273 RCHM-HOS 3(3,0) Principles of Resort Timesharing: PR: HFT 1000 and junior standing or C.I. Principles of resort timeshare operations and ownership. Fall, Spring.

HFT 3285 RCHM-HOS 3(3,0) International Restaurant Corporation Management: PR: HFT 3261. The specific principles of managing a restaurant corporation in the international foodservice marketplace. Occasional.

HFT 3313 RCHM-HOS 3(3,0) Hospitality Physical Plant Management: PR: Junior standing. Analysis of operational problems related to the physical plant and structure of enterprises in the hospitality industry. Spring.

HFT 3353 RCHM-TEA 3(3,0) Golf Planning & Operations I: PR: HFT 2359. Customer relations concepts, an effective golf instruction program, and characteristics of effective merchandising & inventory procedures. Occasional.

HFT 3355 RCHM-TEA 3(3,0) Golf Planning & Operations II: PR: HFT 3353. Merchandising and inventory control, golf swing philosophy and leadership models. Occasional.

HFT 3374 RCHM-TEA 3(3,0) Multi Media Applications in Exhibitions: PR: HFT 1000, HFT 2750, or C.I. The management of the audio and visual process of a large exhibition. Occasional.

HFT 3431 RCHM-HOS 3(3,0) Hospitality Industry Managerial Accounting: PR: HFT 2403 and junior standing or C.I. Presentation, interpretation, and analysis of internal and external hospitality industry financial reports affecting management decisions using hospitality industry systems of accounting. Fall, Spring.

HFT 3443 RCHM-TEA 3(3,0) Event Technology: PR: HFT 1000 and HFT 2750; or C.I. Use of technology in the event industry to solidify processes and help people be more productive. Covers types of technology for different event processes. Occasional.

HFT 3444 RCHM-HOS 3(3,0) Hospitality Information Systems: PR: CGS 2100C, HFT 2254, and HFT 3261; or C.I. Focuses on managing decisions from the guest’s point of view in the hospitality industry. Fall. Spring.


HFT 3515 RCHM-HOS 3(3,0) Reservations Sales & Marketing: PR: HFT 1000, HFT 2500 or C.I. Provides insight to all aspects of planning, performing and measuring room sales activities. Focus will be to manage all distribution channels to maximize profitability. Odd Fall.

HFT 3540 RCHM-HOS 3(3,0) Guest Services Management I: PR: Junior standing or C.I. The study of making decisions from the guest’s point of view in the hospitality industry. Fall, Spring.


HFT 3600 RCHM-HOS 3(3,0) Legal Environment in the Hospitality and Tourism Industry: PR: C.I. Principles of law as related to the Hospitality/Tourism Industry. Fall, Spring.

HFT 3610 RCHM-HOS 3(3,0) Law and Restaurant Management: PR: HFT 3500 and HFT 3261. Emphasis on regulatory, case and administrative law. Compliance, prevention, and remedial actions are stressed. Occasional.

HFT 3654 RCHM-HOS 3(3,0) Franchising in the Restaurant Industry: PR: Restaurant Management Core or C.I. Addresses the legal requirements for franchising, contract rates, responsibilities, size, structure, and history. Fall.

HFT 3670 RCHM-TEA 3(3,0) Hospitality and Event Risk Management: PR: HFT 1000 and HFT 2500; or C.I. Risk, crisis, and liability issues that may arise in the planning and management of special events, meetings, conventions, and exhibitions. Occasional.

HFT 3700 RCHM-TEA 3(3,0) Tourism Management: PR: HFT 1000 and junior standing or C.I. Analysis of the tourism phenomenon in contemporary societies. AN exploration of major concepts about tourism as and inter-linked industry composed of many sectors within both the private and public sectors. Fall, Spring.

HFT 3741 RCHM-TEA 3(3,0) Meeting Management: PR: HFT 4753 and HFT 4754. The process of meeting planning, from setting objectives to analyzing the success of the event. Fall, Spring.

HFT 3757 RCHM-TEA 3(3,0) Event Management: PR: HFT 1000 and junior standing or C.I. Reviews the role and scope of events in the hospitality industry, as well as the process of planning, organizing, and managing events. Fall, Spring. M&S fee: $37.00

HFT 3770 RCHM-TEA 3(3,0) Cruise Line Operations and Management: PR: HFT 1000 and junior standing or C.I. Understanding of cruise company operations and management. Shipboard organization and delivery of the cruise product to the guest. Occasional.

HFT 3784 RCHM-TEA 3(3,0) Amusement Technology: PR: HFT 1000 HFT 4755. Exploration of various technologies utilized by the leisure-based entertainment industry. Includes amusement devices, operational and IT software packages as well as ride and show systems. Spring.
UCF Courses and Descriptions

HFT 3785 RCHM-TEA 3(3,0)
Management of Gaming Enterprises: PR: Junior level standing. An in-depth study of gaming-based organizations including cruise ships, Indian reservation casinos, and others. The history and development of gaming organizations, the economics, social, and cultural impact of gaming and managerial challenges and opportunities in the industry. Occasional.

HFT 3792 RCHM-TEA 3(3,0)
Event Design and Production: PR: HFT 1000, HFT 2750, HFT 3443, and HFT 3670; or C.I. The many aspects of event production, including art, design, and staging. Provides hands on practical experience. Occasional.

HFT 3798 RCHM-TEA 3(3,0)
Fairs and Festivals: PR: HFT 1000 and HFT 2750; or C.I. Evolution of modern day exhibitions and trade shows from fairs and festivals. Occasional.

HFT 3802 RCHM-TEA 3(3,0)
Catering Management: PR: HFT 1000, HFT 2750. Catering sales and operations. Emphasis on logistics, market segments, and service. Fall, Spring. M&S fee: $45.00

HFT 3807 RCHM-HOS 3(3,0)
Multi-Unit Food Service Operations: PR: HFT 1000 and junior standing or C.I. The strategy and managerial aspects of chain restaurant management, including organization development, brand building, and industry segments. Spring.

HFT 3834 RCHM-HOS 3(3,0)
Topics in Restaurant and Foodservice Management: PR: HFT 3261 and FSS 2221C. Guest lecture series covering contemporary issues in the various segments of the foodservice industry. Odd Spring.

HFT 3868 RCHM-HOS 3(3,0)
History and Culture of Wine: PR: World History course or C.I. The role that wine has played in the history, culture, and religion of diverse civilizations. Fall, Spring.

HFT 3933 RCHM-TEA 1(1,0)

HFT 3949 RCHM-RCHM 0.5(0,1-5)
Cooperative Education: Provides paid, pre-professional work experience related to the students' major while they continue to attend school. Requires achievement of major-related learning objectives. Fall, Spring.

HFT 4250C RCHM-HOS 3(3,1)
Hospitality Operations: PR: Junior Standing or C.I. An integration of lodging and food service operations providing students with a comprehensive knowledge of these related content areas; food service lab component. Optional.

HFT 4253 RCHM-HOS 3(3,0)
Hotel Operations: PR: HFT 1000; HFT 2220; FSS 2221C; HFT 2254; HFT 2500; HFT 3600; HFT 2750; HFT 2403; HFT 3444; HFT 3540. Provides the advanced student with first-hand knowledge of the day-to-day operations of a hotel property. Reconciles conflicts between theory and practice in a real life hotel. Spring.

HFT 4255 RCHM-HOS 3(3,0)
Advanced Hotel Development: PR: HFT 4462, HFT 4473, or C.I. Hotel investment practices, risk management and other investment decision factors. Occasional.

HFT 4266 RCHM-HOS 3(3,0)
Restaurant Brand Management: PR: HFT 3261 and junior standing or C.I. Exploration of the principles of brand management for the corporate restaurant industry. Occasional.

HFT 4268 RCHM-HOS 3(3,0)
Case Studies in Restaurant Management: PR: HFT 3261 and junior standing or C.I. Application of case study methodology to advanced topics in restaurant and food service management. Fall, Spring.

HFT 4269 RCHM-HOS 3(3,0)
Case Studies in Multi-Unit Restaurant Management: PR: HFT 3261. Restaurant Management. Application of case study methodology to advanced topics in chain or multi-unit restaurant and foodservice operations. Fall.

HFT 4274 RCHM-HOS 3(3,0)
Vacation Ownership Resort Management: PR: HFT 1000, HFT 3273, HFT 4522 or C.I. Comprehensive analysis of applied theories, principles, and techniques used in the management of vacation resorts. Occasional.

HFT 4275 RCHM-HOS 3(3,0)
Development of Vacation Ownership Resorts: PR: HFT 3273 and HFT 4473 or C.I. Comprehensive analysis of applied theories, principles, and techniques used in the planning and development of vacation resorts. Occasional.

HFT 4277 RCHM-TEA 3(3,0)
Yacht, Country, And City Club Management: PR: HFT 1000 and junior standing or C.I. A study of the history, development, operation and management of yacht, country and city clubs. Emphasis will be placed on operational aspects. Fall.

HFT 4281 RCHM-HOS 3(3,0)
Restaurant Leadership Strategies and Tactics: PR: Hospitality Management Core and Restaurant Management Core or C.I. An analysis of the leadership styles of restaurant industry founders and executives. Fall, Spring.

HFT 4284 RCHM-HOS 3(3,0)
Training and Employee Performance in the Foodservice Industry: PR: HFT 2220; HFT 3540; HFT 4266; HFT 4268; HFT 4434; FSS 3124; FSS 4135. Teaching and training methodologies relative to the service positions in a restaurant. Encompasses training techniques, guest interaction, and assessment of service performance. Occasional.

HFT 4286 RCHM-HOS 3(3,0)
Hospitality Communications: PR: HFT 1000; HFT 2220; FSS 2221C, HFT 2254; HFT 2500; HFT 3600; HFT 2750; HFT 2403; HFT 3444; HFT 3540. Communication exchanges in the hospitality industry for effective presentations, conflict resolution, and report writing. Emphasis on interdepartmental dependence by managers in hospitality enterprises in the areas of reading, writing, speaking, and listening. Fall, Spring.

HFT 4294 RCHM-HOS 3(3,0)

HFT 4295 RCHM-TEA 3(3,0)
Leadership and Strategic Management in Hospitality Industry: PR: Completion of Hospitality Management Core program. Principles of strategic decision making in various hospitality and tourism organizations; lectures, class discussions, and group case analysis presentations. Fall, Spring.

HFT 4298 RCHM-TEA 3(3,0)

HFT 4343 RCHM-HOS 3(3,0)
Hospitality Facilities Planning and Design: PR: HFT 2254 and junior standing; or C.I. Principles of facility planning, layout and design for dining, kitchen, guest room, lobby, and service areas. Odd Fall.

HFT 4358 RCHM-TEA 3(3,0)

HFT 4375 RCHM-TEA 3(3,0)
Advanced Trade Show Management: PR: HFT 4754 or C.I. Trade show installation, floor management and dismantling/shipping. Pre-event logistics and on-site management of critical success factors. Occasional.

HFT 4413 RCHM-HOS 3(3,0)
Technology Applications for Hospitality Management: PR: HFT 3444. Hospitality Information Systems. Provides students with fundamental information system concepts and techniques for effective applications to strategic thinking in hospitality organizations. Odd Spring.

HFT 4425 RCHM-HOS 3(3,0)
Financial Analysis for Restaurant Managers: PR: HFT 2403, HFT 3431, and HFT 3261. Topics of unit level economics, budgeting, valuation of restaurant enterprises, ownership models, franchising finance, and securing access to capital through debt and equity markets. Occasional.

HFT 4432 RCHM-HOS 3(3,0)

HFT 4442 RCHM-HOS 3(3,0)
Vacation Ownership Reservations and Database Systems: PR: HFT 1000, HFT 3273, HFT 4522 or C.I. Techniques and strategies necessary for owner exchange, information transmittal, and financial reporting. Occasional.

HFT 4453 RCHM-HOS 3(3,0)
Food, Beverage, and Labor Cost Controls: PR: HFT 3431. Hospitality Industry Managerial Accounting. Provides students with basic fundamentals of food, beverage, and labor cost control systems in the hospitality industry. Fall, Even Spring.

HFT 4462 RCHM-HOS 3(3,0)
Hospitality Industry Finance: PR: HFT 3431 and junior standing or C.I. Working knowledge of finance concepts and theories applicable to the Hospitality Industry including evaluating management contracts, franchising, and leasing. Odd Fall, Odd Spring.

HFT 4473 RCHM-HOS 3(3,0)
Hotel Development Analysis: PR: HFT 3431 and junior standing or C.I. Review of methodological operation, financial, and marketing aspects of analyses for hotel development projects. Even Fall.

HFT 4522 RCHM-HOS 3(3,0)
Vacation Ownership Resort Sales Tactics and Strategies: PR: HFT 1000, HFT 3273 or C.I. Sales tactics and corporate strategies employed in the sales and marketing of vacation ownership properties. Occasional.

358 UNIVERSITY OF CENTRAL FLORIDA 2006-2007 Undergraduate Catalog
HFT 4532  RCHM-TEA  3(3,0)  Managing the Employee Experience in the Theme Park and Attraction Industry: PR: HFT 4755 and junior standing or C.I. Managing staffing needs, supervision, communication, legal compliance, and retention in the theme parks and attraction industry. Fall.


HFT 4645  RCHM-HOS  3(3,0)  Restaurant Real Estate, Site Selection, and Modeling: PR: Hospitality and Restaurant Management Cores or C.I. Explains the management systems for finding, evaluating, securing, and developing dynamic restaurant real estate locations. Occasional.

HFT 4717  RCHM-HOS  3(3,0)  Hospitality Operations II: PR: Junior Standing. A survey of tourism, travel agency, airline, convention and trade show operations from both the U.S. and international perspective. Occasional.

HFT 4722  RCHM-TEA  3(3,0)  Travel Agency Management: PR: Junior Standing. The trends operation management procedures and practices of travel agents. Emphasis on tools utilized in agency operations. Occasional.

HFT 4735  RCHM-TEA  3(3,0)  Tourism Geography: PR: HFT 3700 and junior standing or C.I. A seminar discussing the main geographical tourism destinations in U.S. and the World. Fall, Spring.

HFT 4736  RCHM-TEA  3(3,0)  Destination Management: PR: HFT 3700. Principles and issues related to destination management; strategies and processes involving design, operations, distribution, networking and impact of tourism at the destination. Occasional.

HFT 4752  RCHM-TEA  3(3,0)  Guest Services Management II: PR: HFT 3540 or C.I. Using decision theory and analytical techniques to create and maintain quality guest services. The emphasis is on strategic implications of quality service management. Occasional.

HFT 4753  RCHM-TEA  3(3,0)  Convention and Conference Services: PR: HFT 3511 and junior standing or C.I. Provides an in-depth understanding of the acquisition and management of services (food and beverage, audio visual, transportation, etc.) integral to effective convention and conference operations. Spring.

HFT 4754  RCHM-TEA  3(3,0)  Exhibit and Trade Show Operations: PR: HFT 2750 and junior standing or C.I. An in-depth study of exhibit and trade show operations. Focuses on both supply and demand pertaining to exhibits and trade shows. Fall, Spring.

HFT 4755  RCHM-TEA  3(3,0)  Theme Park and Attraction Management: PR: HFT 1000 and junior standing or C.I. An in-depth study of the theme park and attraction industry, focusing on resources, ride operations, merchandising, food services, and architectural design. Fall, Spring.

HFT 4758  RCHM-TEA  3(3,0)  Contemporary Issues in the Theme Park and Attraction Industry: PR: HFT 4755 and junior standing or C.I. Examination of current issues in the theme park and attractions industry, including hands-on situation analysis. Fall.

HFT 4759  RCHM-TLS  3(3,0)  Product Development in Theme Parks and Attractions: PR: HFT 4755 and junior standing or C.I. The strategic management process associated with product development in the theme parks and attraction industry. Spring.


HFT 4786  RCHM-TEA  3(3,0)  Managing the Guest Experience in the Theme Park and Attraction Industry: PR: HFT 4755. The management of guest needs and expectations in theme parks and attractions. Spring.

HFT 4787  RCHM-TEA  3(3,0)  Operational Issues in the Theme Park and Attraction Industry: PR: HFT 4755. Organizational structure and operational culture of theme parks and attractions. Fall.

HFT 4791  RCHM-TEA  3(3,0)  Event Management II: PR: HFT 3670, HFT 3512, HFT 3443, HFT 3792, FSS 2221C, HFT 3802, and HFT 3757. Capstone courses in event management. Students produce an event that has been planned in HFT 3757. Occasional.

HFT 4795  RCHM-TEA  3(3,0)  Entertainment Arts and Events: PR: HFT 2750 and HFT 4755 or C.I. A historical perspective of theme park, event, and attraction entertainment. Covers show development, event production, creative processes, casting, costume, staging, and evaluation. Fall, Spring.

HFT 4796  RCHM-TEA  3(3,0)  International Events: PR: HFT 1000 and HFT 2750; or C.I. Considerations when planning events that are held outside of the United States or that attract a large number of participants from outside the United States. Occasional.

HFT 4844  RCHM-HOS  3(3,0)  Sanitation in the Food Service Industry: PR: HFT 1000 and junior standing or C.I. Causes and prevention of food spoilage and foodborne illnesses. Includes National Restaurant Association (NRA) certification. Occasional.

HFT 4861C  RCHM-HOS  3(3,1)  Beverage Management: PR: Minimum age of 21 by the first day of class and junior standing. The origin production, sourcing, marketing, and control of beverages in the hospitality industry. Spring. M&S fee: $45.00

HFT 4864  RCHM-HOS  3(3,0)  Seminar in Quality Brewing and Fine Beer: PR: HFT 1000, HFT 3261. Minimum age of 21. The production and service of malt beverages. Spring. M&S fee: $45.00

HFT 4865  RCHM-HOS  3(3,0)  Advanced Wine Management: PR: HFT 4866C or C.I. Advanced study of viticulture, enology and wine regions of the world. Occasional.

HFT 4866C  RCHM-HOS  3(3,1)  Exploring Wines of the World: PR: HFT 1000, HFT 3261, and Age of 21; or C.I. Using senses to evaluate wines, methodology of tasting and evaluating wines, growing, processing, and production of grape varieties used in making wine. Odd Fall, Even Spring. M&S fee: $45.00

HFT 4894  RCHM-HOS  3(3,0)  International Gastronomy: PR: FSS 2221C, HFT 3700, and C.I. A world view of culture and cuisine that includes an international travel component. May be repeated for credit one time. Spring.

HFT 4949  RCHM-RCHM  0-5(1-5)  Cooperative Education: Provides paid, pre-professional work experience related to the students’ major while they continue to attend school. Requires achievement of major-related learning objectives. Fall, Spring.

HIM 3006  HPA-HP  3(3,0)  Foundations of Health Information Management (HIM): PR: Acceptance into upper-division limited access HIM program or C.I. Foundation of profession; release of information; record analysis; numbering and filing systems; standards for long-term care; ambulatory care; and mental health records. Fall, Spring.

HIM 3116C  HPA-HP  4(3,2)  Health Record Organization and Management: PR: HIM 3006. Nomenclature/classification systems; health and vital statistics; data analysis and presentation; indexing; computer abstracting; accrediting and approving agencies; medical staff organization. Spring.

HIM 3806L  HPA-HP  4(0,8)  Professional Practice Experience I: PR: Admission to HIM program. CR: HIM 3006, HIM 3531 and HIM 3116C. Interdepartmental experience; master patient index; numbering and filing systems; assembly and analysis; incomplete record control; record storage; retention and retrieval; and release of information. Fall, Spring.

HIM 3816L  HPA-HP  4(0,8)  Professional Practice Experience II: PR: HIM 3806L; and CR: HIM 4226C, HIM 4256C, HIM 4344C, and HIM 4506. Transcription; coding; quality improvement; risk management; human resources; statistics; accrediting and licensing; revenue management cycle; medical staff organization. Fall, Spring.

HIM 4226C  HPA-HP  5(3,4)  Coding Procedures I: PR: HSC 4550, HSC 3531, or C.I. Principles and mechanics of coding systems for inpatient health information retrieval; ICD-9-CM; DRGs; encoders. Fall, Spring.

HIM 4256C  HPA-HP  3(2,2)  Coding Procedures II: PR: HIM 4226C or C.I. Principles and mechanics of coding systems for outpatient health information retrieval; ICD-9-CM; HPCPs; APGs; encoders. Fall, Spring.

HIM 4344C  HPA-HP  4(3,2)  Health Information Department Management: PR: HIM 3116C, MAN 3025. Personnel administration; budgeting; forms analysis; work distribution and simplification; equipment selection; ergonomics and space planning. Fall.

HIM 4506  HPA-HP  3(2,2)  Quality Management: PR: HIM 3116C, HIM 4226C, CR: HIM 4256C. Principles and mechanics of quality improvement; utilization review; case management and risk management. Fall, Spring.

HIM 4656C  HPA-HP  3(2,2)  Health Information Management Systems: PR: HSA 4191, HIM 4256C. Visualization of information systems, management and patient care in the health care industry, systems analysis, system design and project management concepts. Fall, Spring.
HIM 4676  HPA-HP  3(3,0)  Professional Development and Issues in Health Information Management: PR: HIM 4344C, HIM 4506. Analysis of management functions in health care setting; the HIM professional as an educator; problem-solving techniques; professional ethics; alternative careers. Spring.

HIM 4838  HPA-HP  5(0,15)  Management Affiliation: PR: All other required courses. Assignment to a selected health care facility serving in an administrative capacity under the direction of a Registered Record Administrator; lab exercises; comprehensive exam. Fall, Spring.

HIS 3462  CAH-HIST  3(3,0)  History of Science: PR: EUH 2000 and EUH 2001 or C.I. Examines past and present science, scientific thought, and the relationship between science and society. Occasional.

HIS 3949  CAH-HIST  0(0,8)  Cooperative Education in History: PR: Departmental permission required before registering. Cooperative education experience in history. May be repeated. Graded SU. Occasional.

HIS 4070  CAH-HIST  3(3,0)  Oral History: PR: Either AMH 1010, AMH 2020 or C.I. Theories and practices of oral history. Field work required. Occasional.

HIS 4150  CAH-HIST  3(3,0)  History and Historians: PR: C.I. A study of European and/or American historiography. May be repeated once for credit. Fall, Spring.

HIS 4935  CAH-HIST  3(3,0)  Senior Seminar: PR: Senior standing, history major, and C.I. Research in history through sustained reading, writing, and discussion on a focused topic. May be repeated for credit. Fall, Spring.

HIS 4944  CAH-HIST  3(3,0)  Internship in Public History: PR: C.I. The Public History Internship is a one-semester course in which undergraduate history majors explore and gain experience in public history professions. Fall, Spring.

HIS 4970  CAH-HIST  3(3,0)  Senior Thesis: Original research paper available to advanced history majors; topics to be selected in consultation with a directing professor. Occasional.

HIS 5067  CAH-HIST  3(3,0)  Introduction to Public History: PR: Graduate status or senior standing or C.I. Examine and discuss the practice of history in museums, archives, documentary editing, historical publication, media, historical societies, and government agencies. Occasional.

HIS 5158  CAH-HIST  3(3,0)  Classic and Contemporary Historical Thought: PR: Graduate status or senior standing or C.I. Course will explore work of important historians influenced by social theory to gain an understanding of their main concepts. Occasional.

HLP 4722  ED-TLP  3(2,1)  Teaching Elementary School Health and Physical Education: PR: Admission to Phase II or C.I. Organization, practice, and conduct of health (including drug abuse) and physical education programs in the elementary school. Includes field experience. Fall, Spring.

HSA 3111  HPA-HP  3(3,0)  U.S. Health Care Systems: PR: Major or minor in College of Health or C.I. A survey of the economics, social, and political aspects of the health care system in the United States. Fall, Spring.

HSA 3111H  HPA-HP  3(3,0)  U.S. Health Care Systems Honors: PR: Major or minor in College of Health or C.I. Permission of Honors. A survey of the economics, social, and political aspects of the health care system in the United States. With Honors content. Occasional.

HSA 3170  HPA-HP  3(3,0)  Health Care Finance: PR: HSA 3111 or C.I. ACCT 2021 and ACCT 2071. Budgeting and resource allocation related to health care agencies. Fall, Spring.

HSA 3222  HPA-HP  3(3,0)  Long Term Care and Administration: PR: HSA 3111 or C.I. The clients, services, and administration of long-term care in specific settings. Students complete a service learning component in long-term care organizations. Even Fall, Spring.

HSA 3430  HPA-HP  3(3,0)  Health Care Economics: PR: HSA 3111; ECO 2023; or C.I. To provide an application of economic principles to analyze how different economic incentives affect patients, providers, and policy makers behaviors in the delivery of health services. Fall.

HSA 4109  HPA-HP  3(3,0)  Principles of Managed Care: PR: HSA 3111 or C.I. Course will introduce the contractual, financial, and practice pattern components of managed care. Even Fall, Spring.

HSA 4151H  HPA-HP  3(3,0)  Honors Health Care Policy: PR: Permission of Honors and Junior Standing or C.I. Examination of five significant policy issues to enable the student to gain knowledge and understanding of the complexities of health care as a societal issue. Occasional.

HSA 4150  HPA-HP  3(3,0)  Organization and Management for Health Agencies: PR: HSA 3111 or C.I. Organization and management of health care agencies, including procedural applications. Fall, Spring.

HSA 4219  HPA-HP  3(3,0)  Health Care Automation: PR: HSA 3111; CSS 2100C, or CSS 1060C; or C.I. Analysis and design of computerized systems for health data and health administration. Fall, Spring.

HSA 4219L  HPA-HP  3(3,0)  Community Health: PR: HSA 3111 or C.I. Historical, sociocultural and economic factors in community health; current community health problems; interface of governmental, voluntary and private agencies. Fall, Spring.


HSA 4502  HPA-HP  3(3,0)  Risk Management Systems: PR: HSA 3111 or C.I. Safety, liability and loss control issues with emphasis on risk retention, risk reduction and risk transfer in health care. Fall, Spring.

HSA 4701  HPA-COMD  6(6,0)  Introduction to Research in the Health Professions: PR: Senior or post-bac standing. The logic of research and the architecture of basic and applied investigations that are internally and externally reliable and valuable will be stressed. Occasional.

HSA 4702  HPA-HP  3(3,0)  Health Sciences Research Methods: PR: HSA 3111; STA 2014C or STA 2023; or C.I. Introduction to research design in the Health Sciences, including design, literature review, testing, analysis, and conclusions. Fall, Spring.

HSA 5584  HPA-HP  3(3,0)  CPT Coding for Health Services Administrators: PR: HSC 6636, B.S. in Health related field, or C.I. Emphasis on developing basic skills to facilitate an understanding of the coding process and the compliance issues relevant to the process. May be repeated for credit. Occasional.

HSA 5188  HPA-HP  3(3,0)  Health Care Decision Sciences and Knowledge Management: PR: 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. Occasional.

HWC 2100  HPA-HP  3(3,0)  Risk Management Systems: PR: HSA 3111 or C.I. Safety, liability and loss control issues with emphasis on risk retention, risk reduction and risk transfer in health care. Fall, Spring.

HSA 5177  HPA-HP  3(3,0)  Foundations of Health Care Finance: PR: Admission to graduate program in HSA or C.I. Preparatory course for graduate students who are not prepared to take the required health care finance course. Occasional.

HSA 5188  HPA-HP  3(3,0)  Health Care Decision Sciences and Knowledge Management: PR: 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. Occasional.

HSA 5257  HPA-HP  3(3,0)  ICD9 Coding for Health Services Administrators: PR: HSC 6636, B.S. in Health related field, or C.I. Emphasis on developing skills to facilitate an understanding of CPT Coding process and the compliance issues relevant to the process. May be repeated for credit. Occasional.

HSA 5258  HPA-HP  3(3,0)  CPT Coding for Health Services Administrators: PR: HSC 6636 or C.I., or BS in Health-related field. Emphasis on developing skills to facilitate an understanding of CPT Coding process and the compliance issues relevant to the process. Occasional.

HSA 5913C  HPA-HP  2(1,1)  Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Health & Public Affairs providing a foundation of leadership, scholarship, and service regarding disciplines in the college. Occasional.

HSC 2000  HPA-HP  2(2,0)  Introduction to the Allied Health Professions: A survey of allied health professions with regard to duties, responsibilities, education and training, ethics, and relationships with other health professionals. Graded SU. Fall.


HSC 2921  HPA-HP  2(2,0)  LEAD Colloquium: PR: Accepted to the LEAD Scholars Program and have completed at least two of the following with a B (3.0) or better: HSC 1910C, EGN 1036C, IDS 1040C, EGB 1091C or EDG 1095C. Experiential leadership in an appropriate setting with the LEAD Scholars Program. May be repeated for credit. Occasional.
HSC 3110C HPA-HP 3(2,2) Medical Self Assessment: Development of clinical skills and understanding of one's health to encourage active participation of individuals in their own health care. Fall, Spring. M&S fee: $15.00

HSC 3157 HPA-HP 3(3,0) Introduction to Pharmacology: Review of terminology and regulations. Study of drug types and usage. Fall, Spring.

HSC 3402C HPA-HP 3(2,3) CPR & First Aid: To train individuals to accepted and recognized medical standards in emergency first aid and CPR to include medical, environmental and trauma related emergencies. Occasional.

HSC 3531 HPA-HP 3(3,0) Medical Terminology: A study of the language of medicine and allied health specialties, including work construction, definitions, and application of terms. Fall, Spring.

HSC 3559 HPA-COMD 3(3,0) Disabilities in American Society: PR: Junior or senior status. Personal, social, and environmental impediments confronted by persons with disabilities, including communicative disorders. Strategies that promote life satisfaction are also reviewed. Fall.

HSC 3593 HPA-HP 3(3,0) HIV Disease: A Human Concern: Analysis of the spectrum of HIV disease and the issues surrounding this public health crisis. Fall, Spring.

HSC 3640 HPA-HP 3(3,0) Health Law: PR: HSA 3111 or C.I. Principles of law as applied to the health field, with special reference to health practices. Fall, Spring.

HSC 4008 HPA-HP 3(3,0) Professional Development in Health Professions: PR: RET 3026C or C.I. Career development planning, professional leadership approaches to problem solving, regulatory and professional requirements, and the impact of disease and technology on the health care industry. Spring.

HSC 4148 HPA-HP 2(2,0) Medical Pharmacology I: Drugs in pulmonary diseases; effects on nervous system, and neuroaffectives, depressants & stimulants; influence on metabolism and endocines. (MDRV) Bronchodilators, myoclytics, etc. Fall.

HSC 4149 HPA-HP 2(2,0) Medical Pharmacology II: PR: HSC 4148 or C.I. Drugs used in cardiovascular disorders. Includes inotropic, chronotropic agents, beta blocker drugs, calcium channel antagonists. Spring.

HSC 4243 HPA-HP 3(3,0) Analysis of Instruction in Health Professions: Development of teaching aids, audiovisuels, learning packets. Course development, questioning strategies, evaluation of didactic and clinical performance. Spring.

HSC 4500 HPA-HP 3(3,0) Epidemiology: PR: HSA 3111 or C.I., STA 2014C or STA 2023. A study of the distribution and determination of diseases and injuries in human population. Fall, Spring.

HSC 4550 HPA-HP 3(3,0) Pathophysiology Mechanisms: PR: ZOO 3733C and PCB 3705C, or C.I. A study of pathologic lesions and pathophysiologic mechanisms in causation and evolution of the various disease state. Fall, Spring.

HSC 4564 HPA-HP 3(3,0) Health Care Needs of the Elderly: PR: HSA 3111 or C.I. Overview of the physical and emotional needs of the elderly, including the institutional health care available. Fall, Spring.

HSC 4653 HPA-HP 3(3,0) Health Care Ethics: PR: HSA 3111 or C.I. A study of ethical issues in health care, including life-saving measures, rights to die, transplants, surrogate parenthood, privacy and confidentiality, and decision-making. Fall, Spring.

HSC 5317 ED-TLP 3(3,0) Health Methods: Teaching Strategies and Interventions: PR: Admission to Graduate Certificate in Health and Wellness or C.I. Application of the knowledge of teaching strategies, methodology, and curriculum to develop a comprehensive school health program. Occasional.

HSC 5595 HPA-HP 3(3,0) AIDS: A Human Concern: Focus on epidemiology, transmission, prevention, legal and health care issues, economic impact, psychosocial aspects, sexuality, substance abuse, ethics, hotlines, referral services and the decision making process. Occasional.

HUM 2020 CAH-PHIL 3(3,0) Encountering the Humanities: The range of ideas, research methods and approaches to scholarship, critical reflection, and creative work in the humanities. Spring.

HUM 2210 CAH-PHIL 3(3,0) Humanistic Tradition I: An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on ancient civilizations and the cultural heritage stemming from them. Primary sources (in translation) are emphasized. Fall, Spring.

HUM 2210H CAH-PHIL 3(3,0) Honors Humanistic Tradition I: PR: Permission of Honors. An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on ancient civilizations and the cultural heritage stemming from them. Primary sources (in translation) are emphasized. Honors content. Fall.

HUM 2230 CAH-PHIL 3(3,0) Humanistic Tradition II: An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on modern civilizations and their contributions to the Global Village. Primary sources (in translation) are emphasized. Fall, Spring.

HUM 2230H CAH-PHIL 3(3,0) Honors Humanistic Tradition II: PR: Permission of Honors. An interdisciplinary, multicultural study of the arts and sciences contributed by diverse human traditions to world civilization. Focus is on modern civilizations and their contributions to the Global Village. Primary sources (in translation) are emphasized. Honors content. Spring.

HUM 3252 CAH-PHIL 3(3,0) Contemporary Humanities: PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the 20th century. Occasional.

HUM 3255 CAH-PHIL 3(3,0) Modern Humanities: PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the modern period. Occasional.

HUM 3320 CAH-PHIL 3(3,0) Contemporary Multicultural Studies: PR: HUM 2230, Junior standing, or C.I. Studies the confluence of diverse cultures making up North America in the Information Age, focusing on complete primary sources in philosophy, literature, visual arts and music. Even Fall.

HUM 3394 CAH-PHIL 3(3,0) Representations of Place and Space: PR: HUM 2230 or C.I. Phenomenological, symbolic, constructivist, and determinist approaches to personal and social place and space. Occasional.

HUM 3401 CAH-PHIL 3(3,0) Asian Humanities: PR: HUM 2230 or C.I. An interdisciplinary survey of the cultures of India, China, and Japan concentrating on their traditional art, literature, religion, philosophy, and music. Occasional.

HUM 3417 CAH-PHIL 3(3,0) Hindu Thought and Culture: PR: HUM 2230, REL 2300, or C.I. A survey of the development of Hindu thought and culture from vedic times to the modern age, with emphasis on religion, literature, philosophy, art and music. Occasional.

HUM 3419 CAH-PHIL 3(3,0) Islamic Thought and Culture: PR: HUM 2230, or REL 2300, or C.I. The development of Islamic thought and culture, concentrating on religion, jurisprudence, philosophy, science and art with special focus on perception of Islam in Western literature and scholarship. Occasional.

HUM 3419H CAH-PHIL 3(3,0) Honors Islamic Thought and Culture: PR: HUM 2230, or REL 2300, and Consent of Honors. The development of Islamic thought and culture, concentrating on religion, jurisprudence, philosophy, science and art with special focus on perception of Islam in Western literature and scholarship. With Honors content. Occasional.

HUM 3431 CAH-PHIL 3(3,0) Ancient Humanities: PR: HUM 2230 or C.I. Development of Ancient Greek thought and culture with emphasis on philosophy, religion, literature and art. Occasional.

HUM 3435 CAH-PHIL 3(3,0) Medieval Humanities: PR: ENC 1102 or C.I. Development of Medieval thought and culture with emphasis on Philosophy, Religion, Literature and Art. Occasional.

HUM 3460 CAH-PHIL 3(3,0) Latin American Humanities: PR: HUM 2210 or HUM 2230. Ideas in cultures of Latin America and Caribbean basin as expressed in arts, architecture, music, philosophy, religion, literature and film. Occasional.

HUM 3552 CAH-PHIL 3(3,0) Christian Thought: PR: ENC 1102. Christian thought from 4th century to present, concentrating on human nature, social justice, the state, war, and attitudes toward women. Occasional.

HUM 3553 CAH-PHIL 3(3,0) Moses, Jesus and Muhammad: PR: HUM 2230, REL 2300, or C.I. Deals with the main themes of Judaism, Christianity, and Islam as found in the teachings of Moses, Jesus, and Muhammad. Occasional.

HUM 3800 CAH-PHIL 3(3,0) Research Methods in Humanities: PR: Junior standing, and Humanities or Philosophy major or C.I. Research skills for the humanities, including methodologies, writing techniques, essay structuring, formatting, and methods for citing references and constructing bibliographies. Occasional.
The search for order and form in the arts of various times are emphasized.

The Humanities with an emphasis on critical analysis of diverse disciplinary and interdisciplinary theories and methodologies. 

Approaches, concepts, methods, and theoretical issues in the Humanities with an emphasis on critical analysis of diverse disciplinary and interdisciplinary theories and methodologies. 

The Spiritual Ideal: PR: HUM 2210 and HUM 2230 or C.I. Concerns works of art reflecting spiritual insight or the spiritual quest; mystical impulses contrasted to ethos and pathos. Odd Fall, Spring.

Performance Theory: PR: Junior standing and HUM 2230 and either PHI 2010, PHI 2111, PHI 2108, or C.I. Traditional and contemporary theories of performance with a focus on linguistic performatives, bodily and virtual performances, self-identity, and the politics of performance. Occasional.

Portfolio: PR: Last semester as Humanities major. Presentation of a representative sampling of student's best undergraduate work, with appropriate revisions, including a cover narrative indicating development of humanistic knowledge and skills. Graded S/U. Fall, Spring.

Religious Quest and Human Dilemma: PR: ENC 1102 or C.I. Nature of the sacred, death, and future life and how they relate to human existence. Even Fall.

Religion and the Arts: PR: One of: HUM 2210, HUM 2230, ARH 2050, ARH 2051, or REL 2300. Art, music, dance, and ritual practices in religious traditions, with emphasis on the contemporary. Occasional.


Senior Research Seminar: PR: Senior standing and Humanities major. Capstone course on research, developing effective oral and written communication skills. Occasional.

Applied Contemporary Humanities: PR: HUM 5803, graduate status or senior standing, or C.I. Development of an application research project relevant to contemporary cultural issues, using Humanities theories and methods. Occasional.

Theories and Methods of the Humanities: PR: Senior undergraduate standing and at least one of the following: HUM 3252, HUM 3320, or PHI 4082 or Graduate Standing. Approaches, concepts, methods, and theoretical issues in the Humanities with an emphasis on critical analysis of diverse disciplinary and interdisciplinary theories and methods. Fall.

Modern Concepts in Nutrition: An examination of the eating patterns of today's American people. Topics include: nutrients in our diets, consumer demand in the food industry, fast food outlets, food trends and hunger. Fall, Spring.

Human Nutrition: Essentials of nutrition related to the life cycle, including the physiological, psychosocial, and cultural aspects of nutrition and the inter-relationships with disease are emphasized. Fall, Spring.
INP 3951 COS-PsyCh 3(0,10)
Industrial/Organizational Field Work: PR: C.I. An opportunity for advanced undergraduate psychology majors to become involved in the application of I/O psychology to local organizations. Occasional.

INP 4252 COS-PsyCh 3(3,0)
Advanced Industrial Psychology: PR: INP 3004 and PSY 323C. Application of psychological principles to industrial problems. Topics include selection, training, performance appraisal, job design, and work environment. Occasional.

INP 4313 COS-PsyCh 3(3,0)
Organizational Psychology: PR: INP 3004. Analysis of the psychological principles underlying individual and group behavior in an organizational setting. Topics include group dynamics, leadership and participation, intergroup behavior, and organization development. Occasional.

INP 5825 COS-PsyCh 3(3,0)
Human-computer Interface (HCI) design: A team approach: PR: Graduate status or senior standing or C.I. Interdisciplinary approach to human-computer interface design, including behavior, engineering, computer science, and instructional aspects. Tools and techniques for team development and the evaluation of software for usability. Occasional.

INR 2002 COS-Pols 3(3,0)
International Relations-Theory and Practice: Analysis of the fundamental principles and factors affecting interstate relations and their application to contemporary global developments. Fall, Spring.

INR 3016 COS-Pols 3(3,0)
Global Political Issues: PR: POS 2041 or C.I. Current global political topics from political development and income gap to gender issues and environmental challenges. Occasional.

INR 3250 COS-Pols 3(3,0)

INR 3253 COS-Pols 3(3,0)
International Politics of Africa: PR: Junior standing or C.I. The broad structures and processes of international politics and foreign policy in Africa, with particular attention on U.S.-African relations. Occasional.

INR 4011 COS-Pols 3(3,0)
Politics of Globalization: PR: INR 2002 or POS 2041 or C.I. Major political causes and consequences of globalization. Occasional.

INR 4030 COS-Pols 3(3,0)

INR 4035 COS-Pols 3(3,0)
International Political Economy: The international politics of regional and global economic interdependence, with emphasis upon North-South relations, the New International Economic Order, OPEC, and multinational corporations. Odd Spring.

INR 4054 COS-Pols 3(3,0)
Global Politics of Energy: PR: POS 2041 or INR 2002 or C.I. International/national dimensions of global energy policy within developed and underdeveloped countries. Occasional.

INR 4060 COS-Pols 3(3,0)
Causes of War: PR: POS 2041 or INR 2002 or C.I. The primary theoretical and empirical research explaining militarized interstate conflict. Fall.

INR 4064 COS-Pols 3(3,0)
Changing Nature of War: PR: POS 2041 or C.I. The changing nature of war in light of significant changes in technology and international politics. Occasional.

INR 4074 COS-Pols 3(3,0)
Immigration Policy: PR: POS 2041, Junior standing or C.I. Analysis of the complex subject of immigration, including U.S. and comparative immigration policy, illegal immigration, alien smuggling, and statelessness and their political/secure impact. Occasional.

INR 4075 COS-Pols 3(3,0)

INR 4076 COS-Pols 3(3,0)

INR 4085 COS-Pols 3(3,0)

INR 4102 COS-Pols 3(3,0)
American Foreign Policy: Development of American foreign policy, with emphasis on the role and policies of the United States in the contemporary world. Odd Fall.

INR 4104 COS-Pols 3(3,0)
Topics and Cases in American Foreign Policy: PR: POS 2041, Jr. standing or C.I. General or intensive analysis of problems or aspects of U.S. foreign policy. Issues may include September 11th, homeland security, counter-terrorism, politymaking and decision-making and intelligence. Odd Spring.

INR 4114 COS-Pols 3(3,0)
American Security Policy: PR: POS 2041, Junior standing, or C.I. Study of the evolution of American security policy since World War II, including consideration of the social and political costs involved and means of control. Occasional.

INR 4115 COS-Pols 3(3,0)
Strategic Weapons and Arms Control: Control of strategic weapons and their impact. Technological and policy aspects, including nuclear proliferation. Occasional.

INR 4224 COS-Pols 3(3,0)
Contemporary International Politics of Asia: Examinations of the foreign policies of major and secondary powers in Asia, with particular attention to China and Japan. Occasional.

INR 4225 COS-Pols 3(3,0)
The Vietnam War: Background of events leading to America's involvement in Indochina, the course of the Vietnam War, and the lessons which that war imports. Odd Spring.

INR 4243 COS-Pols 3(3,0)

INR 4304 COS-Pols 3(3,0)
Issues in International Public Policy: PR: POS 2041, Junior standing or C.I. Endogenous and exogenous variables, including policy analysis and decision-making, which influence select international public policy issues. Occasional.

INR 4335 COS-Pols 3(3,0)
Coercion in International Politics: Examination of the role of coercive techniques among states in a nuclear age, ranging from nuclear strategy and deterrence to wars of national liberation and coups. Even Fall.

INR 4350 COS-Pols 3(3,0)
Global Environmental Politics: PR: INR 2002 or POS 2041 or C.I. The unique environmental struggles and political issues that occur on the international and global levels. Fall.

INR 4351 COS-Pols 3(3,0)
International Environmental Law: PR: Junior standing or C.I. Examination of global efforts to establish a treaty regime for environmental protection of earth's biosphere when challenged by national sovereignty and economic and cultural diversity. Odd Spring.

INR 4364 COS-Pols 3(3,0)
The Intelligence Community: PR: POS 2041 or INR 2002 or CPO 3103 or C.I. The intelligence community structure in its relationship to foreign policy decision making, consideration of control and reliability questions, and issues of cooperation and coordination. Spring.

INR 4401 COS-Pols 3(3,0)
International Law I: PR: Junior standing or C.I. The nature, evolution, and sources of international law and such subareas as recognition of states and governments, expropriation, nationality, and aliens. Occasional.

INR 4402 COS-Pols 3(3,0)
International Law II: PR: INR 4401 or C.I. Examination of various sub-areas of international law, including maritime law, laws of the sea and seabed, air law, outer space, neutrality, and laws of war. Occasional.

INR 4404 COS-Pols 3(3,0)
Space Law: Examination of the legal regime of outer space from both international and national perspectives, and the legal problems arising from human activity in space. Occasional.

INR 4502 COS-Pols 3(3,0)
International Organizations: The study of the structure and workings of international organizations of cooperation, including the UN, its affiliates, and various regional organizations. Even Fall. Odd Spring.

INR 4603 COS-Pols 3(3,0)

INR 4714 COS-Pols 3(3,0)
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Degree</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISM 3011</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Essentials of Management Information Systems: PR: Junior standing and business major or minor, CGS 2100C or CGS 1060C. Management and use of information technology in organizations. Fall, Spring.</td>
</tr>
<tr>
<td>ISM 3011H</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Honors Management Information Systems: PR: Junior standing and business major or minor, permission of Honors, CGS 2100C or CGS 1060C. Management and use of information technology in organizations. Occasional.</td>
</tr>
<tr>
<td>ISM 3013</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Introduction to Information Systems Management: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. The Course introduces fundamental concepts and methods related to the management of information systems in organizations. Occasional.</td>
</tr>
<tr>
<td>ISM 3043</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Society and Technology: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Explores societal issues related to technology. Topics include technology ethics, privacy and security, and access inequities. Occasional.</td>
</tr>
<tr>
<td>ISM 3214</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Personal Database Productivity: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. The use of databases and data products. Emphasizes modern tools for accessing organizational data, data mining and reporting. Occasional.</td>
</tr>
<tr>
<td>ISM 3253</td>
<td>BA-MIS</td>
<td>4(3,3)</td>
<td>MIS Techniques: PR: MIS major or minor, CGS 2100C. Computer use required of users and developers of management information systems. Fall, Spring.</td>
</tr>
<tr>
<td>ISM 3424</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Computer-Aided Decision Making: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Prepares the student to use computer-based tools to assist in making organizational decisions. Also includes a component on problem solving techniques. Occasional.</td>
</tr>
<tr>
<td>ISM 3501</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Essentials of Electronic Commerce: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Basic electronic commerce and technologies. Students are required to develop an e-commerce related business plan and build a prototype Website using a tool. Occasional.</td>
</tr>
<tr>
<td>ISM 3521</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Business Applications: PR: CGS 2100C or CGS 1060C, and MAC 1105 or MGF 1106, and ISM 3011. MIS minor or non-major. Not open to MIS majors. Advanced topics concerning the use of application software in organizations. Focus on integration of applications. Occasional.</td>
</tr>
<tr>
<td>ISM 3530</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Quality &amp; Productivity Management: PR: MIS major or minor, GEB 3031 and MAN 3025. An examination of the principles and theories of quality and operations management in manufacturing and service organizations. Fall, Spring.</td>
</tr>
<tr>
<td>ISM 4113</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Information Systems Analysis and Design: PR: MIS major or minor, ISM 4212C, ISM 3253. Structured approaches to the development of computer-based information systems in business. Fall, Spring.</td>
</tr>
<tr>
<td>ISM 4114</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Advanced Business Application Development: PR: MIS major or minor, ISM 3253, ISM 4212C, CR: ISM 4220, ISM 4113. Theory and practice in developing client/server applications for business and use of modern development tools. Includes principles of multimedia, multitier application design and implementation. Occasional.</td>
</tr>
<tr>
<td>ISM 4130</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Information Systems Implementation: PR: MIS major or minor, ISM 4113. Management of information systems development in business. Fall, Spring.</td>
</tr>
<tr>
<td>ISM 4133</td>
<td>BA-MIS</td>
<td>6(6,0)</td>
<td>Information Systems Analysis, Design, and Implementation: PR: MIS major or minor, ISM 3253, ISM 4212C. Same as ISM 4113 and ISM 4130. Comprehensive coverage of analysis, design, and implementation of information systems. Occasional.</td>
</tr>
<tr>
<td>ISM 4154</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Enterprise Application Development: PR: ISM 4111. Design and development of enterprise applications with special emphasis on web based development platforms. Occasional.</td>
</tr>
<tr>
<td>ISM 4153</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Database Design and Implementation: PR: ISM 3011 and ISM 3011. Design and implementation of relational database in organizations. Fall, Spring.</td>
</tr>
<tr>
<td>ISM 4220</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Distributed Information Systems: PR: MIS major or minor, ISM 3253 and ISM 3011. Computer networking and communications. Managerial and technical dimensions of client/server and other modes of distributed and decentralized computing in business. Distributed database design and implementation. Fall, Spring.</td>
</tr>
<tr>
<td>ISM 4228</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Advanced Distributed Information Systems: PR: MIS major or minor, ISM 4220. Provides students with in-depth, hands-on experience with networking hardware and software. Teamwork emphasized in acquiring a master of networking concepts. Occasional.</td>
</tr>
<tr>
<td>ISM 4238</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Business Programming (OOP): PR: MIS major or minor, ISM 3253, ISM 4212C, or C.I. This course will provide an introduction to object-oriented programming (OOP) and object-oriented design (OOD). Occasional.</td>
</tr>
<tr>
<td>ISM 4300</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Technology Management: PR: MIS major or minor, ISM 4113, MAN 3025, Junior Standing. The strategy and theory of the design, development, adoption, and management of new information technologies. Fall, Spring.</td>
</tr>
<tr>
<td>ISM 4400</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Decision Support: PR: MIS major or minor, ISM 3011. Computer-based quantitative models and decision support systems in organizations. Fall, Spring.</td>
</tr>
<tr>
<td>ISM 4941</td>
<td>BA-MIS</td>
<td>3(0,3)</td>
<td>Internship in MIS: PR: ISM 3253, ISM 4212C, and ISM 3011, consent of department chair. Provides student with supervised, management information system-related work experience in a sponsoring organization. See department for information. Fall, Spring.</td>
</tr>
<tr>
<td>ISM 5020</td>
<td>BA-MIS</td>
<td>1.5(1,5,0)</td>
<td>MIS Foundations: PR: Acceptance to Graduate Study. Information systems are an integral part of modern organizations. This course provides an introduction to information systems from an organizational and managerial perspective. Occasional.</td>
</tr>
<tr>
<td>ISM 5021</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Introduction to Management Information Systems: PR: Acceptance into the graduate program. Designed to provide the student with the fundamentals of business data processing and management information systems used by organizations in a modern society. Occasional.</td>
</tr>
<tr>
<td>ISM 5123</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Concepts of Systems Analysis and Design: PR: Completion of ISM 5021 and Graduate Standing. Using a traditional life-cycle approach, the course introduces practical tools and techniques for organizational analysis and the subsequent design of an information system. Occasional.</td>
</tr>
<tr>
<td>ISM 5127</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Concepts of Database Design and Administration: PR: ISM 5020 and admission to graduate study. MIS major or minor in term of graduation. Introduces concepts and methods related to the effective utilization of data by organizations. A database life-cycle approach is used to organize course content. Occasional.</td>
</tr>
<tr>
<td>ISM 5219</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Business Intelligence Systems: PR: All BS and MIS technical courses required for admission to the MSIMIS program. Modern paradigms in data analysis. The detection of useful patterns and relationships in databases. Occasional.</td>
</tr>
<tr>
<td>ISM 5256</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Concepts of Business Programming: PR: Admission to Graduate Study. Principles of programming including program design, fundamental programming concepts, and database access. Occasional.</td>
</tr>
<tr>
<td>ISM 5315</td>
<td>BA-MIS</td>
<td>3(3,0)</td>
<td>Information Systems Project Management: PR: Graduate standing or C.I. This course introduces students to the concept of project management including project scope, cost, time and quality. Occasional.</td>
</tr>
</tbody>
</table>
Italian Syntax Abroad: Advanced Italian Oral Communication: business purposes.

Italian for Business: ITA 3440 CAH-LANG 3(3,0) Italian culture.

ITTA 3420 CAH-LANG 3(3,0) Development of skills in conversation and comprehension and correctness in speaking. Occasional.

ITTA 3420 CAH-LANG 3(3,0) Study Abroad: Modern and Contemporary Italian Culture: PR: Junior standing and C.I. Modern and contemporary Italian culture in the natural environment. Occasional.

ITTA 4957H CAH-LANG 3(3,0) Honors Italian Literature in Translation: PR: ENC 1102 and consent of Honors. Main literary tendencies and authors of Italian Literature, with honors content. Occasional.

ITW 3100 CAH-LANG 3(3,0) Survey of Italian Literature I: PR: ITA 2201. Main currents and writers in Italian literature from the 12th through the 15th centuries. Occasional.

ITW 3101 CAH-LANG 3(3,0) Survey of Italian Literature II: PR: ITA 2201. Main currents and writers in Italian literature from the 15th century to the present. Occasional.


JOU 2100C COS-COMM 3(3,1) News Reporting: PR: Com pending, or Journalism Major, or Magazine Journalism Minor and meet grammar proficiency requirement. News-gathering and writing for the mass media. Fall, Spring. M&S fee: $15.00

JOU 3004 COS-COMM 3(3,0) History of American Journalism: Development of mass media, leading innovators, and the media role in the nation's history. Fall, Spring.

JOU 3101 COS-COMM 3(3,0) Advanced Reporting: PR: Journalism major or Magazine Writing minor, a minimum grade of "C" (2.0) in JOU 2100C, and a minimum grade of "C" (2.0) in JOU 3100, and a minimum grade of "C" (2.0) in JOU 2100C. Advanced information-gathering and development of news writing skills. Fall, Spring. M&S fee: $15.00

JOU 3201 COS-COMM 3(3,0) Editing I: PR: Journalism major or Magazine Writing minor, meet Grammar Proficiency standard, and a minimum grade of "C" (2.0) in JOU 2100C. Advanced information-gathering and development of news writing skills. Fall, Spring. M&S fee: $15.00

JOU 3202 COS-COMM 3(3,0) Editing II: PR: Journalism major or Magazine Writing minor, meet Grammar Proficiency standard, and a minimum grade of "C" (2.0) in JOU 2100C. Advanced practical aspects of editing, Principles of design, Practice in editing and layout. Fall, Spring. M&S fee: $15.00

JOU 3313C COS-COMM 3(2,1) Sports Reporting: PR: Journalism major and a minimum grade of "C" (2.0) in JOU 2100C. Covering sports for the print media; issues, principles, and practices. Occasional.

JOU 3510 COS-COMM 3(3,0) Magazine Publishing: PR: Journalism major or Magazine Writing minor, and a minimum grade of "C" (2.0) in JOU 2100C. The magazine industry, emphasizing business operations and current topics. Spring.

JOU 4181 COS-COMM 3(3,0) Public Affairs Reporting: PR: Journalism major, and a minimum grade of "C" (2.0) in both JOU 2100C and JOU 3__C Metro Reporting. Reporting on city, county and state government. Fall, Spring.

JOU 4211C COS-COMM 3(2,1) Informational Graphics: PR: JOU major and a minimum grade of "C" (2.0) in JOU 2100C. Use of boxes, charts and graphics in the print media. Occasional.

JOU 4223C COS-COMM 3(2,1) Page Design: PR: Journalism major and JOU 3202 or VIC 3001. Designing newspaper pages, including stories, headlines, and other content. Occasional.

JOU 4224 COS-COMM 3(3,0) Magazine Editing and Production: PR: Journalism major or Magazine Writing minor, and a minimum grade of "C" (2.0) in JOU 2100C. The magazine industry, including writing and editing skills, and editorial, business, and production requirements. Occasional.

JOU 4300 COS-COMM 3(3,0) Feature Writing: PR: Journalism major or Magazine Writing minor. Writing reviews of movies, plays, television programs, concerts, books, and other cultural works. Fall, Even Spring.

JOU 4306C COS-COMM 3(1,2) Critical Writing: PR: Journalism major or Magazine Writing minor. Writing reviews of movies, plays, television programs, concerts, books, and other cultural works. Occasional.

JOU 4308 COS-COMM 3(3,0) Freelance Writing: PR: Journalism major or Magazine Writing minor. A study of the techniques and procedures of freelance writing, including the preparation of several manuscripts. Occasional.

JOU 4340C COS-COMM 3(1,3) On-line Journalism I: PR: A minimum grade of "C" (2.0) in JOU 2100C, and PUR 3100. The development, impact and problems of using the Internet as a journalistic tool. Write and design news for the Web. Occasional.

JOU 4341C COS-COMM 3(1,3) On-line Journalism II: PR: JOU 4340C. Study, design, and development of on-line journalism materials. Occasional. M&S fee: $15.00


JOU 4700 COS-COMM 3(3,0) Journalism Ethics: PR: MMC 4200. Ethical problems, codes, and practices in newsrooms. Occasional.

JPN 1120 CAH-LANG 4(4,1) Elementary Japanese Language and Civilization I: Introduces the student to Japanese culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Fall, Spring.


JPN 2120 CAH-LANG 3(3,0) Intermediate Japanese Language and Civilization I: PR: ITA 1121 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar and study of syntax, with emphasis on Japanese civilization. Fall.

JPN 2121 CAH-LANG 3(3,0) Intermediate Japanese Language and Civilization II: PR: ITA 2120 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar and study of syntax, with emphasis on Japanese civilization. Spring.

JPN 3121 CAH-LANG 3(3,0) Intensive Japanese Conversation: PR: One year of Italian or equivalent. Practical use of the language leading toward fluency and correctness in speaking. Occasional.

JPN 3220 CAH-LANG 3(3,0) Advanced Japanese Conversation: PR: ITA 2201 or equivalent. Development of skills in conversation and comprehension with an introduction to Italian culture. Occasional.

JPN 3420 CAH-LANG 3(3,0) Advanced Japanese Composition: PR: ITA 2201 or equivalent. Development of skills in composition, with an introduction to Italian culture. Spring.


JPN 3472 CAH-LANG 3(3,0) Renaissance Art Abroad: PR: Junior standing. A study of Renaissance art from Giotto to Michelangelo. Occasional.

JPN 3760 CAH-LANG 3(3,0) Advanced Italian Oral Communication: PR: ITA 2201 or equivalent. Vocabulary building with systematic training in diction and pronunciation. Speeches and oral presentations as well as production and delivery of real-life dialogues. Fall.

JPN 4820 CAH-LANG 3(3,0) Italian Syntax Abroad: PR: ITA 3420. A study of Italian Syntax for advanced students of Italian. Occasional.

365
LAE 5465 ED-TLP 3(3,0)
Literature for Adolescents: PR: Senior standing or C.I.
Selecting and evaluating books for adolescents with emphasis on the use of literature in the development of young people. Fall.

LAE 5495 ED-TLP 3(3,0)
Assessing Writing: PR: C.I. Students will explore a variety of strategies for assessing students’ writing including holistic scoring, primary trait scoring, and portfolio assessment. Spring.

LAH 3130 CAH-HIST 3(3,0)

LAH 3200 CAH-HIST 3(3,0)

LAH 3400 CAH-HIST 3(3,0)
History of Mexico and Central America: PR: EUH 2000 and 2001 or C.I. A survey of Mexican and Central American history from Pre-Columbian times to the present. Occasional.

LAH 3470 CAH-HIST 3(3,0)
History of the Caribbean: PR: EUH 2000 and 2001 or C.I. History of Cuba, Puerto Rico, Dominican Republic, and Haiti from Pre-Columbian times to the present. Occasional.

LAH 4461 CAH-HIST 3(3,0)

LAH 4480 CAH-HIST 3(3,0)

LAH 4742 CAH-HIST 3(3,0)
The Mexican Revolution: PR: AMH 2020 or C.I. Political and social history of Mexico since 1910 and domination of one party rule over 70 years. Occasional.

LAH 5713 CAH-HIST 3(3,0)
Colloquium in U.S.-Latin American Relations: PR: Graduate status or senior standing or C.I. The course will analyze U.S.-Latin American relations from an historical perspective. It will be presented through readings and discussion of selected materials. Occasional.

LAS 4023 CAH-AAS 3(3,0)
African Caribbean Experience: PR: Junior standing or C.I. Interdisciplinary study of the evolution of African Caribbean culture, its influence on institutions, social and political movements, and contemporary Caribbean society. Occasional.

LAT 1120 CAH-LANG 4(4,1)
Elementary Latin Language and Civilization I: PR: Permission of Honors. Introduces the student to Latin culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language, with honors-level content. Fall.

LAT 1120H CAH-LANG 4(4,1)
Honors Elementary Latin Language and Civilization I: PR: Permission of Honors. Introduces the student to Latin culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language, with honors-level content. Occasional.

LAT 1121 CAH-LANG 4(4,1)
Elementary Latin Language and Civilization II: PR: LAT 1120 or equivalent. Continuation of LAT 1120. Spring.

LAT 1121H CAH-LANG 4(4,1)
Honors Elementary Latin Language and Civilization II: PR: LAT 1120H or equivalent permission of Honors. Continuation of LAT 1120H, with honors-level content. Occasional.

LIN 3010 CAH-ENG 3(3,0)

LIN 3640 COS-PSYCH 3(3,0)
Psychology of Oral Communication: Psychological principles involved in the communicative process, with application to individuals and groups. Occasional.

LIN 3716 HPA-COMD 3(3,0)
Language Development: Birth Through 8 Years.: PR: DEP 2004. Study of the language acquisition process in children from birth through eight years and how meaning is conveyed through sounds, words, and sentences. Fall, Spring.

LIN 3717 HPA-COMD 3(3,0)
Language Development: 9 - 18 Years: PR: LIN 3716. Study of the language acquisition process in children from nine through eighteen years and how meaning is conveyed through sounds, words, and sentences. Fall, Spring.

LIN 4100 CAH-ENG 3(3,0)

LIN 4615 CAH-ENG 3(3,0)

LIN 4630 CAH-ENG 3(3,0)
Cross Cultural Communication: PR: ENC 1102 and Junior standing or C.I. Styles of spoken, written, and nonverbal communication of selected cultural groups. Occasional.

LIN 4660 CAH-ENG 3(3,0)

LIN 4711 HPA-COMD 3(3,0)
Language Analysis: PR: LIN 3716 and LIN 3717. Introduction to procedures for sampling, analyzing, and describing language across the lifespan. Fall, Spring.

LIN 4711L HPA-COMD 1(0,1)
Language Analysis Lab: PR: LIN 3716 and LIN 3717. Introduction to procedures for sampling, analyzing and describing language samples across the lifespan. Graded S/U. Fall, Spring.

LIN 4801 CAH-ENG 3(3,0)
Language and Meaning: PR: ENC 1102 and Sophomore standing. A linguistic study of the nature of language, meaning, and the ways in which man uses language in various social, cultural, institutional, and professional settings. Occasional.

LIN 5137 CAH-ENG 3(3,0)
Linguistics: PR: Graduate status or senior standing or C.I. Modern linguistic theories and studies focusing on language acquisition and development, contemporary American English, semantics, and para-linguistics. Occasional.

LIN 5675 CAH-ENG 3(3,0)
English Grammar and Usage: PR: Graduate status or senior standing or C.I. An overview of modern grammar, including structural, transformational and rhetorical grammar, along with an examination of controversial usage. Occasional.

LIT 2000 CAH-ENG 3(3,0)
Introduction to Literary Interpretation: PR: ENC 1102. Interpretation of fiction, drama, verse: conflict, characterization, point of view, rhetorical and poetic devices, figurative language, verse forms; application of critical approaches to selected works. Occasional.

LIT 2110 CAH-ENG 3(3,0)
World Literature I: PR: ENC 1102. Poetry, prose, and drama selected from ancient Hebrew, Greek, and Oriental literature and from that of Renaissance Europe. Fall, Spring.

LIT 2120 CAH-ENG 3(3,0)
World Literature II: PR: ENC 1102. Readings from Moliere, Voltaire, Goethe, Pushkin, Balzac, Tolstoy, Ibsen, Mann, Kafka, Camus, and others. Fall, Spring.

LIT 2120H CAH-ENG 3(3,0)
World Literature II — Honors: PR: Permission of Honors. Same as LIT 2120, with honors-level content. Occasional.

LIT 3082 CAH-ENG 3(3,0)
Continental European Fiction Since 1900: PR: ENC 1102. A selection of significant works of fiction written in various languages during the present century, read in translation. Occasional.

LIT 3192 CAH-ENG 3(3,0)
Caribbean Literature: PR: ENC 1102. Traces how Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture, in English. Occasional.

LIT 3192H CAH-ENG 3(3,0)
Honors Caribbean Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. How Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture, taught in English. Honors content. Occasional.

LIT 3202 CAH-ENG 3(3,0)
Death and Dying: PR: ENC 1102. Considering the topic of death and dying through a study of literature, the course includes facts, psychological impact, ideological responses and the self-identity. Occasional.

LIT 3313 CAH-ENG 3(3,0)
LIT 3313H CAH-ENG 3(3,0) Honors Science Fiction Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. An investigation of science fiction as a literary form, together with select- ed readings. Honors content. Occasional.

LIT 3383 CAH-ENG 3(3,0) Women in Literature: PR: ENC 1102. Fiction, poetry, drama and non-fiction by selected women writers, such as Emily Dickinson, Jane Austen, George Eliot, Kate Chopin, Zora Neale Hurston, Toni Morrison, Adrienne Rich, Gwendolyn Brooks. Occasional.

LIT 3383H CAH-ENG 3(3,0) Honors Women in Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. Fiction, poetry, drama and non-fiction by selected women writers, such as Emily Dickinson, Jane Austen, George Eliot, Kate Chopin, Zora Neale Hurston, Toni Morrison, Adrienne Rich, Gwendolyn Brooks. Honors content. Occasional.

LIT 3394 CAH-ENG 3(3,0) Literature of AIDS: PR: ENC 1102. To familiarize students with the new genre of literature that has arisen related to AIDS. Essays, short stories, plays, poetry, diaries, and novels will be covered. Occasional.

LIT 3394H CAH-ENG 3(3,0) Honors Literature of AIDS: PR: Permission of Honors and ENC 1102H or equivalent credit. Literature related to AIDS. Essays, short stories, plays, poetry, diaries, and novels. Honors content. Occasional.

LIT 3482 CAH-ENG 3(3,0) Literature & Popular Culture: PR: ENC 1102. Analysis of media to determine popular values in the formation of popular cultural perceptions. Occasional.

LIT 3823 CAH-ENG 3(3,0) Hispanic Women Writers: PR: ENC 1102. Hispanic women writers in a variety of genres. May be repeated for credit. Occasional.

LIT 3905 CAH-ENG 3(3,0) Directed experience in Literature: PR: ENC 1102. C.I. Individualized topics of study and/or research in literature with personalized faculty direction. May be repeated for credit. Occasional.

LIT 3911H CAH-ENG 1(1,0) Research Methods — Honors: PR: Permission of Honors. Introduction to scholarship and practical research in literature and writing. Occasional.

LIT 4043 CAH-ENG 3(3,0) Modern Drama As Literature: PR: ENC 1102 and ENG 3014. A study of important plays, playwrights, themes, movements, and styles in modern American, British, and European drama. Occasional.

LIT 4184 CAH-ENG 3(3,0) Irish Literature: PR: ENC 1102 and ENG 3014. Study of literature written in Ireland, within the context of Irish history, politics, culture and colonial experience. Occasional.

LIT 4303 CAH-ENG 3(3,0) Post-World War II Fiction: PR: ENC 1102 and ENG 3014. An investigation of various modes of reality in the works of significant postmodernist world authors, crossing cultural boundaries. Occasional.

LIT 4374 CAH-ENG 3(3,0) Literature of the Bible: PR: ENC 1102 or ENG 3014 or C.I. Literary forms in the Bible — narrative, poetic, and dramatic — and their reflection in modern literature. Occasional.

LIT 4374H CAH-ENG 3(3,0) Honors Literature of the Bible: PR: Permission of Honors and ENC 1102H or equivalent credit. Literary forms in the Bible — narrative, poetic, and dramatic — and their reflection in modern literature. Honors content. Occasional.

LIT 4433 CAH-ENG 3(3,0) Literature of Science and Technology: PR: ENC 1102 and Junior Standing or C.I. Major works of non-fiction that address and describe the history, philosophy, politics, and new ideas in science and technology. Fall.

LIT 4554 CAH-ENG 3(3,0) Advanced Feminist Theories: PR: ENC 1102, WST 3015 or ENG 3014. An advanced exploration of feminist critical theories and practices. Occasional.

LIT 4937H CAH-ENG 3(3,0) English Honors Seminar: PR: ENG 3014 and permission of Honors. In-depth study of language and/or literature with an emphasis on creative and critical abilities. Occasional.

LIT 5028 CAH-ENG 3(3,0) Form and Theory of Short Story: PR: Graduate status or senior standing or C.I. Evolving forms and theories of short fiction and the implications of form and theory. Occasional.

LIT 5039 CAH-ENG 3(3,0) Studies in Contemporary Poetry: PR: Graduate status or senior standing or C.I. English language poetry from 1945 to the present. Emphasis will be on American poets, but others such as English or Australian will be included. Occasional.

LIT 5097 CAH-ENG 3(3,0) Studies in Contemporary Fiction: PR: Graduate status or senior standing or C.I. Fiction in the last 20 years in the United States and Britain. May be repeated for credit when content is different. Occasional.

LIT 5250 CAH-ENG 3(3,0) The Victorian Age: Poetry: PR: Graduate status or senior standing or C.I. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, Hardy, the Rossetti, Emily Bronte, and others. Occasional.

LIT 5269 CAH-ENG 3(3,0) Nineteenth-Century Essays: PR: Graduate status or senior standing or C.I. English non-fiction prose of the 19th century. Occasional.

LIT 5309 CAH-ENG 3(3,0) Popular Culture and Media: PR: Graduate status or senior standing or C.I. Study of contemporary media and the literature of popular culture. Occasional.

LIT 5366 CAH-ENG 3(3,0) The Romantic Revolt (19th Century Literature): PR: Graduate status or senior standing or C.I. The romantic revolt in poetry and prose; English, American and Continental literature from 1798 to 1832. Occasional.

LIT 5387 CAH-ENG 3(3,0) Captives, Housewives, and Coquettes: PR: Graduate status or senior standing or C.I. Course considers early American women’s literature from 17th to 19th centuries. Occasional.

LIT 5389 CAH-ENG 3(3,0) Studies in Gender & Fiction Writing: PR: Graduate status or senior standing or C.I. Graduate study of gender’s implications for teaching and practice of fiction writing. Occasional.

LIT 5435 CAH-ENG 3(3,0) Rhetoric of Science: PR: Graduate standing or C.I. To engage in rhetorical analysis of traditional scientific texts and critically examine the discourse of technology. Occasional.

LIT 5556 CAH-ENG 3(3,0) Advanced Feminist Theories: PR: Graduate status or senior standing or C.I. Graduate level Feminist Theories from "French Feminism" to "Critical Race Theories." Occasional.


MAA 4227 COS-MATH 3(3,0) Advanced Calculus II: PR: MAA 4226 or C.I. Continuation of MAA 4226. Spring.

MAA 5210 COS-MATH 4(4,0) Topics in Advanced Calculus: PR: MAA 4226 or equivalent, graduate status or senior standing, or C.I. Topics in multivariable calculus, including limits, continuity, integration, differentiation, Taylor’s theorem, inverse and implicit function theorems. Fall.

MAA 5405 COS-MATH 3(3,0) Complex Variables: PR: MAC 2313, and graduate status or senior standing or C.I. Analytic functions. Integration in the complex plane. Laurent series and residue calculus. Inversion of Laplace transformations. Conformal mappings. Applications in engineering and the physical sciences. Fall.

MAA 5416 COS-MATH 3(3,0) Foundations of Analysis: PR: MAA 4226, and graduate status or senior standing or C.I. Topological spaces, compactness results, connectedness, analytical and differentiable manifolds, topological groups, Lie groups, representation theory for classical groups, Green, Stoke and Gauss’ theorems. Odd Spring.

MAC 1105 COS-MATH 3(3,0) College Algebra: PR: Intermediate algebra or 2 years of high school algebra or C.I. Inequalities. High degree polynomials. Graphs, rational, logarithmic, and exponential functions. Systems of equations, matrices, determinants, induction. This course prepares students for higher-level mathematics courses. The “NC” grading policy applies to this course. Fall, Spring.

MAC 1105H COS-MATH 3(3,0) Honors College Algebra: PR: Appropriate score on placement test and permission of Honors. Analysis of functions (including polynomial, rational, exponential, logarithmic), analysis of conic sections, analysis of systems of linear equations, sequences and series, mathematical induction, and the binomial theorem. The “NC” grading policy applies to this course. Occasional.

MAC 1114 COS-MATH 3(3,0) College Trigonometry: PR: MAC 1105 or 2 years of high school algebra or C.I. The circle arc length, circular functions, identities, inverse functions, applications to simple harmonic motion, function of angles, complete development of triangle solving. The “NC” grading policy applies to this course. Fall, Spring.
MAC 2233 COS-MATH 3(3,0)  
Concepts of Calculus: PR: MAC 1105 or C.I. The differential and integral calculus of rational, exponential and logarithmic functions, with applications to business analysis. Not open to students with credit in MAC 2234 or MAC 2311. The "NC" grading policy applies to this course. Fall, Spring.

MAC 2241 COS-MATH 4(4,0)  
Calculus for Life Sciences: PR: MAC 1105. Discrete dynamical systems, derivatives and dynamics, applications of derivatives, integrals and their applications. For biologists and others required to have one semester of calculus. The "NC" grading policy applies to this course. Occasional.

MAC 2255 COS-MATH 3(3,0)  
Applied Calculus II: PR: MAC 2253 or C.I. Continuation of MAC 2253. Fall, Spring.

MAC 2311 COS-MATH 4(4,0)  
Calculus with Analytic Geometry I: PR: MAC 1105 and MAC 1114 or C.I. Differential and integral calculus. An introduction to differential equations and Laplace Transforms. Applications to engineering technology. Not open to students with credit in MAC 2311 or MAC 2312. The "NC" grading policy applies to this course. Fall, Spring.

MAC 2311H COS-MATH 4(4,0)  
Calculus with Analytic Geometry I (Honors): PR: Permission of Honors. Differential and integral calculus, emphasizing understanding basic concepts and their applications. Students will complete projects on their own. For honors students from all disciplines. The "NC" grading policy applies to this course. Occasional.

MAC 2312 COS-MATH 4(4,0)  
Calculus with Analytic Geometry II: PR: MAC 2311 or C.I. Continuation of MAC 2311. Fall, Spring.

MAC 2312H COS-MATH 4(4,0)  

MAC 2313 COS-MATH 4(4,0)  
Calculus with Analytic Geometry III: PR: MAC 2312 or C.I. Continuation of MAC 2312. Fall, Spring.

MAC 2313H COS-MATH 4(4,0)  

MAC 3103H COS-MATH 3(3,0)  

MAC 3104 COS-MATH 3(3,0)  
Foundations of Discrete Math: PR: 2 years of high school algebra and 1 year of geometry or C.I. Basic mathematical logic, methods of proof in mathematics, and application to elementary discrete structure. Fall, Spring.

MAC 4203 COS-MATH 4(4,0)  
Combinatorics and Graph Theory I: PR: MAC 2312, STA 2023, and MTH 3302. Counting principles, inclusion/exclusion principle, recurrence relations, generating functions, properties of graphs and digraphs, trees, path problems, coloring planarity, connectiveness matchings and coverings, applications. Fall.

MAC 5205 COS-MATH 3(3,0)  
Combinatorics and Graph Theory II: PR: MAC 4203, graduate status or senior standing, or C.I. Polya's theory of counting; Latin squares and rectangles; block designs; coding theory; probabilistic methods, hypergraphs, applications. Odd Spring.

MAE 2801 ED-TLP 4(3,1)  
Elementary School Mathematics: PR: MAC 1105 or MGF 1106. Mathematics appropriate for the elementary school including the six basic sets of numbers, concepts, learning sequences, algorithms, problem-solving techniques, error patterns, number systems, and geometry. Fall, Spring.

MAE 4300 ED-CFCS 3(3,0)  
Exploring Mathematics: Provides students with the knowledge and skills to design, implement, and facilitate the development of mathematics concepts and skill through an integrated developmentally appropriate curriculum. Fall.

MAE 4326 ED-TLP 4(3,1)  
How Children Learn Mathematics: PR: MAE 2801 or C.I., and admission to Phase II. Instructional strategies, learning activities, the use of manipulatives, lesson planning, evaluation of mathematical learning, and diagnostic techniques. Fall, Spring.

MAE 4360 ED-TLP 4(3,2)  
Mathematics Instructional Analysis: PR: EDG 4323. Study of course objectives for the middle grades and high school curriculum and survey of methods and materials which have special application for teaching mathematics. Fall.

MAE 4634 ED-TLP 3(2,1)  

MAE 5318 ED-TLP 3(3,0)  
Current Methods in Elementary School Mathematics: PR: EDG 4323. Strategies of instruction of computation and concepts of number, geometry, and measurement; instructional materials. (Meets Elementary Education certification requirements.). Fall, Spring.

MAE 5327 ED-TLP 3(3,0)  
Teaching Middle School Mathematics: PR: EDG 6236 or C.I. 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. Occasional.

MAD 5535 COS-MATH 3(3,0)  
Curve Fitting: PR: Gradate status or senior standing or C.I. 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. Even Fall.

MAN 3025 BA-MAN 3(3,0)  
Management of Organizations: PR: Junior standing and business major or minor, ACG 2071, ECO 2013, ECO 2023. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior and control. Fall, Spring.

MAN 3025H BA-MAN 3(3,0)  
Honors Management of Organizations: PR: Junior standing and business major or minor, permission of Honors, ECO 2013, ECO 2023 and ACG 2071. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior, and control. Applicable to honors students. Occasional.

MAN 3301 BA-MAN 3(3,0)  
Management of Human Resources: PR: Management major. MAN 3025, Junior Standing. Provides students with a complete, comprehensive review of essential human resource management concepts and techniques. Applicable to all students of management. Fall, Spring.

MAN 4029 BA-MAN 3(3,0)  
Service Organization Management: PR: Management major, MAN 3025. The study of individual, interpersonal, group, and intergroup problems in business organizations through the use of cases and experimental exercises. Fall, Spring.

MAN 4240 BA-MAN 3(3,0)  

MAN 4310 BA-MAN 3(3,0)  
Human Resource Management Issues: PR: Management major, Junior standing, MAN 3301. An application-oriented course to give students in the area experiences generally reserved for practitioners in the field of human resource management and labor relations. Odd Spring.

MAN 4320 BA-MAN 3(3,0)  
Human Resources Recruitment and Selection: PR: Management major, MAN 3301. A concentrated investigation of the methods appropriate to the development, implementation and administration of the staffing process in contemporary organizations. Fall, Spring.

MAN 4330 BA-MAN 3(3,0)  
Compensation Administration: PR: Management major, MAN 3301. Presentation of compensation theory and current pay related issues and their application to the design and administration of pay systems in large and small organizations. Fall, Odd Spring.
MAN 4401 BA-MAN 3(3,0)
Labor Relations Management: PR: Management major, Junior standing, MAN 3301. The impact of employee organizations on labor relations, current problems, conflicts and trends; the development of managerial approaches to achieve labor-management cooperation. Occasional.

MAN 4441 BA-MAN 3(3,0)

MAN 4521 BA-MAN 3(3,0)
Production Planning and Control: PR: Management major, ISM 3530. In depth study on long-range, intermediate-range and short-range planning and control methods as applied to a manufacturing organization. Occasional.

MAN 4600 BA-MAN 3(3,0)
International Management: PR: Management major, GEB 4361. The course examines issues involved in multinational management of business firms, with special emphasis on comparative management. Fall, Spring.

MAN 4701 BA-MAN 3(3,0)
Business Ethics and Society: PR: Management major, MAN 3025. This course applies the ethics dimension to business decisions in today's complex political, social, economic and technological environment. Fall, Spring.

MAN 4720 BA-MAN 3(3,0)
Strategic Management: PR: MAN 3025, MAR 3023, FIN 3403 and GEB 3601. Students assume a strategic view of organizations and integrate and apply material learned in their business courses to modern organizational problems and opportunities. Fall, Spring.

MAN 4720H BA-MAN 3(3,0)

MAN 4802 BA-MAN 3(3,0)
Entrepreneurship: PR: GEB 3031 or (MAN 3025 and MAR 3023). Study of entrepreneurship with emphasis on innovation, feasibility, planning, product and service concepts, and organizing financing and developing a new venture. Fall, Spring.

MAN 4804 BA-MAN 3(3,0)
Small Business Consulting: PR: 3.0 GPA and Business major in graduation term or C.I. Students are assigned teams and work with a local small business. Occasional.

MAN 4941 BA-MAN 3(3,0)
Management Internship: PR: Management major, application approval, consent of department chair. Provides student with supervised, management-related work experience in a sponsoring organization. See department for information; application required. NOTE: MAN 4941 may not be counted for restricted elective credit in management. May be repeated for credit. Occasional.

MAN 5021 BA-MAN 1.5(1.5,0)
Management Foundations: PR: Graduate standing or C.I. Theory and practice of managing organizations to include planning, organizational theory, human behavior, and control. Fall, Spring.

MAN 5050 BA-MAN 2(2,0)

MAN 5867 BA-MAN 3(3,0)
Small Business Institute: PR: C.I. Hands-on small business consulting course. Students are assigned teams and work with a local small business. Even Fall, Even Spring.

MAP 2302 COS-MATH 3(3,0)

MAP 2302H COS-MATH 3(3,0)

MAP 3401 ECS-ENT 3(3,0)
Problem Analysis: PR: MAC 2311 or MAC 2253 or equivalent. Application of calculus techniques used in solving selected problems in Engineering Technology. Fall, Spring.

MAP 4103 COS-MATH 3(3,0)

MAP 4153 COS-MATH 3(3,0)
Vector and Tensor Analysis: PR: MAC 2313 or C.I. Vector calculus. The theorems of Green, Gauss and Stokes. Introduction to tensors. Application in engineering and physical sciences. Fall.

MAP 4171 COS-MATH 3(3,0)

MAP 4307 COS-MATH 3(3,0)

MAP 4363 COS-MATH 3(3,0)

MAP 4364 COS-MATH 3(3,0)

MAP 4371 COS-MATH 3(3,0)

MAP 5106 COS-MATH 3(3,0)
Introduction to Quantitative Aspects of Modeling and Simulation: PR: MAC 2523, graduate status or senior standing, or C.I. An introduction to calculus, matrix algebra, probability and statistics, and high level programming languages. A student who has mastered this content does not have to take this course. Occasional.

MAP 5117 COS-MATH 3(3,0)
Mathematical Modeling: PR: STA 4321, MAP 4363, graduate status or senior standing, or C.I. Introduction to modeling in industrial and scientific applications; techniques for studying statistical and deterministic models. Fall.

MAP 5336 COS-MATH 3(3,0)
Ordinary Differential Equations and Applications: PR: MAP 2302, and graduate status or senior standing or C.I. Existence and uniqueness of solutions of differential equations, systems of ordinary differential equations, autonomous systems, phase plane analysis, stability, bifurcations. Spring.

MAP 5385 COS-MATH 3(3,0)
Applied Numerical Mathematics: PR: MAP 2302, graduate status or senior standing, or C.I. Classical topics or numerical analysis and their applications, Romberg integration, Richardson extrapolation, Gaussian quadrature schemes. Spring.

MAP 5396 COS-MATH 3(3,0)
Splines and Data Fitting: PR: MAS 3106, MAS 3105, MAP 2302, and graduate status or senior standing or C.I. Univariate splines and their application to data fitting. Applications to regression analysis, differential and integral equations. Algorithms to use different types of splines in computation. Occasional.

MAP 5404 COS-MATH 3(3,0)
Mathematical Foundations for Industrial Engineering and Operations: PR: MAP 2302, ESI 5219 or equivalent, ESI 4312, and graduate status or senior standing or C.I. Methods of proof, set theory; basic elements of topology, real analysis, graph theory, and matrix analysis. Occasional.

MAP 5407 COS-MATH 3(3,0)

MAP 5426 COS-MATH 3(3,0)
Special Functions: PR: MAP 2302, and graduate status or senior standing or C.I. Series and integral representations, generating functions, recurrence relations and orthogonality properties of the special functions. Emphasis on Bessel, Legendre and hypergeometric functions. Occasional.

MAP 5435 COS-MATH 3(3,0)
Advanced Mathematics for Engineers: PR: MAP 2302, and graduate status or senior standing or C.I. Linear Algebra and matrix methods, ordinary differential equations, Fourier series, partial differential equations, numerical methods for differential equations, and applications to engineering. Occasional.
MAP 5514 COS-MATH 3(3,0)
Linear and Nonlinear Waves II: PR: MAP 2302, MAP 4363, and graduate status or senior standing, or C.I. Equations of motion in inviscous and viscous fluids, energy equation and energy flux, linear theory of gravity and capillary-gravity waves, variational principles for water waves. Occasional.

MAP 5931 COS-MATH 1(1,0)
Research Seminar: PR: Graduate status or senior standing or C.I. Four instructors will introduce the students to a research area by presenting necessary background and presenting current investigations. Different branches of mathematics will be presented for a sense of diversity. Occasional.

MAR 3023 BA-MAR 3(3,0)
Marketing: PR: Junior standing and appropriate major or minor. Study of functions, institutions, and basic problems in marketing of goods and services in our domestic economy and abroad. Fall, Spring.

MAR 3023H BA-MAR 3(3,0)
Marketing Honors: PR: Junior standing and business major or minor, permission of Honors. Honors introductory course in marketing. Topics include customer orientation, segmentation, positioning, strategic marketing management, implementation, and control. Fall.

MAR 3323 BA-MAR 3(3,0)
Integrated Marketing Communication: PR: Marketing major or minor, MAR 3023. Planning and execution of advertising, sales promotion, and public relations programs consistent with integrated marketing communications programs. Fall, Spring.

MAR 3391 BA-MAR 3(3,0)
Professional Selling: PR: Marketing major or minor, MAR 3023. Written and verbal communications skills applied to marketing settings. A significant portion of the course is devoted to the study of professional selling. Fall, Spring.

MAR 3403 BA-MAR 3(3,0)
Sales Force Management: PR: Marketing major or minor, MAR 3023. An overview of the sales management process. Emphasis on sales program formulation and implementation. Fall, Spring.

MAR 3503 BA-MAR 3(3,0)
Customer Behavior: PR: Marketing major or minor, MAR 3023. End user and business customer buying behavior, building long-term customer relationships, segmentation of markets and positioning strategies. Fall, Spring.

MAR 3613 BA-MAR 3(3,0)
Marketing Analysis and Research: PR: Appropriate major or minor, MAR 3023, and one of the following: ECO 3401, ECO 3411, STA 2023, STA 3032. Analytical tools and their application to marketing problems and decision making. Forecasting, financial analysis, and acquisition of primary data through market research are emphasized. Fall, Spring.

MAR 3641 BA-MAR 3(3,0)
Marketing Intelligence: PR: Marketing major or minor, MAR 3023. Contemporary sources and applications of information concerning external forces impacting market decision making. Fall, Spring.

MAR 3880 BA-MAR 3(3,0)
E-Marketing: PR: Marketing major or minor, MAR 3023, COS 2100C. Course provides an in-depth study of the role of the internet in developing marketing strategies and plans. Occasional.

MAR 4156 BA-MAR 3(3,0)
International Marketing: PR: Marketing major or minor, MAR 3023. Investigates strategy, policy and the variables in international marketing decisions. Fall, Spring.

MAR 4231 BA-MAR 3(3,0)
Retailing Management: PR: Marketing major or minor, MAR 3023. Analysis of the field of retailing. Emphasis on planning for profit through management, inventory control, etc. Occasional.

MAR 4392 BA-MAR 3(3,0)
Advanced Professional Selling: PR: MAR 3391 and Department Consent. Advanced study of the professional selling process, including team selling, negotiating, customer conflict management, and CRM systems. Fall.

MAR 4413 BA-MAR 3(3,0)
Strategic Issues in Sales: PR: MAR 3492 and MAR 3403. Advanced study of selected contemporary strategic issues in selling and sales management. Spring.

MAR 4711 BA-MAR 3(3,0)
Sport Marketing: PR: Appropriate major or minor, MAR 3023. Study of marketing as it applies to the sports and leisure industry. Occasional.

MAR 4712 BA-MAR 3(3,0)
Healthcare Marketing: PR: Marketing major or minor, MAR 3023. Study of marketing as it applies to healthcare manufacturers, intermediaries and providers. Occasional.

MAR 4715 BA-MAR 3(3,0)
Entertainment Marketing: PR: MAR 3023. Application of marketing theory and tools to the marketing of products and services in the entertainment industry. Occasional.

MAR 4724 BA-MAR 3(3,0)

MAR 4803 BA-MAR 3(3,0)
Marketing Management: PR: Marketing major or minor, MAR 3023 and MAR 3613. Planning, organizing, implementing and controlling marketing programs to effectively compete in dynamic and diverse business environments. Fall, Spring.

MAR 4804 BA-MAR 3(3,0)
Marketing Strategy: PR: Marketing major or minor, MAR 4803. Marketing problems are explored, with emphasis on strategy formulation and integrative marketing decision-making. Fall, Spring.

MAR 4841 BA-MAR 3(3,0)
Services Marketing: PR: Marketing major or minor, MAR 3023. Examination of marketing in services industries, with particular emphasis on unique aspects of services marketing, the service marketing mix, and the implementation of services strategies. Fall, Spring.

MAR 4941 BA-MAR 3(3,0)
Marketing Internship: PR: Marketing major, application approval, consent of department chair. Provides student with supervised, market-related work experience in a sponsoring organization. Application required. Fall, Spring.

MAR 5055 BA-MAR 1-3(1-3,0)
Marketing Foundations: PR: Acceptance into the graduate program. Study of functions, institutions, and basic marketing of goods in the U.S. economy. Fall, Spring.
Microorganisms producing disease in man and other ani-
pathogenesis.

depth overview of the fundamental aspects and current con-
protiens will be discussed in depth.

human gene therapy, novel pharmaceuticals, recombinant
Engineering/Biotechnology in Bacteria, Yeast, Viral,

MCB 5505C BCBS-M&M 3(3,0)
Molecular Virology: PR: MCB 3202C or C.I. Principles of Molecular Virology. Discussion of current theo-
cerns in modern virology including HIV, tumor viruses, DNA retrovirus disease, virus-host interaction, genome replication and pathogenesis. Occasional.

MCB 5527 BCBS-M&M 3(3,0)
Genetic Engineering and Biotechnology: PR: PCB 3522 and PCB 4524 or C.I. Principles of Genetic Engineering/Biotechnology in Bacteria, Yeast, Viral, Mammalian, Non-mammalian systems. Plants, including human gene therapy, novel pharmaceticals, recombinant proteins will be discussed in depth. Fall.

MCB 5654 BCBS-M&M 3(3,0)
Applied Microbiology: PR: MCB 3020C or C.I. Microbial biochemistry of industrial processes including: economics, screening, scale up, quality control and applied genetics. Occasional.

MCB 5932 BCBS-M&M Variable
Current Topics in Molecular Biology: PR: Graduate standing or C.I. Selected current research topics from the primary literature relating recent advances in molecular biology. May be repeated for credit. Occasional.

MGF 1106 COS-MATH 3(3,0)
Finite Mathematics: PR: Intermediate algebra or 2 years of high school algebra or C.I. Introduction to logical struct-
sets, probability, geometry, arrays, games. This course is intended for students who are not planning to take further courses in mathematics. Fall, Spring.

MHF 3302 COS-MATH 3(3,0)
Logic and Proof in Mathematics: PR: MAC 2311 or MAC 2312. Basic mathematical logic. Methods of proof in mathematics. Application of proofs to elementary mathem-
structures. Fall, Spring.

MHF 4404 COS-MATH 3(3,0)
History of Mathematics: PR: MAC 2312 or C.I. A chrono-
ological study of the evolution of mathematical thought from primitive counting through modern ideas of the 20th centu-
Recommended for prospective teachers in mathematics. Fall.

MHS 2330 ED-CFCS 3(3,0)
Career Planning: Introduction to career and life planning theories and concepts that assist students in applying these to their own lives. Odd Fall, Even Spring.

MHS 2441 ED-CFCS 3(3,0)
Marriage and Intimate Relationship: Examination of the dynamics of intimate relationships, dating, courtship and challenges of establishing stable and satisfying marriage, impact of divorce, premarital preparation and marital educa-
tional. Occasional.

MHS 5005 ED-CFCS 3(3,0)
Introduction to the Counseling Profession: PR: Completion of Phase II of Education Professional Preparation or C.I. Overview of the philosophy, organization, administration, and roles of counselors in various work settings. Fall, Spring.

MLS 3220C BCBS-M&M 3(3,3)
Techniques in Clinical Microscopy: Analysis of body fl-
ts and urine by chemical and microscopic methods with interpretation and correlation to human disease. Fall. M&S fee: $25.00.

MLS 3305 BCBS-M&M 3(3,0)
Hematology: PR: CHM 2210 and PCB 3703C. Overview of the hematopoietic system and disease states associated with blood and bone marrow. Spring.

MLS 3305L BCBS-M&M 1(0,6)
Hematology Lab: PR: MLS 3305. Practical laboratory pro-
cedures routinely performed for analyzing hematologic abnormalities. Spring.

MLS 3705 BCBS-M&M 3(3,0)
Concepts in Education/Management: PR: Admission to professional phase of the MLS Program or C.I. Introduction to laboratory management, health delivery systems, and educational practices in clinical settings. Spring.

MLS 4334 BCBS-M&M 3(3,0)
Hemostasis: PR: CHM 2210 and PCB 3703C. Overview of hemostatic and fibrinolytic conditions at the time of disease and the relationship of lab tests to diagnosis. Occasional.

MLS 4420C BCBS-M&M 1(1,2)
Clinical Mycology: PR: Admission to the professional phase of the MLS program with C.I. Instruction and labora-
tory practice in the isolation and identification of fungi assoc-
ated with mycotic infections of man. Occasional. M&S fee: $15.00.

MLS 4430C BCBS-M&M 2(1,3)
Clinical Parasitology: PR: Admission to the professional phase of the MLS program or C.I. Instruction and laborato-
ry practice in the examination and study of clinical material for the detection and identification of animal parasites. Even Fall. M&S fee: $15.00.

MLS 4460C BCBS-M&M 5(3,6)
Clinical Pathogenic Microbiology: PR: or C.I. MCB 3203 and admission to the professional phase of the MLS pro-
gram. Isolation and pathogenic bacteria and serological methods, interpretation of abnormal results, with correlation to disease. Spring. M&S fee: $45.00.

MLS 4505C BCBS-M&M 3(3,0)
Immunodiagnostics: PR: PCB 4323. Theory and applica-

MLS 4550 BCBS-M&M 4(2,6)
Clinical Immunohematology: PR: Admission to the pro-essional phase of the MLS program or C.I. Investigation of incompatible crossmatches; antibody identification, leuko-
ocyte antigens and identification procedures, problem solv-
ing. Spring. M&S fee: $15.00.

MLS 4625 BCBS-M&M 3(3,0)
Advanced Clinical Chemistry I: PR: CHM 2210. Correlation of lab test to specific disease states including deviations in carbohydrate, amino acid metabolism, renal function, gastric function, electolytes, and blood gases. Fall.

MLS 4625L BCBS-M&M 1(0,3)
Advanced Clinical Chem I Lab: PR: C.I. MLS 4625. Laboratory procedures routinely performed in a clinical chemistry laboratory. Fall.

MLS 4630 BCBS-M&M 3(3,0)
Advanced Clinical Chemistry II: PR: Admission to profes-
sional phase of MLS or C.I. Correlation of laboratory tests to specific human disease states. Spring.

MLS 4630L BCBS-M&M 1(0,3)
Advanced Clinical Chem II Lab: PR: CHM 2205 or C.I. CR: MLS 4630. Performance of laboratory procedures rou-
tinely used in a clinical chemistry laboratory. Occasional.

MLS 4830C BCBS-M&M 4(4,8)
Interpretive & Practical Clinical Chemistry: PR: Admission to the MLS program. MLS 4625. MLS 4630. Clinical instruction and practice in the clinical chemistry lab-
oratory. Case studies, chemist review, hands on practice both in the student lab and affiliate. Fall. M&S fee: $15.00.

MLS 4831C BCBS-M&M 4(4,8)
Interpretive & Practical Immunohematology: PR: Admission to the MLS program. MLS 4650. MLS 4650C. Advanced study of principles of immunohematology. Application and performance of technique to solve problems in blood banking will be included. Fall. M&S fee: $15.00.

MLS 4832C BCBS-M&M 4(4,8)
Interpretive & Practical Hematology: PR: Admission to the MLS program and MLS 4625. MLS 4630 and MLS 4634. Advanced study of hematology and pathophysiological correlation to hematology disorders. Correlation of case studies and clini-
cal practice in both student labs and clinical affiliates. Fall. M&S fee: $15.00.
UCF Courses and Descriptions

MLS 4833C BCBS-M&M 4(4.8)
Diagnostic Microbiology: PR: Admission to the MLS pro-
gram, MLS 4460C. Practical application of modern bacteri-
al procedures with clinical specimens to include mycology &
virology and appropriate quality control. Clinical practice in
both student lab and affiliate. Fall. M&S fee: $15.00

MLS 4834C BCBS-M&M 4(4.8)
Advanced Instrumentation: PR: Admission to the MLS
program, MLS 4833C. An examination review & practice of
technologies impacting the clinical laboratory to include flow
cytometry, PCR, LIS, robotics. Case studies will be a funda-
camental part of this course. Occasional.

MLS 4910 BCBS-M&M 1(1.0)
Introduction to Clinical Research: PR: MLS 3220C, MLS
4625, MLS 4550. Introduces MLS students to different types of
research within the clinical setting. Spring.

MLS 4933 BCBS-M&M 2(2.0)
Medical Technology Seminar: PR: MLS Senior status.
Review of MLS coursework, case study discussions and prepara-

MMC 2004 COS-COMM 3(3.0)
Mass Media: Introduction to the nation’s mass media, includ-
ing newspapers, radio, television, magazines, adver-
sising, and public relations. Fall, Spring.

MMC 3420 COS-COMM 3(3.0)
Mass Media Research Methods: PR: Communication major.
Theory and methods of research used by media profes-
sionals and academics, focusing on radio / TV and adver-
sising / public relations research. Fall, Spring.

MMC 4200 COS-COMM 3(3.0)
Mass Communication Law: PR: SPC 1600 or SPC 1016
and Junior standing. Legal rights and responsibilities of the
mass media. Fall, Spring.

MMC 4203 COS-COMM 3(3.0)
Journalism Ethics: PR: MMC 4200. Ethical problems, codes, and
practices in newsrooms. Occasional.

MMC 4254 COS-COMM 3(3.0)
Ad/Pr campaigns: PR: AD/PR majors only and ADV 3000,
PUR 4000 and either PUR 3100 or ADV 4101. Planning and
managing communication Campaigns that integrate both adver-
sising and public relations strategies. Even Fall, Odd
Spring.

MMC 4263 COS-COMM 3(3.0)
New Media Technologies: PR: Majors only, RTV 3200. An examination of the technologies impacting the communica-
tions media environment and society. Occasional.

MMC 4300 COS-COMM 3(3.0)
International Media: PR: Junior standing or C.I. The stud-
ent will analyze different communication systems from
around the world. There will be at least six case studies from
any of these areas - Asia, Latin American, Western Europe,
Middle East, Africa. Occasional.

MMC 4602 COS-COMM 3(3.0)
Contemporary Media Issues: PR: A minimum grade of "C" in
JOU 2100C. Relationship between the mass media and
society; examination of social and ethical issues and
responsibilities of the media’s relationship with government.
Even Spring.

MUC 4311 CAH-MUSIC 3(2.2)
MIDI Sequencing I: PR: Keyboard ability and reading
music or C.I. Utilization of synthesizers, drum machines,
and computers with MIDI sequencing software to create
music. Fall, Spring. M&S fee: $15.83

MUC 4106C CAH-MUSIC 2(1.1)
Composition IV: PR: MUC 3101C, MUC 2104C, MUC
3105C. Continuation of Composition III. Competence deter-
bined by faculty jury. Fall, Spring.

MUC 4313 CAH-MUSIC 3(3.0)
MIDI Sequencing II: PR: MUC 4441L. Junior standing or
C.I. Technical aspects of MIDI usage, including MIDI speci-
ification, sysex, and MIDI machine control. Occasional.

MUC 4441 CAH-MUSIC 3(3.0)
MIDI Sequencing III: PR: MUC 4441L, Junior standing, and
C.I. Continuation of sequencing, sampling, and inactive
digital music technology. Spring. M&S fee: $15.83

MUC 4611C CAH-MUSIC 3(2.1)
Computer Animation and Digital Music: PR: MUC 4441
or FIL 3286C and C.I. Music students and computer anima-
tion students work collaboratively to produce animation proj-
cts with original musical scores and sound effects.
Occasional.

MUC 4612C CAH-MUSIC 3(2,2)
Film/Video Composition: PR: MUC 1101C, MUC 2104C,
MUC 3311, MUC 4441L. Music composition for film, video,
computer games. Occasional.

MUE 1291 CAH-MUSIC 1(0.1)
Classroom Instruments: Instruction in recorder and guitar,
as it applies to classroom usage for music educators. Odd
Fall.

MUE 2040 CAH-MUSIC 2(2.0)
Introduction to Music Education: PR: None. An introduc-
tion to music education covering philosophy, history, and
current practice and trends. Observation in schools
required. Fall.

MUE 2211 ED-CFCS 3(3.0)
Early Childhood Music and Movement: An examination of the role of music and creative movement in the lives of
young children. Occasional.

MUC 2440 CAH-MUSIC 1(0.2)
String Techniques: PR: MUED major, junior standing or
C.I. Class instruction in string playing and pedagogical tech-
niques. Spring.

MUC 2450 CAH-MUSIC 1(1.0)
Woodwind Techniques I: PR: MUED major, Junior stand-
ing or C.I. Class instruction in woodwind playing and peda-
gogical techniques. Fall.

MUC 2460 CAH-MUSIC 1(0.2)
Brass Techniques: PR: MUED major, junior standing or
C.I. Class instruction in brass playing and pedagogical tech-
niques. May be repeated for credit. Fall.

MUC 2470 CAH-MUSIC 1(0.2)
Percussion Techniques: PR: MUED major, junior stand-
ing or C.I. Class instruction in percussion playing and peda-
gogical techniques. May be repeated for credit. Spring. M&S
fee: $35.00
MUE 3210 ED-TLP 3(2,1) Music in the Elementary School: Fundamental procedures for teaching elementary school music, stressing appropriate music materials and activities for different age groups; selected experience in music. Fall, Spring.

MUE 3451 CAH-MUSIC 1(1,0) Woodwind Techniques II: PR: MUE 2450, MUED major. Junior standing or C.I. Continuation of Woodwind Techniques I, with emphasis on double reeds. Occasional.

MUE 4311 ED-TLP 2(2,0) Elementary School Music Methods: PR: Junior standing, MUED major. Organization and administration of instruction for comprehensive music education, K-6; instructional planning, techniques, and materials for elementary music education. Fall.

MUE 4330 ED-TLP 2(2,0) Secondary School Music Methods: PR: MUE 4311 or C.I. Instructional planning, techniques and materials in middle school, junior high and senior high classrooms; consideration of general music education program, evaluation materials and procedures. Spring.


MUE 4480C CAH-MUSIC 1(1,1) Marching Band Techniques: PR: MUT 1112 and CI. Principles of organizing and training marching bands: Planning, charting football shows, rehearsal problems. Guided observations. May be repeated for credit. Fall.

MUE 4481 CAH-MUSIC 1(1,0) Jazz Pedagogy: PR: Music major, MUT 1112 and C.I. Methods, materials and resources for teaching jazz ensembles and improvisation at the secondary school level. Occasional.

MUE 4963 CAH-MUSIC 0(1,0) Music Education Pre-Professional Interview: PR: Internship I. Demonstration of comprehensive music education skills and knowledge. Graded S/U. May be repeated one time. Occasional.

MUE 5348C ED-TLP 4(4,0) K-12 Music Methods: PR: Graduate standing in Music Education or C.I. Organization and administration of instruction for comprehensive music education, K-12. Instructional planning, techniques, and materials for general, choral, and instrumental music education. Spring.

MUG 3014 CAH-MUSIC 2(1,1) Basic Conducting: Fundamental techniques and practice in conducting. Fall.

MUG 3002 CAH-MUSIC 2.0(1,0) Choral Conducting and Materials: PR: MUG 3014. Fundamental principles of choral conducting and rehearsal techniques including an examination of materials. Even Spring.


MUG 4103C CAH-MUSIC 2(1,1) Advanced Conducting: PR: C.I. Study of advanced vocal or instrumental conducting techniques. Rehearsal procedures, selection of materials and program-building. Interpretation of scores, study and performance of selected works. May be repeated for credit. Occasional.

MIX 2019 CAH-MUSIC 3(3,0) American Popular Music, 1840-present: Musical and cultural development of popular music in the United States from the 1840s to the present. Fall, Spring.

MIX 2071C CAH-MUSIC 1(0,1) World Music Survey and Performance Laboratory: PR: MUT 1112 or C.I. An introduction to different musical cultures including West African, Caribbean, South American, and Asian. Occasional.

MIX 3361 CAH-MUSIC 3(3,0) Music of the 19th Century: PR: MUG 4221 and MUH 4212 with grades of "C," 2.0, or higher in each. Western European art music from the era of C. 1790-1914. Odd Fall.

MIX 3622 CAH-MUSIC 3(3,0) Music and Ritual in East Asian Religions: PR: ENC 1102 and one of the following: REL 2300, HUM 2210, HUM 2230, MUL 2720, ANT 2000, ANT 2410, WOH 2012, WOH 2022. The aural and kinetic elements of religious ceremony, focusing on the interplay of music and ritual in Buddhism, Daoism, Confucianism, Shamanism. Occasional.

MIX 4211 CAH-MUSIC 3(3,0) History and Literature I: PR: MUT 1112. In-depth study of the development of Western musical styles from antiquity to the present. Fall.

MIX 4212 CAH-MUSIC 3(3,0) History and Literature II: PR: MUG 4211. Continuation of MIX 4211. Spring.

MIX 4218 CAH-MUSIC 1(1,0) Review of Music History: PR: C.I. A review of music history from Ancient Greece to the present. Occasional.


MIX 5345 CAH-MUSIC 3(3,0) Music of the Baroque: PR: Graduate standing in music or music education or C.I. Baroque music, 1600-1750. Investigates Baroque musical styles and composers within their diverse historical, musical, and cultural contexts. Even Spring.

MUL 2010 CAH-MUSIC 2(2,1) Enjoyment of Music: PR: Non-music majors only. Designed to develop an understanding of musical principles and techniques for listening to music. Fall, Spring.

MUL 2016 CAH-MUSIC 3(3,0) Evolution of Jazz: Survey of jazz literature and performance. Fall, Spring.

MUL 2017 CAH-MUSIC 3(3,0) Survey of Rock Music: Rise of rock music to prominence, and its impact on audience reception. No musical background required. Fall, Spring.

MUL 2720 CAH-MUSIC 3(3,0) Music of the World: Music in cross-cultural context. Relation of music to religion and society. Fall, Spring.

MUL 3381 CAH-MUSIC 3(3,0) Contemporary Popular Music: PR: MUL 2010 or MUT 1112 or C.I. History and analysis of selected genres in recent popular music. Music reading not required. Spring.

MUL 3400 CAH-MUSIC 2(1,1) Piano Literature I: PR: Major in Music or C.I. Survey of stringed keyboard literature from the 18th century to the present, with emphasis on technical, formal and performance problems. Odd Fall.

MUL 3401 CAH-MUSIC 2(1,1) Piano Literature II: PR: MUL 3400. Continuation of MUL 3400. Even Spring.

MUL 3432 CAH-MUSIC 2(2,0) String Literature: PR: Music major and C.I. Survey of string solo/chamber music literature from the 16th century to the present. Odd Fall.

MUL 3441 CAH-MUSIC 2(2,0) Woodwind Literature: PR: Junior standing, C.I. Music major. Survey of woodwind literature from the 16th century to the present. Even Fall.

MUL 3442 CAH-MUSIC 2(2,0) Brass Literature: PR: Music major (Brass), Junior standing, C.I. Survey of brass solo/ensemble literature from 16th century to present. Even Fall.

MUL 3463 CAH-MUSIC 2(2,0) Percussion Literature: PR: Music major (Percussion), Junior standing, C.I. Survey of music written for percussion instruments. Odd Fall.

MUL 3603 CAH-MUSIC 1(1,1) American/English Song Literature: PR: C.I. Survey of songs written by American or English composers. Even Spring.

MUL 3604 CAH-MUSIC 1(1,1) German Song Literature: PR: Music major or C.I. Survey of German song literature. Odd Spring.

MUL 3605 CAH-MUSIC 1(1,1) French Song Literature: PR: Music major or C.I. Survey of French song literature. Odd Fall.

MUL 5806 CAH-MUSIC 3(3,0) Performing Arts Management: PR: Graduate status or senior standing or C.I. Structure of nonprofit performing arts organization (PAOs), examining the fundamental elements of administration, audience development, marketing, and fund-raising. Spring.

MUN 2023 CAH-MUSIC 1(0,2) Synthesizer Ensemble: PR: C.I. and keyboard ability. Rehearsal and performance of music for synthesizers. May be repeated for credit. Occasional.

MUN 2442 CAH-MUSIC 1(1,0) Percussion/Mallet Ensemble: PR: C.I. Preparation and performance of music for percussion with mallets. May be repeated for credit. Fall.
MUN 3113 CAH-MUSIC 2(0,8)
Marching Band: PR: Admission by audition. Preparation for appearance at football games and special occasions. May be repeated for credit. Fall. M&S fee: $36.54

MUN 3123 CAH-MUSIC 1(0,3)
Concert Band: Open to all students with audition. Study and performance of music for large ensembles. May be repeated for credit. Fall, Spring. M&S fee: $10.00

MUN 3143 CAH-MUSIC 1(0,4)
Wind Ensemble: Open to all students by audition. Study and performance of music for wind ensemble and band. May be repeated for credit. Fall, Spring, M&S fee: $10.00

MUN 3283 CAH-MUSIC 1(0,5)
Symphony Orchestra: PR: Audition. Open to all students by audition. Rehearsal and performance of works from the symphonic repertoire. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 3313 CAH-MUSIC 1(3,0)
University Choir: PR: C.I. Open to all students by audition. Study and performance of large ensemble music. Possible tours. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 3343 CAH-MUSIC 1(0,3)
Madrigal Singers: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Fall, Spring, M&S fee: $5.00

MUN 3423 CAH-MUSIC 1(0,2)
Woodwind Ensemble: PR: C.I. Open to all students. Study and performance of music for woodwind ensemble. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 3430 CAH-MUSIC 1(1,0)
Trumpet Ensemble: PR: C.I. Rehearsal and performance of music for trumpet ensembles. May be repeated for credit. Fall. Occasional. M&S fee: $5.00

MUN 3433 CAH-MUSIC 1(0,2)
Brass Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 3443 CAH-MUSIC 1(0,2)
Percussion Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Fall, Spring. M&S fee: $35.00

MUN 3444 CAH-MUSIC 1(1,0)
Mallet Ensemble: PR: C.I. Preparation and performance of music for mallet ensemble. May be repeated for credit. Fall, Odd Spring. M&S fee: $35.00

MUN 3453 CAH-MUSIC 1(0,3)
Piano Ensemble: PR: Open to Music Majors or C.I. Study and performance of music for small ensembles. May be repeated for credit. Fall, Spring.

MUN 3483 CAH-MUSIC 1(0,2)
String Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 3713 CAH-MUSIC 1(0,4)
Jazz Lab: PR: C.I. Open to all students by audition. Study and performance of music for small ensembles. May be repeated for credit. Fall, Spring. M&S fee: $8.00

MUN 3714 CAH-MUSIC 1(0,2)
Jazz Combo: PR: Junior standing and C.I. Rehearsal and performance of music for small jazz combo, emphasizing improvisation. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 3717 CAH-MUSIC 1(0,3)
Jazz/Pop Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Occasional.

MUN 3723 CAH-MUSIC 1(0,3)
Vocal Jazz Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Occasional.

MUN 3813 CAH-MUSIC 1(1,1)
Steel Drum Ensemble: PR: C.I. Rehearsal and performance of music arranged for steel drum band. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 4476 CAH-MUSIC 1(0,2)
Early Music Ensemble: PR: C.I. Study and performance of pre-classical music. May be repeated for credit. Fall, Spring. M&S fee: $5.00

MUN 4476 CAH-MUSIC 1(0,2)
Opera Skills: PR: Open to all students by audition. Integration of singing, acting, and movement in opera. Explores basic stage movement, character preparation, and performance of opera arias. Fall.

MUN 3503 CAH-MUSIC 1(0,3)
Opera Workshop: PR: MUN 2501C, or C.I., and audition. Study, preparation, and performance of opera literature. May be repeated for credit. Fall.

MUS 1010 CAH-MUSIC 0(9,9)
Music Forum: A series of special musical events required of music majors. Includes lectures and recitals by faculty, students, and guest artists. Graded SU. May be repeated for credit. Fall, Spring.

MUS 1201 CAH-MUSIC 1(1,0)
European Diction: A survey of French, German and Italian diction for music educators. Even Fall.

MUS 1952C CAH-MUSIC 3(3,0)

MUS 2360C CAH-MUSIC 3(2,2)
Introduction to Music Technology: PR: Music or Digital Media major or C.I. Utilization of computers and keyboards to acquire skills in MIDI sequencing, notation, CDs, and the Internet. Fall, Spring. M&S fee: $15.83

MUS 3953 CAH-MUSIC 0(1,0)
Recital Performance I: PR: Junior Level Applied Music and C. I. Public recital of 30 minutes to demonstrate performance skills. Graded SU. May repeat one time. Fall, Spring.

MUS 4293 CAH-MUSIC 1(1,0)
Music Theatre Ensemble: PR: Junior standing and C.I. Rehearsal, study, and preparation of musical theatre score for pit orchestra and off-stage singers, culminating in public performance with University Theatre. May be repeated for credit. Occasional.

MUS 4330 CAH-MUSIC 2(1,1)

MUS 4347C CAH-MUSIC 3(2,2)
Digital Notation: PR: MUC 3311. Work on projects utilizing computer notation software applications. Spring. M&S fee: $15.83

MUS 4401 CAH-MUSIC 2(1,1)
Studio Teaching: PR: C.I. Management of the music studio; responsibilities and techniques of private instruction for the studio teacher; principles of psychology of music. May be repeated for credit. Occasional.

MUS 4531 CAH-MUSIC 5(3,2)
Digital Music Project: PR: MUC 3311 and MUC 4411, or C.I. Individual work on media related audio projects with emphasis on artist/technical skills. Occasional.

MUS 4635C CAH-MUSIC 3(2,2)

MUS 4645C CAH-MUSIC 3(2,2)
Music Production Techniques: PR: MUC 3311, MUC 4411, MUC 4612C, MUS 4615C. Audio and video film post production process with the video recording format. Audio and multi-media technologies will be used in the synchronization of SMPTE time code. Occasional.

MUS 4905 CAH-MUSIC 1-4(1-4)
Directed Experience: PR: C.I. and Junior standing. Special topics of study and/or research as determined by student/faculty consultation. May be repeated for credit. Occasional.

MUS 4954 CAH-MUSIC 0(1,0)
Recital Performance II: PR: Senior level applied music and C.I. Public recital of 45 minutes to demonstrate performance skills. Graded SU. May repeat one time. Fall, Spring.

MUS 5365 CAH-MUSIC 3(3,0)
Music and Technology: PR: Graduate status or senior standing, or C.I. The emergence of technology in music including MIDI, CD ROM, and the high-tech music classroom. Occasional.

MUT 1004 CAH-MUSIC 3(3,0)

MUT 1004 CAH-MUSIC 3(3,0)
Fundamentals of Music I: Basic music theory and reading music at the keyboard. Fall.

MUT 1111 CAH-MUSIC 2(2,1)

MUT 1112 CAH-MUSIC 2(2,1)

MUT 1241 CAH-MUSIC 1(0,2)
Ear Training and Sight Singing IA: Aural and visualational sophistication of elements of music - rhythm, melody, harmony, form. Intended to be taken with MUT 1111. Fall, Spring.
### Mut 1242 CAH-MUSIC 1(0,2)
**Ear Training and Sight Singing Ib**: PR: Mut 1241. Continuation of Mut 1241. Intended to be taken with Mut 1112. Spring.

### Mut 2116 CAH-MUSIC 2(2,1)
**Music Theory Iia**: PR: Mut 1112, CR: Mut 2246. Continuation of Mut 1111-1112; writing, performance, and analysis of music of various stylistic periods. Fall.

### Mut 2117 CAH-MUSIC 2(2,1)

### Mut 2246 CAH-MUSIC 1(0,2)
**Ear Training and Sight Singing Ia**: PR: Mut 1242. Continuation of Mut 1242. Intended to be taken with Mut 2116. Fall.

### Mut 2247 CAH-MUSIC 1(0,2)
**Ear Training and Sight Singing Iib**: PR: Mut 2246. Continuation of Mut 2246. Intended to be taken with Mut 2117. Spring.

### Mut 2960 CAH-MUSIC 0(1,0)

### Mut 2961 CAH-MUSIC 0(1,0)

### Mut 2962 CAH-MUSIC 0(1,0)

### Mut 3170 CAH-MUSIC 2(1,1)
**Jazz Theory I**: PR: Mut 1111, Mut 1112, Mut 1241, Mut 1242. Examine traditional harmony, melody, and rhythm. Even Fall.

### Mut 3171 CAH-MUSIC 2(1,1)
**Jazz Theory Ii**: PR: Mut 3170. Continuation of Jazz Theory I; examining jazz harmony, melody, and rhythm. Odd Spring.

### Mut 3401 CAH-MUSIC 3(3,0)
**Counterpoint**: PR: Mut 2127. Discuss, analyze, and write counterpoint exercises. 18th, 19th, and 20th scores will be examined. Even Spring.

### Mut 3571 CAH-MUSIC 3(3,0)
**20th Century Musical Analysis**: PR: Mut 2116 and Mut 2117 or equivalent. Overview of 20th century music, including musical compositions, techniques of musical analysis, and styles. Fall.

### Mut 3622 CAH-MUSIC 3(3,0)
**Analytical Approaches to Musical Rhythm**: PR: Mut 2117 or equivalent or C.I. Contemporary, cognitive, hypermetric, and projective approaches to musical rhythm, rhythm in dance, performance, and non-Western music. Occasional.

### Mut 3641 CAH-MUSIC 2(0,2)
**Jazz Improvisation I**: PR: Mut 3171, Junior standing or C.I. Jazz improvisation with an emphasis on listening, harmony, arranging, and jazz forms. Melodic and harmonic dictation at the keyboard. Odd Fall.

### Mut 3642 CAH-MUSIC 2(0,2)
**Jazz Improvisation II**: PR: Mut 3641 Junior standing or C.I. A continuation of Jazz Improvisation I. Even Spring.

### Mut 4031 CAH-MUSIC 1(1,0)
**Review of Music Theory**: PR: C.I. A comprehensive overview of harmonic and analytic skills. May be repeated for credit. Occasional.

### Mut 4344 CAH-MUSIC 1(1,0)
**Seminar in Music Arranging**: C.I. Scoring for choral and instrumental ensembles. Occasional.

### Mut 5381 CAH-MUSIC 3(3,0)
**Arranging and Composing Music**: PR: Satisfactory placement tests in theory, sight-singing, and ear training, and graduate status or senior standing or C.I. Arranging and composing music for instrumental and vocal ensembles. Some emphasis on compositional techniques of the 20th century. Even Fall.

### Mut 1211 CAH-MUSIC 1(0,1)
**Secondary Trumpet**: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trumpet. Intended for non-music majors. May be repeated for credit. Fall, Spring.

### Mut 1212 CAH-MUSIC 1(0,1)
**Secondary French Horn**: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in French Horn. Intended for non-music majors. May be repeated for credit. Fall, Spring.

### Mut 1213 CAH-MUSIC 1(0,1)
**Secondary Trombone**: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trombone. Intended for non-music majors. May be repeated for credit. Fall, Spring.

### Mut 1215 CAH-MUSIC 1(0,1)
**Secondary Tuba**: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in tuba. Intended for non-music majors. May be repeated for credit. Fall, Spring.

### Mut 1411 CAH-MUSIC 2(1,1)
**Trumpet I**: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

### Mut 1412 CAH-MUSIC 2(1,1)
**French Horn I**: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

### Mut 1413 CAH-MUSIC 2(1,1)
**Trombone I**: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

### Mut 1414 CAH-MUSIC 2(1,1)
**Baritone I**: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

### Mut 1415 CAH-MUSIC 2(1,1)
**Tuba I**: PR: Major in music or consent of chair; audition. May be repeated for credit. Even Fall, Spring.

### Mut 2421 CAH-MUSIC 2(1,1)
**Trumpet II**: PR: Mut 1411 and competence determined by faculty jury. Continuation of Mut 1411. May be repeated for credit. Fall, Spring.

### Mut 2422 CAH-MUSIC 2(1,1)
**French Horn II**: PR: Mut 1412 and competence determined by faculty jury. Continuation of Mut 1412. May be repeated for credit. Fall, Spring.

### Mut 2423 CAH-MUSIC 2(1,1)
**Trombone II**: PR: Mut 1413 and competence determined by faculty jury. Continuation of Mut 1413. May be repeated for credit. Fall, Spring.

### Mut 2424 CAH-MUSIC 2(1,1)
**Baritone II**: PR: Mut 1414 and competence determined by faculty jury. Continuation of Mut 1414. May be repeated for credit. Fall, Spring.

### Mut 2425 CAH-MUSIC 2(1,1)
**Tuba II**: PR: Mut 1415 and competence determined by faculty jury. Continuation of Mut 1415. May be repeated for credit. Fall, Spring.

### Mut 3431 CAH-MUSIC 2(1,1)
**Second Trombone**: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trombone. Intended for non-music majors. May be repeated for credit. Fall, Spring.

### Mut 3432 CAH-MUSIC 2(1,1)
**Second French Horn**: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in French Horn. Intended for non-music majors. May be repeated for credit. Fall, Spring.

### Mut 3433 CAH-MUSIC 2(1,1)
**Second Baritone**: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in baritone. Intended for non-music majors. May be repeated for credit. Fall, Spring.

### Mut 3434 CAH-MUSIC 2(1,1)
**Second Tuba**: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in tuba. Intended for non-music majors. May be repeated for credit. Fall, Spring.

### Mut 3435 CAH-MUSIC 2(1,1)
**Tuba III**: PR: Mut 1425 and competence determined by faculty jury. Continuation of Mut 1425. May be repeated for credit. Fall, Spring.

### Mut 4441 CAH-MUSIC 2(1,1)
**Trumpet III**: PR: Mut 1421 and competence determined by faculty jury. Continuation of Mut 1421. May be repeated for credit. Fall, Spring.

### Mut 4442 CAH-MUSIC 2(1,1)
**French Horn III**: PR: Mut 1422 and competence determined by faculty jury. Continuation of Mut 1422. May be repeated for credit. Fall, Spring.

### Mut 4443 CAH-MUSIC 2(1,1)
**Trombone III**: PR: Mut 1423 and competence determined by faculty jury. Continuation of Mut 1423. May be repeated for credit. Fall, Spring.

### Mut 4444 CAH-MUSIC 2(1,1)
**Baritone III**: PR: Mut 1424 and competence determined by faculty jury. Continuation of Mut 1424. May be repeated for credit. Fall, Spring.

### Mut 4445 CAH-MUSIC 2(1,1)
**Tuba III**: PR: Mut 1425 and competence determined by faculty jury. Continuation of Mut 1425. May be repeated for credit. Fall, Spring.

### Mut 4640 CAH-MUSIC 2(2,0)
**Brass Pedagogy**: PR: Music major and C.I. Methods and materials for teaching instruments in a small group or studio setting. Odd Spring.
MVB 5451 CAH-MUSIC 2(1,0)
Trumpet V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVB 5452 CAH-MUSIC 2(1,0)
French Horn V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVB 5453 CAH-MUSIC 2(1,0)
Trombone V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVB 5454 CAH-MUSIC 2(1,0)
Baritone V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVB 5455 CAH-MUSIC 2(1,0)
Tuba V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVK 1111 CAH-MUSIC 1(0,2)
Class Piano I: I. Class instruction for beginning piano students. Not open to music majors whose major performing medium is piano. Fall, Spring.

MVK 1211 CAH-MUSIC 1(0,1)

MVK 1213 CAH-MUSIC 1(1,1)

MVK 1411 CAH-MUSIC 2(1,1)
Piano I: PR: Major in music or consent of chairperson; audition. May be repeated for credit. Fall, Spring.

MVK 1413 CAH-MUSIC 2(1,1)
Organ I: PR: Major in music or consent of chairperson; audition. May be repeated for credit. Occasional.

MVK 1800 CAH-MUSIC 2(2,0)
Keyboard Class I: Keyboard training for non-Music students with no prior keyboard training. Fall, Spring.

MVK 1801 CAH-MUSIC 2(2,0)
Keyboard Class II: PR: MVK 1800. Continuation of Keyboard class I. Occasional.

MVK 2121 CAH-MUSIC 1(0,2)
Class Piano II: PR: MVK 1111 or C.I. Continuation of MVK 1111. Not open to music majors whose major performing medium is piano. Fall, Spring.

MVK 2421 CAH-MUSIC 2(1,1)
Piano II: PR: MVK 1411 and competence determined by faculty jury. Continuation of MVK 1411. May be repeated for credit. Fall, Spring.

MVK 2423 CAH-MUSIC 2(1,1)
Organ II: PR: MVK 1413 and competence determined by faculty jury. Continuation of MVK 1413. May be repeated for credit. Occasional.

MVK 3131 CAH-MUSIC 1(0,2)
Class Piano III: PR: MVK 1121 or C.I. Continuation of MVK 1121. Fall, Spring.

MVK 3431 CAH-MUSIC 2(1,1)
Piano III: PR: MVK 2421 and competence determined by faculty jury. Continuation of MVK 2421. May be repeated for credit. Fall, Spring.

MVK 3433 CAH-MUSIC 2(1,1)
Organ III: PR: MVK 2423 and competence determined by faculty jury. Continuation of MVK 2423. May be repeated for credit. Occasional.

MVK 4141 CAH-MUSIC 1(0,2)
Class Piano IV: PR: MVK 1131 or C.I. Continuation of MVK 1131. Fall, Spring.

MVK 4441 CAH-MUSIC 2(1,1)
Piano IV: PR: MVK 3431 and competence determined by faculty jury. Continuation of MVK 3431. May be repeated for credit. Fall, Spring.

MVK 4443 CAH-MUSIC 2(1,1)
Organ IV: PR: MVK 3433 and competence determined by faculty jury. Continuation of MVK 3433. May be repeated for credit. Occasional.

MVK 4640 CAH-MUSIC 1(1,0)
Piano Pedagogy I: PR: C.I. Methods, materials for teaching individuals and classes of children and adults beginning to intermediate levels; demonstration and observation of procedures. May be repeated for credit. Even Fall.

MVK 4641 CAH-MUSIC 1(1,0)
Piano Pedagogy II: PR: C.I. Continuation of MVK 4640. Emphasis on intermediate through advanced levels. May be repeated for credit. Odd Spring.

MVK 4960 CAH-MUSIC 0(1,0)

MVP 5451 CAH-MUSIC 2(1,0)
Piano V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVP 5453 CAH-MUSIC 2(1,0)
Organ V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Occasional.

MVS 1211 CAH-MUSIC 1(0,1)

MVS 1212 CAH-MUSIC 1(0,1)

MVS 1213 CAH-MUSIC 1(0,1)

MVS 1214 CAH-MUSIC 1(0,1)

MVS 1216 CAH-MUSIC 1(0,1)

MVS 1411 CAH-MUSIC 2(1,1)
Violin I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1412 CAH-MUSIC 2(1,1)
Violin I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1413 CAH-MUSIC 2(1,1)
Cello I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1414 CAH-MUSIC 2(1,1)
Bass I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1415 CAH-MUSIC 2(1,1)
Harp I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Department</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVS 1416</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Guitar I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 2421</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Violin I: PR: MVS 1411 and competence determined by faculty jury. Continuation of MVS 1412. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 2422</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Viola I: PR: MVS 1412 and competence determined by faculty jury. Continuation of MVS 1411. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 2423</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Cello I: PR: MVS 1413 and competence determined by faculty jury. Continuation of MVS 1413. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 2424</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Bass I: PR: MVS 1414 and competence determined by faculty jury. Continuation of MVS 1414. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 2425</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Harp I: PR: MVS 1415 and competence determined by faculty jury. Continuation of MVS 1415. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 2426</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Guitar II: PR: MVS 1416 and competence determined by faculty jury. Continuation of MVS 1416. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 3431</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Violin II: PR: MVS 2422 and competence determined by faculty jury. Continuation of MVS 2422. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 3432</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Viola II: PR: MVS 2421 and competence determined by faculty jury. Continuation of MVS 2421. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 3433</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Cello II: PR: MVS 2423 and competence determined by faculty jury. Continuation of MVS 2423. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 3434</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Bass II: PR: MVS 2424 and competence determined by faculty jury. Continuation of MVS 2424. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 3435</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Harp II: PR: MVS 2425 and competence determined by faculty jury. Continuation of MVS 2425. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 3436</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Guitar III: PR: MVS 2426 and competence determined by faculty jury. Continuation of MVS 2426. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 4441</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Violin IV: PR: MVS 3431 and competence determined by faculty jury. Continuation of MVS 3431. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 4442</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Viola IV: PR: MVS 3432 and competence determined by faculty jury. Continuation of MVS 3432. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 4443</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Cello IV: PR: MVS 3433 and competence determined by faculty jury. Continuation of MVS 3433. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 4444</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Bass IV: PR: MVS 3434 and competence determined by faculty jury. Continuation of MVS 3434. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 4445</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Harp IV: PR: MVS 3435 and competence determined by faculty jury. Continuation of MVS 3435. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 4446</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Guitar IV: PR: MVS 3436 and competence determined by faculty jury. Continuation of MVS 3436. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 4447</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Viola V: PR: MVS 3437 and competence determined by faculty jury. Continuation of MVS 3437. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 4448</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Cello V: PR: MVS 3438 and competence determined by faculty jury. Continuation of MVS 3438. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 5451</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Violin V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 5452</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Viola V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 5453</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Cello V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 5454</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Bass V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 5455</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Harp V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 5456</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Guitar V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 1111</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Class Voice: Class instruction in beginning voice. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 1411</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Voice I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 1873</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Voice: Consent of Music Chair. PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in voice. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 2322</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Singing Broadway: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in voice. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 2421</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Voice II: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in voice. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 3431</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Voice III: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in voice. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 4441</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Voice IV: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in voice. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVV 4640</td>
<td>CAH-MUSIC</td>
<td>1(1,0)</td>
<td>Voice Pedagogy: Consent of Music Chair. CR: Consent of Music Chair. Methods, materials for vocalists, teachers, conductors; voice production; problems and correction; demonstration and observation of teaching; beginning to intermediate levels. May be repeated for credit. Even Fall.</td>
</tr>
<tr>
<td>MVV 4641</td>
<td>CAH-MUSIC</td>
<td>1(1,0)</td>
<td>Voice Pedagogy II: Consent of Music Chair. CR: Consent of Music Chair. Methods, materials for intermediate levels. May be repeated for credit. Odd Spring.</td>
</tr>
<tr>
<td>MVV 5451</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Voice V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1111</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Flute: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in flute. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1211</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Oboe: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in oboe. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1212</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Bassoon: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in bassoon. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1213</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Clarinet: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in clarinet. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1214</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Saxophone: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in saxophone. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1215</td>
<td>CAH-MUSIC</td>
<td>1(0,1)</td>
<td>Secondary Saxophone: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in saxophone. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1411</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Flute I: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1412</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Flute II: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVW 1413</td>
<td>CAH-MUSIC</td>
<td>2(1,1)</td>
<td>Clarinet I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.</td>
</tr>
</tbody>
</table>
MWW 1414 CAH-MUSIC 2(1,1) Bassoon I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring. M&S fee: $20.00

MWW 1415 CAH-MUSIC 2(1,1) Saxophone I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MWW 2421 CAH-MUSIC 2(1,1) Flute I: PR: MWW 1411 and competence determined by faculty jury. Continuation of MWW 1411. May be repeated for credit. Fall, Spring.

MWW 2422 CAH-MUSIC 2(1,1) Oboe II: PR: MWW 1412 and competence determined by faculty jury. Continuation of MWW 1412. May be repeated for credit. Fall, Spring.

MWW 2423 CAH-MUSIC 2(1,1) Clarinet II: PR: MWW 1413 and competence determined by faculty jury. Continuation of MWW 1413. May be repeated for credit. Fall, Spring.

MWW 2424 CAH-MUSIC 2(1,1) Bassoon II: PR: MWW 1414 and competence determined by faculty jury. Continuation of MWW 1414. May be repeated for credit. Fall, Spring. M&S fee: $20.00

MWW 2425 CAH-MUSIC 2(1,1) Saxophone II: PR: MWW 1415 and competence determined by faculty jury. Continuation of MWW 1415. May be repeated for credit. Fall, Spring.

MWW 3431 CAH-MUSIC 2(1,1) Flute III: PR: MWW 2421 and competence determined by faculty jury. Continuation of MWW 2421. May be repeated for credit. Fall, Spring.

MWW 3432 CAH-MUSIC 2(1,1) Oboe III: PR: MWW 2422 and competence determined by faculty jury. Continuation of MWW 2422. May be repeated for credit. Fall, Spring.

MWW 3433 CAH-MUSIC 2(1,1) Clarinet III: PR: MWW 2423 and competence determined by faculty jury. Continuation of MWW 2423. May be repeated for credit. Fall, Spring.

MWW 3434 CAH-MUSIC 2(1,1) Bassoon III: PR: MWW 2424 and competence determined by faculty jury. Continuation of MWW 2424. May be repeated for credit. Fall, Spring.

MWW 3435 CAH-MUSIC 2(1,1) Saxophone III: PR: MWW 2425 and competence determined by faculty jury. Continuation of MWW 2425. May be repeated for credit. Fall, Spring.

MWW 3630 CAH-MUSIC 2(2,0) Woodwind Pedagogy: PR: C.I. Methods, materials for teaching individuals and woodwind ensembles. Even Fall.

MWW 4441 CAH-MUSIC 2(1,1) Flute IV: PR: MWW 3431 and competence determined by faculty jury. Continuation of MWW 3431. May be repeated for credit. Fall, Spring.

MWW 4442 CAH-MUSIC 2(1,1) Oboe IV: PR: MWW 3432 and competence determined by faculty jury. Continuation of MWW 3432. May be repeated for credit. Fall, Spring.

MWW 4443 CAH-MUSIC 2(1,1) Clarinet IV: PR: MWW 3433 and competence determined by faculty jury. Continuation of MWW 3433. May be repeated for credit. Fall, Spring.

MWW 4444 CAH-MUSIC 2(1,1) Bassoon IV: PR: MWW 3434 and competence determined by faculty jury. Continuation of MWW 3434. May be repeated for credit. Fall, Spring.

MWW 4445 CAH-MUSIC 2(1,1) Saxophone IV: PR: MWW 3435 and competence determined by faculty jury. Continuation of MWW 3435. May be repeated for credit. Fall, Spring.

MWW 5451 CAH-MUSIC 2(1,0) Flute V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MWW 5452 CAH-MUSIC 2(1,0) Oboe V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MWW 5453 CAH-MUSIC 2(1,0) Clarinet V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MWW 5454 CAH-MUSIC 2(1,0) Bassoon V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MWW 5455 CAH-MUSIC 2(1,0) Saxophone V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

NGR 5003 HPA-NURS 2(2,0) Advanced Health Assessment and Diagnostic Reasoning: PR: or CR: NGR 5141; CR: NGR 5004L. Concepts and skills of advanced health assessment over the lifespan. Application of the diagnostic reasoning process through differential diagnoses. Fall, Spring.

NGR 5004L HPA-NURS 1(0,1) Advanced Health Assessment and Diagnostic Reasoning (Lab): PR: or CR: NGR 5141; CR: NGR 5003. Application of concepts and skills for advanced health assessment and diagnostic reasoning over the lifespan. Graded S/U. Fall, Spring. M&S fee: $48.00

NGR 5090 HPA-NURS 3(3,0) Urgent Care for the Advanced Practice Nurse: PR: NGR 6240 or C.I. Advanced practice evaluation and management of clients in urgent care settings. Occasional.

NGR 5141 HPA-NURS 3(3,0) Pathophysiological Bases for Advanced Nursing Practice: PR: Baccalaureate Degree in Nursing. Critical examination of the physiological and pathophysiological mechanisms affecting individuals. Fall, Spring.

NGR 5195C HPA-NURS 3(2,1) International Perspectives of Global Health: PR: Graduate standing or C.I. An analysis of global health in comparison with that of USA and other nation's health care systems. Occasional.

NGR 5252 HPA-NURS 3(3,0) Psycho-Social Factors and Health Care Outcomes in the Elderly: PR: Post-baccalaureate or graduate status or C.I. Interdisciplinary perspective to examine the relationship between client characteristics, client health care provider interactions and health care outcomes in the elderly. Occasional.

NGR 5635 HPA-NURS 3(3,0) Transdisciplinary and Community-Based Strategies of Health Professionals: PR: Graduate standing or C.I. A study of healthcare issues and strategies encountered by speech-language pathologists and nurse practitioners when promoting transdisciplinary and collaborative interactions. Occasional.

NGR 5637 HPA-NURS 3(3,0) Advanced Practice Nursing in Rural Settings: PR: Graduate student in COHPA. Focus is on advance practice nursing in rural environments and delivery services within constraints of sparse resources and geographical remoteness. Occasional.

NGR 5638 HPA-NURS 3(3,0) Health Disparities: Issues and Strategies: PR: Graduate standing. Explores disparities in access, utilization, services, outcomes, and status for different US populations; data, research, programmatic issues, and strategies to close the gaps. Occasional.

NGR 5714 HPA-NURS 3(3,0) Clinical Teaching Strategies for Health Professional Education: PR: EDG 6236 or Teaching Strategies for Health Professionals, or C.I. Analysis of effective teaching learning strategies with emphasis on developing techniques for teaching through technology resources. Spring.

NGR 5720 HPA-NURS 3(3,0) Organizational Dynamics: PR: Baccalaureate Degree in Nursing or C.I. Analysis of organizational theories related to health care organizations and the use of leadership, communication and power to influence health care delivery and policy. Fall.

NGR 5744 HPA-NURS 1(1,0) Health Care Systems, Policy and Health Professionals: PR: Admission to the MSN program or C.I. Examine social responses to health and illness, health care systems and policies and the role of advanced practice nurses. Fall, Spring.

NGR 5745 HPA-NURS 1(1,0) Professional Obligations and Activities of Advanced Practice Nursing: PR: NGR 5746 (Roles and Issues in Advanced Practice Nursing). Examine professional obligations of advanced practice nursing. Opportunity to develop skills for taking certification exam. Fall, Spring.

NGR 5746 HPA-NURS 1(1,0) Cultural, legal, ethical, and political issues of Advanced Practice Nursing: PR: Baccalaureate degree in Nursing. Examine legal, ethical and political issues related to advanced practice nursing. Fall, Spring.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Hours</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3637L</td>
<td>Accelerated Promoting Healthy Families and Communities: PR: Admission to Accelerated Second Degree BSN Option; NUR 3065, NUR 3065L, NUR 3825, NUR 3837L; Application of concepts of community and community nursing as it relates to health across the lifespan including childbearing, childrearing, childhood, adulthood, and aging.</td>
<td>5,5(0)</td>
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</tr>
<tr>
<td>NUR 3637</td>
<td>Promoting Healthy Communities: PR: Admission to the School of Nursing. Exploration of community-oriented nursing practice, including epidemiological, community health, nursing, economic, and health care system perspectives. May be repeated for credit.</td>
<td>3,0(0)</td>
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<td></td>
</tr>
<tr>
<td>NUR 3630L</td>
<td>Clinical Practice in Promoting Physical and Mental Health in the Community: PR: Admission to the School of Nursing. Theoretical foundations related to primary care nursing practice with healthy families across the lifespan, including common health concerns related to childbearing, childrearing, childhood, adulthood, and aging.</td>
<td>3,0(0)</td>
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<td></td>
</tr>
<tr>
<td>NUR 3630</td>
<td>Promoting Healthy Families Across the Lifespan: PR: Admission to the School of Nursing. Theoretical foundations related to primary care nursing practice with healthy families across the lifespan, including common health concerns related to childbearing, childrearing, childhood, adulthood, and aging.</td>
<td>3,0(0)</td>
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</tr>
<tr>
<td>NUR 3626</td>
<td>Nursing Research: PR: Admission to the BSN program; STA 2014C or 2233; Basic Program students: Successful completion of the first semester, for RN to BSN students: NUR 3065 and RN status or C.I. Nursing research as a basis for nursing practice. Selected experiences in reviewing, analyzing, and interpreting nursing research for nursing practice.</td>
<td>3,0(0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 3615</td>
<td>Pathophysiology and Pharmacology for Nursing Practice: PR: Admission to the School of Nursing. Concepts and nursing care applications of the pathophysiological basis of illness, and principles of pharmacology.</td>
<td>5,0(0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 3614</td>
<td>Principles of Oncology Nursing: PR: C.I or Junior standing. Basic principles and concepts in oncology. Focus on cancer as it affects individuals and families. Emphasis on cancer treatment, symptoms management and psychosocial response.</td>
<td>3,0(0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 3605L</td>
<td>Nursing Intervention in Mental Illness: PR: Completion of all Jr. level Fall and Spring courses or C.I. Nursing application of theory, treatment modalities, and skills specific to clients with a primary diagnosis of mental illness.</td>
<td>2,0(0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 3605</td>
<td>Health Assessment Lab: CR: NUR 3065 and admission to the School of Nursing or C.I. Clinical application of concepts and techniques of health assessment of clients.</td>
<td>1,0(1)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 328</td>
<td>Pathophysiology and Pharmacology for Nursing Practice: PR: Admission to the School of Nursing. Concepts and nursing care applications of the pathophysiological basis of illness, and principles of pharmacology.</td>
<td>5,0(0)</td>
<td></td>
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<tr>
<td>NUR 3066</td>
<td>Health Care Informatics: PR: Baccalaureate in health related field or C.I. Use of information systems, clinical data management, communication strategies, and decision-making models.</td>
<td>3,0(0)</td>
<td></td>
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<tr>
<td>NUR 3065</td>
<td>Nursing as a Profession: Professional nursing roles in contemporary society covering a range of topics using discourse methodology that forms a foundation for nursing and health care.</td>
<td>3,0(0)</td>
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<tr>
<td>NUR 3065L</td>
<td>Therapeutic Interventions for Health Professionals: PR: Admission to nursing program; Theoretical and practical psychomotor development for therapeutic interventions in nursing practice. Graded S/U.</td>
<td>1,0(2)</td>
<td></td>
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</tr>
<tr>
<td>NUR 3032L</td>
<td>Interdisciplinary Care at End-of-Life: PR: Graduate Status or C.I. Examination of interdisciplinary roles and strategies for enabling patients, families, and caregivers to approach end-of-life free from avoidable distress and suffering.</td>
<td>1,0(2)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 3026</td>
<td>Issues in Health Care for the Homeless: PR: Pre- senior level baccalaureate status or admission to the graduate program; C.I. Emphasis on socioeconomic, political, nursing, medical, health practice and research related to care of the homeless. Occasional.</td>
<td>3,0(0)</td>
<td></td>
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</tr>
<tr>
<td>NUR 1015</td>
<td>Nursing as a Profession: Professional nursing roles in contemporary society covering a range of topics using discourse methodology that forms a foundation for nursing and health care.</td>
<td>3,0(0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 3806</td>
<td>Transitional Concepts in Nursing I: PR: Florida RN status, exploration of issues and theories related to professional nursing practice to facilitate transition of RN to baccalaureate level of nursing practice.</td>
<td>3,0(0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 3829H</td>
<td>Bioethical and Legal Issues in Health Care: PR: Permission of Honors. Includes questions concerning human values, legal and ethical questions arising in health care delivery policy issues and professional practice among licensed health care professionals. Occasional.</td>
<td>3,0(0)</td>
<td></td>
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</tr>
<tr>
<td>NUR 3826</td>
<td>International Perspectives of Nursing and Health Care: PR: Enrolled in School of Nursing or C.I. Comparative analysis of professional nursing practice and health care systems in the United States and selected countries. May be repeated for credit. Occasional.</td>
<td>3,0(0)</td>
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</tr>
<tr>
<td>NUR 4084</td>
<td>Transitional Concepts in Nursing II: PR: NUR 3805, NUR 3065, NUR 3165; Enhancement of knowledge from basic registered nurse programs and continuation of study from NUR 3805.</td>
<td>3,0(0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 4196</td>
<td>Crisis Intervention: PR: Completion of PSY 2012, STG 2000 or AN1 2000. Crisis theory and techniques; recognition and intervention in crisis events. Applicable to all areas of nursing and all helping professions. Occasional.</td>
<td>3,0(0)</td>
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</tr>
<tr>
<td>NUR 4257</td>
<td>Introduction to Critical Care Nursing: PR: RN status or C.I. Theories and principles of compassionate nursing care of individuals and families in critical care settings.</td>
<td>3,0(0)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NUR 4286</td>
<td>Gerontologic Nursing: PR: NUR 4286 or RN status or C.I. Theories and principles related to the promotion, maintenance, and restoration of health in older adults in various settings. Occasional.</td>
<td>3,0(0)</td>
<td></td>
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</tr>
<tr>
<td>NUR 4525</td>
<td>Nursing Intervention in Mental Illness: PR: Completion of all Jr. level Fall and Spring courses or C.I. Nursing application of theory, treatment modalities, and skills specific to clients with a primary diagnosis of mental illness.</td>
<td>2,0(0)</td>
<td></td>
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</tr>
<tr>
<td>NUR 4525L</td>
<td>Clinical Practice with Mentally Ill Clients: PR: Completion of all Jr. level Fall and Spring courses or C.I. Clinical practice in acute healthcare settings serving clients with a primary diagnosis of mental illness. Graded S/U.</td>
<td>1,0(1)</td>
<td></td>
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</tr>
</tbody>
</table>
NUR 4636 HPA-NURS 3(3,0) Community as the Continuum of Care: PR: Completion of all Jr. level and Sr. Fall courses or C.I. Theories and principles of community health nursing and application to clinical practice within a community oriented framework for nursing care. Fall, Spring.

NUR 4636L HPA-NURS 2(0,2) Clinical Community as the Continuum of Care: PR: Completion of all Jr. level and Sr. level Fall courses or C.I. Clinical application of theories and principles of community health nursing and application to clinical practice within a community oriented framework for nursing care. Graded SU. Fall, Spring. M&S fee: $45.00

NUR 4639 HPA-NURS 2(2,0) Accelerated Community as a Continuum of Care: PR: NUR 4745, NUR 4745L, NUR 4525, NUR 4525L, NUR 3167. CR: NUR 4945L, NUR 4829, NUR 4639L. Focus on knowledge needed in a community oriented practice model to effect changes in health status and risk, and self-care capacity of target population. Occasional.

NUR 4675 HPA-NURS 3(3,0) Issues in Rural Health Care: PR: NUR 3065 or Junior Status or C.I. The rural environment and appropriate health care services and programs for rural populations. Occasional.

NUR 4676 HPA-NURS 3(3,0) Health Care of Special Populations: Homeless: PR: Completion of junior level nursing courses or equivalent or C.I. Emphasis on socioeconomic, political, nursing, medical, and mental health practice and research related to care of the homeless. Occasional.

NUR 4745 HPA-NURS 4(4,0) Nursing Care of Clients with Acute and Life-threatening Illness across Lifespan: PR: Completion of all Jr. level Fall and Spring courses or C.I. Nursing care of individuals and families experiencing acute, unstable, or life-threatening health problems. Fall, Spring.

NUR 4745L HPA-NURS 4(0,4) Clinical Practice in Caring for Clients with Acute Illness: PR: Completion of all Jr. level Fall and Spring courses or C.I. Clinical practice in acute health care settings with clients experiencing acute, unstable, surgical, or life threatening health conditions. Graded SU. Fall, Spring. M&S fee: $45.00

NUR 4812C HPA-NURS 1(1,3) Practicum and Role Development for RN's: PR: For students enrolled in the RN-BSN program only. PR: or CR: NUR 4636, NUR 4636L, NUR 4827, NUR 4857. Synthesis of theories and concepts incorporated throughout the curriculum applied to a selected area of nursing practice and directed toward professional role development. Graded SU. Fall, Spring.

NUR 4827 HPA-NURS 3(3,0) Leadership and Management Principles: PR: NUR 3805, RN Status or C.I. Scientific theories and principles of leadership and management needed to function in leadership, management, and teaching roles in professional nursing. Application of decision making process. Fall, Spring.


NUR 4829 HPA-NURS 3(3,0) Accelerated Transitioning into Professional Practice as a Leader: PR: NUR 4745, NUR 4745L, NUR 4525, NUR 4525L, NUR 3167. CR: NUR 4945L, NUR 4639, NUR 4639L. Application of leadership and management principles to the beginning role of the professional nurse. Occasional.

NUR 4835 HPA-NURS 2(2,0) Role Transition: PR: Completion of all Jr. level and Sr. level Fall courses or C.I. Professional development and role transition of the baccalaureate graduate entering professional nursing practice. Spring.


NUR 4837 HPA-NURS 3(3,0) Health Care Issues, Policy, and Economics: PR: Completion of all Jr. level and Sr. level Fall courses or C.I. Study of selected health care policy issues relevant to the financing, organization, and delivery of nursing services to populations in the community. Fall, Spring.


NUR 4905C HPA-NURS Variable Nursing Independent Study: PR: NUR 4756C. An opportunity for in-depth study in an area of special interest to the student. Occasional.


NUR 4907H HPA-NURS 3(3,0) Directed Reading/Research-Honors: PR: Permission of Honors and admission to major. The student will review and synthesize literature on a selected topic in preparation for the Honors Thesis or Project. Occasional.

NUR 4930 HPA-NURS 3(3,0) Health Issues in Minority and Special Populations: PR: Nursing Major/Junior Level, or C.I. Identify and critically analyze structural and socio-cultural factors that influence the health of minorities and special populations. Occasional.

NUR 4934 HPA-NURS 3(3,0) Holistic Nursing: Explore lived experience of health-wellness, illness-disease focusing on mind-body-spirit, transpersonal healing and complementary interventions to maximize nursing care outcomes. Occasional.

NUR 4936 HPA-NURS 3(3,0) Women's Health Issues: PR: ENC 1102, Junior standing, or C.I. Factors and conditions impacting the health of women. May be repeated for credit. Fall.

NUR 4942 HPA-NURS 3(0,9) Selected Nursing Practicum: PR: NUR 4756C and 4756L. An opportunity for an in-depth clinical study in an area of special interest to the student. Graded SU. Occasional.

NUR 4945L HPA-NURS 4(0,4) Nursing Practicum: PR: Admission to the BSN program; STA 2043C or 2023; for Basic program successful completion of the first three semesters; for RN to BSN students; NUR 3805 and RN status or C.I. Designed to enhance student's knowledge and expertise in an area of nursing practice chosen by the student and school of nursing faculty. Graded S/U. Spring.

NUR 4971H HPA-NURS 3(3,0) Thesis or Project Works-Honors: PR: Permission of Honors. This course provides students with faculty mentoring through the process of writing and defending the Honors Thesis or Project. Occasional.


OCE 3490 OPT-OPT 3(3,0) Nanophotonics: PR: PHY 2049 or C.I. Opticalaphotonic processes on nano scale and interactions with elements of physics & engineering. Occasional.

OSE 5041 OPT-OPT 3(3,0) Introduction to Wave Optics: PR: EEL 4440 or PHY 4424 or C.I. Electromagnetic foundation of light waves as applied to reflection, diffraction, interference, polarization, coherence, and guided waves. Occasional.

OSE 5050 OPT-OPT 3(3,0) Fundamentals and Applications of Photonics: PR: Graduate standing or C.I. Introduction to optics and photonics emphasizing the concepts governing applications of current interest for science and engineering senior and first-year graduate students and working scientists and engineers. Occasional.

OSE 5051L OPT-OPT 3(1,4) Electro-Optics Laboratory: PR: EEL 4440 or OSE 5941 or C.I. Study of laboratory techniques for optical measurements and performance of measurements on electro-optic devices to determine operational characteristics. Occasional.

OSE 5111 OPT-OPT 3(3,0) Optical Wave Propagation: PR: Graduate standing or C.I. Optical propagation of light waves as applied to isotropic, anisotropic, and inhomogeneous media, guided waves and Gaussian beams. Odd Fall, Even Spring.

OSE 5115 COS-PHYS 3(3,0) Interference and Diffraction: PR: Graduate status or senior standing, or C.I. Interference of light, optical interferometry, Fraunhofer and Fresnel scalar diffraction, diffraction gratings, temporal coherence, spatial coherence, and partial coherence. Fall, Odd Spring.


OSE 5203 OPT-OPT 3(3,0) Fundamentals of Applied Optics: PR: Graduate standing or C.I. Fundamentals of Geometrical Optics, Geometrical Theory of Image Formation, Optical System Layout, Radiometry, Fall, Odd Spring.
Applied Optics Laboratory: PR: Graduate standing or C.I. Laboratory Techniques for observing optical phenomena and quantitative experimental study of geometrical optics, optical interferometry, diffraction, and image processing. Odd Spring.

Fundamentals of Optical Science: PR: Graduate standing or C.I. Microscopic theory of absorption, dispersion, and refraction of materials. Wave propagation, introduction to lasers and nonlinear optics. Even Fall, Odd Spring.

Materials for Optical Systems: PR: Graduate standing or C.I. Course will review key attributes of optical materials that allow them to be used in a range of applications, devices and components in optical systems. Occasional.

Fundamentals of Optoelectronic Devices: PR: Graduate standing or C.I. Operation, methods of fabrication, applications, and limitations of various optoelectronic devices including quantum well semiconductor devices. Even Fall.

Integrated Optics: PR: Graduate standing or C.I. The propagation and loss characteristics in dielectric optic waveguides, fundamental concepts of both integrated and fiber optic devices, numerical modeling of complex integrated optical components. Odd Spring.

Laser Principles: PR: PHY 3101, MAP 2302, PHY 4424, graduate status or senior standing, or C.I. Classical introduction to the basic principles of laser gain media, properties of resonators and modes, description of specific laser systems. Occasional.

Thin Film Optics: PR: PHY 4424 or EEL 4440 and OSE 5530C. Principles of thin film optics and its applications in optical, electro-optical, and laser systems. Occasional.


Ethics and Values in Public Administration: PR: Junior standing or C.I. Ethical dimensions of public administration. Develops the awareness, skills, and value framework to act ethically. Occasional.

Urban and Regional Planning: PR: PAD 3003 or C.I. Planning topics such as land-use, and comprehensive and urban planning as they relate to the physical aspects of the natural and human environment. Fall, Spring.

The Administration of Public Policy: PR: ECO 2023. Problems of values, interests, and objectives and their impact on the administration of public programs, stressing the interplay between social values, policies and administration. Fall, Spring.

Administrative Theory: A review of the behavioral aspects of the administrative process, its impact on organizational goal achievement and on supervisory strategies. Some social and structural pathologies affecting administrative practice. Fall, Spring.

Intergovernmental Administration: Various approaches to studying and explaining the American Intergovernmental system. Emphasis on interorganizational activities, i.e., negotiation, cooperation, and coordination within the legal setting. Fall.

Public Sector Project Management: Various approaches to managing projects, including using scheduling techniques such as GANTT, CPM, and PERT, as well as team building, facilitating, and leadership skills. Occasional.

Non-Profit Organizations: PR: PAD 3003 or C.I. The operations of non profit organizations, including working with board of directors, volunteer services, fund-raising and grantsmanship, financial management and marketing. Fall, Spring.

Resource Development in the Nonprofit Sector: PR: Junior status or C.I. Examination of the development and management of human resources and financial resource development in nonprofit organizations is discussed. Fall.

Volunteer Management: PR: Junior status or C.I. Examination of recruitment, selection, training and management of volunteers in nonprofit organizations and the application of management theory. Spring.

Planning and Improvement for Pub Org: Prepare future leaders for the changing paradigms of the public sector by providing education in a variety of quality related areas. Fall, Spring.

Planning Budgeting: Skills and Techniques: PR: PAD 4204 or C.I. Analysis of methods of securing public funds, the process of budget making, and techniques of management used in managing public funds. Fall, Spring.

Fiscal Management: PR: C.I. Analysis of methods of securing public funds, the process of budget making, and techniques of management used in managing public funds. Fall, Spring.

Program Evaluation for Public and Non-Profit Organizations: PR: PAD 3003 or C.I. To develop an understanding of program evaluation and to apply the process by developing a program evaluation for a program. Spring.

Land Use and Planning: PR: PAD 3330 or C.I. The study of land use and planning to include zoning variances, non-conformities, development agreements, subdivision controls, redevelopment and sprawl. Fall.

Urban Design: CR: PAD 3330 or C.I. Theories and concepts of the physical, cultural, social and financial factors associated with urban design. Spring.

Issues in Environmental Program Management: CR: PAD 3330. The study of environmental policy making processes, programs, and problems through lectures, field study, and research projects. Spring.

Hazard Mitigation and Preparedness: PR: PR or CR: PAD 4392. Specialized knowledge and skills necessary to develop a proactive hazard mitigation plan to reduce the effects of natural and technological disasters. Fall.

Managing Public Emergencies: PR: PAD 3003 or C.I. After a public emergency, a variety of services must be provided to the victims. This course reviews and analyzes coordination and management of these services. Fall.

Disaster Response and Recovery: PR: PR or CR: PAD 4392. Individual, group, organizations and community behavior and recovery from disasters. Service delivery strategies are highlighted and complex dynamics of the recovery process are emphasized. Spring.

Public Personnel Administration: The history, operating components, structural characteristics, and increasing impact of laws and related sanctions on personnel practices of public agencies. Fall, Spring.

Multiculturalism in Public Administration: PR: PAD 3003 or C.I. This course is designed to help public managers examine public and personal attitudes and values, ethical dilemmas, and social consequences related to issues of diversity. Occasional.

Reengineering Government: PR: PAD 3003. Acquaint undergraduate students with the latest thinking on improving the effectiveness and efficiency of public organizations via reengineering. Occasional.

Privatization: PR: PAD 3003 or C.I. Analysis of the process of privatizing existing governmental services, including privatization decision, creation of RFP or ITB, contract award and contract management. Occasional.

Information Systems for Public Managers and Planners: PR: PAD 3330 or C.I. Knowledge and skills concerning information technologies important for planners and public managers, including use of GIS to manipulate and analyze spatial data. Spring.

Survey Research in Public Administration: Introduction to the concepts, design, methodology, computer applications, and data analysis in applied research in the public sector. Fall, Spring.

Issues in Urban Administration: CR: PAD 3330 or C.I. To provide students with an understanding of public policy and administrative responses to socioeconomic problems within the urban context. Occasional.

Public Administration Internship: CR: C.I. Internship in municipal, county, state, or federal government, including assignments in such fields as personnel, planning, budget, and fiscal, procurement, and public safety. Graded SU. Occasional.
PAD 4948 HPA-PUB 3(0,3)
American Humanics Internship: PR: Enrollment in American Humanics AH Certification Program, completion of 2 AH restricted courses and approval of AH Campus Director. Supervised internship to demonstrate AH identified competencies for students in American Humanics certification program. Requires minimum of 300 hours placement in nonprofit human services organization. May be repeated for credit. Fall, Spring.

PAD 5041 HPA-PUB 3(3,0)
Ethics and Values in Public Administration: Examination of ethics in the public sector. Public concerns, past patterns, and individual/social aspects of ethical behavior are explored. Occasional.

PAD 5142 HPA-PUB 3(3,0)
Nonprofit Organizations: PR: Admission to certificate program or C.J. Overview of nonprofit management, including history, governance structures, criteria used to establish nonprofit status, range of organizations, and application of management theory. Fall, Spring.

PAD 5145 HPA-PUB 3(3,0)
Volunteerism in Nonprofit Management: PR: Admission to certificate program or C.J. Human resource development in nonprofit organizations, including board selection, development and leadership, volunteer recruitment, training, retention and theories of motivation, leadership, ethical issues. Fall, Spring.

PAD 5146 HPA-PUB 3(3,0)
Nonprofit Resource Development: PR: Post-bacc status or C.J. Examines human resource development and financial resource development in nonprofit organizations including management issues. Fall, Spring.

PAD 5336 HPA-PUB 3(3,0)
Introduction to Urban Planning: Issues of urbanization, regional development, land use and comprehensive planning, environmental planning, and social planning. Fall.

PAD 5337 HPA-PUB 3(3,0)
Urban Design: Planning techniques such as planned unit developments, capital improvements planning, and growth management, and planning methods, including needs assessment and graphic design. Fall.

PAD 5338 HPA-PUB 3(3,0)
Land Use and Planning Law: Review of national and local aspects of the legal underpinnings of urban planning aspects such as zoning, growth management, and environmental regulation. Spring.

PAD 5356 HPA-PUB 3(3,0)
Managing Community and Economic Development: PR: graduate standing or C.J. Overview of economic development activities focusing on policy and managerial issues at the local level. Spring.

PAD 5425 HPA-PUB 3(3,0)
Dispute Resolution in the Public Sector: An examination of the skills needed to resolve disputes in the public sector through facilitation, mediation, and other alternative methods. Occasional.

PAD 5427 HPA-PUB 3(3,0)

PAD 5806 HPA-PUB 3(3,0)
Local Government Operations: Operational Functions of municipal and county governments and the role of the chief executive officer. Occasional.

PAD 5807 HPA-PUB 3(3,0)
Administrative Practice in the Public Sector: The application of various theoretical concepts to the "real world" of public administration. Policy formulation and execution are examined through the case study mode. Occasional.

PAD 5850 HPA-PUB 3(3,0)
Grant and Contract Management: PR: PAD 3003 or C.J. Study of government or public nonprofit agency grant and contract administration and managing from funding assistance solicitation and grant and contract preparation, evaluation, and presentation. Fall, Spring.

PAB 2102 HPA-HPA 2(2,0)
Public Affairs Careers: Introduction and examination of public affairs programs of study and career opportunities that will prepare students for future careers. Fall.

PAB 3753H HPA-HPA 3(3,0)

PAB 3850H HPA-HPA 3(3,0)

PAB 3931 HPA-HPA 1(1,0)
American Humanics Human Service Workshop: PR: American Humanics minor, junior standing and ENC 1102, or C.J. Designed as forum for exchange between students and professional nonprofit personnel on various leadership and management issues. American Humanics student association activities are included. May be repeated for credit. Fall, Spring.

PCB 3023 COS-BIOL 3(3,0)

PCB 3024L COS-BIOL 2(0,8)
Genetics Laboratory: PR: or CR: PCB 3023 Critical-thinking, technical skills, and integration of biochemical, molecular, and microscopic experimental approaches to understanding cell structure and function. Occasional.

PCB 3044 COS-BIOL 3(3,0)

PCB 3044L COS-BIOL 1(0,3)
Principles of Ecology Laboratory: PR: or CR: PCB 3044 or C.J. Field and laboratory investigations of natural ecosystems, with emphasis on current methodology in ecology. Fall. M&S fee: $15.00

PCB 3063 COS-BIOL 3(3,0)
Genetics: PR: BSC 2010C, and CHM 2046, or C.J. Basic principles of heredity as applied to prokaryotes and eukaryotes. Fall, Spring.

PCB 3063H COS-BIOL 3(3,0)
Honors Genetics: PR: BSC 2010C and CHM 2046, or C.J., and consent of Honors. Basic principles of heredity as applied to prokaryotes and eukaryotes with honors content. Occasional.

PCB 3063L COS-BIOL 1(0,3)
Genetics Laboratory: PR: or CR: PCB 3063 or C.J. Introduction to laboratory techniques of genetics. Fall, Spring. M&S fee: $20.00

PCB 3233 BCBS-M&M 3(3,0)
Immunology: PR: BSC 2010C. Basic principles of immune reactions, antigen antibody interactions, cell mediated immunity, tumor immunology, and immune therapy. Fall, Spring.

PCB 3233L BCBS-M&M 1(0,3)
Immunology Laboratory: CR: PCB 3233. Introduction to laboratory techniques in immunology. Fall, Spring. M&S fee: $20.00

PCB 3301C COS-BIOL 4(3,4)

PCB 3304C COS-BIOL 2(4,2)

PCB 3314 COS-BIOL 3(3,0)

PCB 3355C COS-BIOL 2(1,1)
Tropical Marine Biology: PR: BSC 2010C and BSC 2011C or C.J. Intensive, one week field course at an institute of marine science. Diving/snorkeling will be used extensively to study organisms on pristine coral reefs. Occasional.

PCB 3442 COS-BIOL 3(3,0)

PCB 3522 BCBS-M&M 3(3,0)
Molecular Biology I: PR: CHM 2211 and MCB 3020C or C.J. The general principles governing the structure and function of both procaryotic and eucaryotic genes. Fall, Spring.

PCB 3703C BCBS-M&M 4(3,3)
Human Physiology: PR: BSC 2010C, CHM 2032, or CHM 2045C. The physiology and interrelationships of organ systems of the human body. Fall. Spring. M&S fee: $55.00

PCB 3703H BCBS-M&M 4(3,3)
Human Physiology Honors: PR: BSC 2010C, CHM 2046 and consent of Honors College. The physiology and interrelationships of organ systems of the human body. With honors level content. Fall.

PCB 4239 BCBS-M&M 3(3,0)
Molecular Immunology: PR: PCB 3522. Advanced understanding of the workings of the immune system, correlating cellular and molecular mechanisms with clinical cases. Spring.

PCB 4302C COS-BIOL 4(3,4)
Physiochemical Limnology: PR: BSC 2010C and BSC 2011C, or C.J. Limnology and methods for freshwater ecology, with respect to physical, and chemical parameters. Occasional. M&S fee: $15.00
UCF Courses and Descriptions

PCB 4303C COS-BIOL 4(3,4)

PCB 4353 COS-BIOL 3(3,0)
Florida Natural History: PR: BSC 2101C and BSC 2110C, or C.I. Florida’s ecology, past and present flora and fauna, and naturalists who visited the state. Occasional.

PCB 4514 COS-BIOL 3(3,0)
Genetics II: PR: PCB 3063. Advanced topics in Genetics, including extra-nuclear inheritance, epigenesis, gene and chromosome mutation, genetics of development and behavior, and advanced genetic analytical techniques. Occasional.

PCB 4524 BCBS-M&M 3(3,0)

PCB 4524H BCBS-M&M 3(3,0)
Molecular Biology II-Honors: PR: Permission of Honors and PCB 3522. Same as PCB 4524 with honors level content. Spring.

PCB 4529 BCBS-M&M 3(3,0)

PCB 4683 COS-BIOL 4(4,0)
Population Biology and Evolution: PR: PCB 3044 and PCB 3063 or equivalents. Demographic and genetic structure of populations and their relationship to specialization, adaptation, and macroevolutionary processes in plants and animals. Fall, Spring.

PCB 4683L COS-BIOL 1(0,2)
Population Biology and Evolution Lab: PR: or CR: PCB 4683. Reading, problem solving and discussion on current topics in evolutionary biology. Fall, Spring. M&S fee: $10.00

PCB 4723 COS-BIOL 4(4,0)
Animal Physiology: PR: PCB 3023 or C.I. Functions of body processes occurring in animals, with emphasis on vertebrate physiology. Fall.

PCB 4805 BCBS-M&M 3(3,0)
Endocrinology: PR: PCB 3703C or equivalent; CHM 2211. Mechanisms of action of hormones; interaction between the nervous and endocrine systems. Occasional.

PCB 5045C COS-BIOL 4(3,2)
Conservation Biology: PR: PCB 3044 and PCB 3063 or C.I. Scientific basis of conservation; conservation of ecosystems, populations, exploited species, and endangered species. Weekend field trips are required. Occasional. M&S fee: $15.00

PCB 5048C COS-BIOL 4(2,4)
Restoration Ecology: PR: PCB 3044, BSC 4312C, or graduate status or C.I. General principles of assisting recovery of degraded, damaged or destroyed ecosystems. Occasional.

PCB 5107C COS-BIOL 4(3,2)
Advanced Cell Biology: PR: PCB 3063 and PCB 3023, graduate status or senior standing, or C.I. Review of selected topics in cell biology with emphasis on current research in areas of membrane structure, protein targeting, cytoskeleton, signalling and cell cycle. Occasional. M&S fee: $15.00

PCB 5108 COS-BIOL 4(4,0)
Concepts in Plant Cell Biology: PR: PCB 3023 and PCB 3063 or graduate standing or C.I. Plant cell biology, including cytosekeletal dynamics, cell signalling, cycle regulation, protein targeting and organelle structure and function. Spring.

PCB 5238 BCBS-M&M 3(3,0)
Immunobiology: PR: PCB 3233. 4299. Advanced topics in immune system dysregulation with special emphasis on innate immunity. Spring.

PCB 5259 BCBS-M&M 3(3,0)
Tumor Biology: PR: PCB 4524. A course designed to provide an introduction and broad overview of the current knowledge and research in the field of cancer biology. Occasional.

PCB 5265C COS-BIOL 4(3,2)
Advanced Developmental Biology: PR: PCB 3063 and ZOO 4003C or equivalent, graduate status or senior standing or C.I. Lecture and literature review of emerging areas in plant and animal developmental biology. Even Fall. M&S fee: $15.00

PCB 5275 BCBS-M&M 3(3,0)
Signal Transduction Mechanics: PR: PCB 3522 and PCB 4524. A course emphasizing various signal transduction cascades used in mammalian cells to control growth and differentiation. Discussion of original research papers will occur. Occasional.

PCB 5326C COS-BIOL 5(3,2)
Ecosystems of Florida: PR: PCB 3044, PCB 3044L or equivalent, and graduate status or senior standing or C.I. Ecosystems of Florida will be discussed to include geography, geology, climate, energetics, nutrient cycling, community structure and conservation. Occasional. M&S fee: $15.00

PCB 5329C COS-BIOL 4(3,2)
Landscape Ecology: PR: PCB 3044, STA 2023, graduate status or senior standing, or C.I. Influence of spatial heterogeneity on ecological processes. Emphasizes quantitative methods (e.g., GIS, remote sensing and modeling) to characterize landscape patterns and dynamics. Occasional. M&S fee: $15.00

PCB 5435C COS-BIOL 4(2,6)
Marine Ecology of Florida: PR: BSC 4312C, graduate status or senior standing, or C.I. Survey of experimental methods used in the study of marine communities in central and southern Florida, combining field manipulation and readings from primary literature. Odd Spring. M&S fee: $45.00

PCB 5480C COS-BIOL 3(3,0)
Quantitative Conservation Biology: PR: MAC 2311, PCB 3044, STA 2014C or C.I. Current methods of data analysis and modeling to evaluate biological population dynamics. May be repeated for credit one time. Occasional.

PCB 5485 COS-BIOL 3(3,0)
Models in Ecology: PR: PCB 3044, MAC 2311 (or equivalent), and graduate status or senior standing or C.I. A survey of how simulation models are applied to ecological questions of both a theoretical and managerial nature. Occasional. M&S fee: $15.00

PCB 5556 COS-BIOL 3(3,0)
Conservation Genetics: PR: PCB 3063 and PCB 4683. Applications of genetic models to the understanding and conservation of animal and plant populations. Occasional. M&S fee: $15.00

PCB 5665C COS-BIOL 4(3,2)
Human Genetics: PR: PCB 3063, graduate status or senior standing, or C.I. Human Genetics provides a theoretical framework for understanding the biology of the human species. Occasional. M&S fee: $15.00

PCB 5677 COS-BIOL 3(3,0)
Molecular Evolution: PR: PCB 3063 and PCB 4683, graduate status or senior standing, or C.I. Provides an overview of molecular methods currently used to analyze diversity within and among species. Occasional.

PCO 4203 COS-PSYCH 4(3,2)
Interviewing and Counseling: PR: PSY 3012, PPE 3003, CLP 3143 and C.I. Review of various interviewing and counseling theories and techniques used in Mental Health settings as well as practical experience in interviewing and counseling procedures. Fall, Spring.

PEL 2111 ED-TLP 2(1,1)
Basic Volleyball and Softball: The analysis of offensive and defensive alignment, techniques, and strategies. Occasional.

PEL 2111 ED-TLP 2(1,1)
Beginning Volleyball and Softball: The analysis of offensive and defensive alignment, techniques, and strategies. Occasional.

PEL 2112 ED-TLP 2(1,1)
Intermediate Bowling: PR: PEL 2111, bowling experience, or average of 140 verification by league sheet. This course provides in-depth information that is necessary for the development of high bowling averages. Occasional.

PEL 2121 ED-TLP 2(1,1)
Beginning Tennis: Performance and application of basic skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. Fall, Spring.

PEL 2122 ED-TLP 2(1,1)
Intermediate Tennis: PR: PEL 2121 or equivalent competency. A study of performance and application of intermediate skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. Occasional.

PEL 2341 ED-TLP 2(1,1)
Beginning Golf: Performance and application of basic skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. Occasional.

PEL 2342 ED-TLP 2(1,1)
Intermediate Golf: PR: PEL 2341 or equivalent competency. A study of performance and application of intermediate skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. Occasional.

PEL 2640 ED-TLP 2(1,1)
Basic Football and Basketball: The analysis of offensive and defensive alignment, techniques, and strategies. Occasional.

PEM 2101 ED-TLP 2(1,1)
Body Development: An in-depth study of individual physical (musculo-skeletal, neuromuscular, cardiorespiratory) fitness. Emphasis on individual diagnosis, principles, procedures, and conduct of related exercise programs. Fall, Even Spring.

PEM 2104 ED-TLP 3(2,1)
Personal Fitness: Study of personal fitness concepts, with opportunities to develop an individual, optimal level of fitness and an improved lifestyle through high-level wellness. Fall, Spring.
PEM 2121C ED-TLP 3(1,3)  
**Yoga:** Performance and application of a series of basic movement, breathing, and concentration techniques designed to enhance body awareness, flexibility, strength, and balance, and to allow the mind to be focused and centered. Fall, Spring.

PEM 2131 ED-TLP 2(1,1)  
**Strength Resistance Training:** Study of fitness and strength development through resistance exercise. Fall, Spring.

PEM 2171 ED-TLP 2(1,1)  
**Aerobics:** Appropriate rhythmic muscle toning movements that develop aerobic fitness; concepts taught include warm-up, flexibility, stretching, cool down, and heart rate. Fall, Spring.

PEM 2173 ED-TLP 2(1,1)  
**Step Aerobics:** Appropriate rhythmic muscle toning movements utilizing the step to develop aerobic fitness. Concepts taught include warm-up, flexibility, work-out, and cool-down. Occasional.

PET 3175 ED-TLP 2(1,1)  
**Country/Western Dance:** Basic instruction in Country/Western Dance. Improve aerobic fitness by learning line dances, circle dances and basic partner steps, such as two-step and waltz. Occasional.

PET 2405 ED-TLP 3(1,2)  
**Self Defense for Women and Men:** Designed to provide students with self defense skills. Fall, Spring.

PET 2443 ED-TLP 2(1,2)  
**Tae Kwon Do:** An analysis and application of the martial arts, as part of an overall physical and mental training system. Occasional.

PET 5408C ED-TLP 3(2,1)  
**Controlling Classroom Violence:** PR: Graduate standing; certified teacher. A hands-on course dealing with controlling disruption and violence as well as how teachers can protect themselves. Occasional.

PEN 1121 ED-TLP 2(1,1)  
**Elementary Swimming:** For non-swimmers and beginning swimmers. Development and study of technique in the basic skills of water safety and swimming. Occasional.

PEO 2011 ED-TLP 3(2,1)  
**Team Sports:** PR: This course is designed to develop skill proficiency and knowledge to plan, implement and evaluate team sports as part of the Physical Education program. Fall. Spring. M&S fee: $5.00

PEO 2031 ED-TLP 3(2,1)  
**Individual Sports:** Skill proficiency and knowledge to plan, implement and evaluate individual sports. Fall, Spring.

PEO 2624 ED-TLP 3(2,1)  
**Coaching Basketball:** Theory and methods of coaching basketball, including the analysis of offensive and defensive techniques and strategies. Fall.

PEO 3041 ED-TLP 3(3,0)  
**Games Analysis:** PR: Admission to Physical Education program and Jr. Standing or C.I. Teaching methodology utilizing games for specific outcome behaviors in grades K-12. Occasional.

PEO 3324 ED-TLP 3(2,1)  
**Coaching Volleyball:** Theory and methods of coaching volleyball, including the analysis of offensive and defensive alignment techniques and strategies. Spring.

PET 3214 ED-TLP 3(3,0)  
**Sports Psychology:** A review of principles of psychology related to the enhancement of satisfaction and performance in sports. Occasional.

PET 3361 ED-TLP 3(3,0)  
**Nutrition for Sports and Fitness:** PR: ZOO 3736C or C.I. Study of nutrition with focus on the strategies designed to meet nutrient demands for physical activity, exercise, and athletic performance in sports and fitness. Fall.

PET 3408 ED-TLP 3(3,0)  
**Public Relations in Sports and Fitness:** PR: Admission to program or C.I. Functions and responsibilities of a public relations professional or C.I. examination of the media and the interaction with the public and media representatives with specific application to sports and fitness professionals. Fall.

PET 3462 ED-TLP 3(3,0)  
**Fiscal and Facilities: Issues in Sports and Fitness:** PR: Admission to program or C.I. Design, maintenance, and operation of sports and fitness facilities with a specific focus on fiscal management. Fall.

PET 3493 ED-TLP 3(3,0)  
**Sports and Ethics:** PR: Junior standing or C.I. An exploration into ethics and its influence on sports. Fall, Spring.

PET 3620C HPA-HP 3(2,2)  

PET 3623C HPA-HP 3(2,2)  
**Recognition and Evaluation of Athletic Injuries:** PR: PET 3620C. Recognition and evaluation skills required to perform an injury assessment of the upper extremity, head and neck, and provision of immediate management. Fall.

PET 3670C HPA-HP 4(0,8)  
**Practicum in Athletic Training I:** PR: PET 3620C. Clinical introduction to an athletic training site under direct supervision of a Certified athletic trainer. Fall.

PET 3671C HPA-HP 4(0,8)  
**Practicum in Athletic Training II:** PR: PET 3670C. Continuation of Clinical practicum under direct supervision of Certified athletic trainer. Spring.

PET 3740C ED-TLP 2(1,1)  
**Teaching Physical Education in the Secondary and Middle School:** PR: Admission to Junior Block, or C.I. Curricular and instructional considerations for teaching secondary and middle school physical education. Occasional.

PET 3765 ED-TLP 3(3,0)  
**Coaching Theory:** PR: Admitted to COE or C.I. Theories of coaching team and individual sports. Fall, Spring.

PET 3776 ED-TLP 3(3,0)  
**Fitness and Conditioning Concepts:** PR: ZOO 3736C or C.I. The integration of advanced components of muscular strength training and endurance conditioning for the sports and fitness professional. Fall.

PET 3820 ED-TLP 3(2,1)  
**Teaching Sports Skills I:** PR: PET 2622C. Skill proficiency and knowledge to plan, implement and evaluate sports and leisure activities in physical education programs. Occasional.

PET 3940 ED-TLP 3(3,0)  
**Internship I: Physical Education:** PR: EDG 4323; CR: PET 3930. Student teaching in a physical education program under the supervision of a certified classroom teacher. Occasional.

PET 3941 ED-TLP 6(0,16)  
**Internship II:** PR: Senior standing. EDG 4323. Satisfactory completion of the portfolio. Internship assignment under a certified physical education teacher. Half in elementary, half in secondary. Occasional.

PET 4002 ED-TLP 3(1,2)  
**Outdoor and Leisure Activities:** Study of contemporary outdoor and leisure activities. Course will include but not be limited to the ‘adventure activity curriculum,’ camping, water activities, fishing, orienteering, hiking. Occasional.

PET 4050C ED-TLP 3(2,1)  
**Motor Development and Learning:** PR: PE Junior standing. An analysis of the theories and factors influencing the motor development of children and the learning of gross and fine motor skills. Fall, Spring.

PET 4083C ED-TLP 4(3,1)  
**Practical Fitness training:** PR: PET 4312, PET 4351C, PET 2622C, PET 4550, PEM 2171. An in-depth study into fitness-related concepts as they are applied to individuals and groups. Fall.

PET 4088 ED-CFCS 3(3,0)  
**Physical Activity & Preventive Medicine:** PR: ZOO 3736C or C.I. Critique and analysis of evidence that exercise training can prevent some diseases and increase quality of life. Occasional.

PET 4215 ED-TLP 3(3,0)  
**Motivational Aspects of Athletic Performance:** PR: Coaching minor or C.I. Theories of attitude, motivation, effort, persistence, mental focus, visualization, and an exploration of techniques to enhance athlete performance. Fall, Spring.
PET 4312 ED-TLP 3(2,1)
Biomechanics: PR: Anatomy. The comprehension and application of anatomical and mechanical principles involved in human movement. Fall.

PET 4315C HPA-HP 3(2,2)
Biomechanics of Sport: PR: PET 4630C. Assessment and recognition of physiological and mechanical aspects of sports and injuries. Fall.

PET 4351C ED-TLP 3(2,1)
Applied Exercise and Human Physiology: PR: ZOO 3736C, ZOO 3736C or appropriate human anatomy course. Metabolic, neuromuscular, respiratory and cardiovascular physiological concepts and principles with practical application to physical education and sport. Fall, Spring.

PET 4401 ED-TLP 3(3,0)
Administration and Evaluation in Physical Education: This course is designed to address administrative, measurement and evaluation considerations of physical education programs. Fall, Spring.

PET 4491 ED-TLP 3(3,0)
Legal Issues in Sports and Fitness: PR: Admission to program or C.I. Examination of the legal issues and problems encountered by sports and fitness professionals. Fall.

PET 4550 ED-TLP 3(2,1)

PET 4603 HPA-HP 3(3,0)
Introduction to Athletic Training: PR: Athletic Training majors only. Basic athletic training skills including emergency care, taping and wrapping, goniometry and manual muscle testing. Occasional.

PET 4604 HPA-HP 3(3,0)
Sports Medicine Field Application: Demonstration and application of the treatment for various sports injuries. Spring.

PET 4606 HPA-HP 3(3,0)
Applied Fitness in Sport: PR: PET 3671C. Appreciation and clinical application of fitness regarding athletics. Spring.

PET 4624C HPA-HP 3(2,2)
Recognition and Evaluation of Athletic Injuries II: PR: PET 3622C and PET 3623C. Recognition and evaluation skills required to perform an injury assessment of the lower extremity, spine, and general medical conditions and provision of immediate management. Spring.

PET 4625 ED-TLP 3(3,0)

PET 4630C HPA-HP 4(2,4)

PET 4632C HPA-HP 4(2,4)

PET 4640 ED-TLP 3(3,0)
Adapted Physical Education: Principles and methods of adapting physical education activities and programs for exceptional children and adults, mainstreaming rationale and methods analyzed. Spring.

PET 4660C HPA-HP 3(3,0)
Organization and Administration of Athletic Training: PR: PET 3671C. Administrative knowledge in the athletic training profession. Fall.

PET 4672C HPA-HP 4(0,8)
Practicum in Athletic Training II: PR: PET 3671C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer. Fall.

PET 4673C HPA-HP 4(0,8)
Practicum in Athletic Training IV: PR: PET 4672C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer. Spring.

PET 4674 HPA-HP 1(1,0)

PET 4710 ED-TLP 3(3,0)
Teaching Physical Education K-12: PR: Must be admitted to internship. Develop effective instructional skills through planning, teaching, and assessment. Curricular and instructional considerations for teaching Physical Education. Odd Fall, Even Spring.

PET 4724 ED-TLP 3(3,0)
Development and History of Physical Education Curriculum: A study of the factors involved in curriculum development and historical and philosophical considerations of physical education programs. Occasional.

PET 4763 ED-TLP 3(3,0)
Coaching Methods And Principles: PR: Junior standing, Coaching minor or C.I. Assist students in understanding and conceptually integrating teaching methods/coaching strategies with emphasis given to conditioning and leadership styles. Occasional.

PET 4823C ED-TLP 3(2,1)
Teaching Sports Skills II: PR: PET 3820. Skill, proficiency and knowledge to plan, implement and evaluate sports skills. Odd Fall, Even Spring.

PET 4925 ED-TLP 3-6 (0,16)
Sports and Fitness Practicum I: PR: Overall GPA of 2.5 and completion of 2/3 of the Sports and Fitness program requirements. Field experience in a sports and fitness related organization. Occasional.

PET 4926 ED-TLP 9-12(0,35)
Sports and Fitness Practicum II: PR: Sports & Fitness Practicum I and overall GPA of 2.5. Field experience in a sports and fitness related organization, association, or business. Occasional.

PET 4943 ED-TLP 12(0,35)
Internship II: PR: Must have completed course work in specialization. Satisfactory completion of portfolio. Full time student teaching under a certified elementary or secondary physical education teacher. May be repeated for credit. Graded SU. Occasional.

PET 4945 ED-TLP 12(0,35)
Internship III: PR: Must have completed course work in specialization. Satisfactory completion of portfolio. Full time student teaching under a certified elementary or secondary physical education teacher. Occasional.

PET 5355 ED-TLP 3(3,0)

PET 5405 ED-CFCS 3(3,0)
Introduction to Sports Administration: PR: C.I. 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. Occasional.

PET 5465 ED-CFCS 3(3,0)
Financial Issues in Sports and Fitness: PR: C.I. Examines basic financial concepts including understanding annual reports, developing budgets, financial analysis, and examining methods for increasing revenue and controlling cost in the sport industry. Occasional.

PET 5466 ED-CFCS 3(3,0)
Marketing and Promoting Sports and Fitness Programs: PR: C.I. Introduces students to all aspects of sports marketing including planning, organizing, marketing, evaluating, and conducting special and sport events. Occasional.

PET 5635 ED-TLP 3(3,0)
Advanced Human Injuries: PR: PET 2622C or C.I. The application of medical knowledge to sport with the emphasis on preserving the health of an athlete before, during and after performance. Occasional.

PET 5766 ED-TLP 3(3,0)

PET 5931 ED-TLP 3(3,0)
Current Issues and Trends in Physical Education and Sport: PR: Admission to the Physical Education Graduate Program or C.I. Examination of the current issues and trends encountered by professionals in physical education and sport. Occasional.

PGY 2401C CAH-ART 3(3,2)
Beginning Photography: PR: ART 2201C, ART 2203C or C.I. Introduction to photography with an emphasis. Fall. M&S fee: $45.00

PGY 3002 CAH-ART 3(3,0)
Contemporary Photography: PR: ARH 3711 or C.I. Late 20th and 21st century (1970’s-present) contemporary movements in photography, special emphasis on issues and ideas relative to contemporary image making. Occasional.

PGY 3205 CAH-ART 3(3,0)
Photographic Lighting Techniques: PR: PGY 2107, PGY 2215 or C.I. Advanced lighting techniques in both the studio and on location, with projects in the editorial, advertising, or fine art genres. Occasional. M&S fee: $45.00

PGY 3324 CAH-ART 3(3,0)
The Professional Environment: PR: ARH 3711. PGY 3002, or C.I. The world of professional photography, exploring various topics such as legal and ethical issues, marketing and self-promotion strategies. Occasional.

PGY 3410C CAH-ART 3(3,2)
PHG 3451 CAH-ART 3(3,0)  
Alternative Processes: PR: PGY 4472 or C.I. 19th century photographic processes with related contemporary non-traditional methods of image creation and presentation. Occasional. M&S fee: $45.00

PHG 3480 CAH-ART 3(3,0)  
Photographic Exhibition and Display: PR: ARH 3711, PGY 3002, PGY 3324 or C.I. The museum environment, focusing on the acquisition and display of photographic material as well as curatorial functions facing contemporary museums. Occasional.

PGY 3610C COS-COMM 3(1,4)  
Photography I: PR: Journalism majors only. Black and white shooting and processing, dark room and computer-based newspaper assignments. 35 MM SLR camera with manual mode required. Fall, Spring. M&S fee: $45.00

PGY 3630 COS-COMM 3(3,0)  
Photography II: PR: PR 3620C. Photography Editing, Assignment selection, picture and copy editing, cropping, picture desk management, and ethics of photography, and the new technological advances. Occasional. M&S fee: $11.00

PGY 3620C COS-COMM 3(1,2)  

PGY 3751 CAH-ART 3(3,0)  

PGY 3809 CAH-Art 3(3,0)  
Photography and Web Design: PR: PR 3821 or C.I. Advanced issues in digital imaging, emphasis on professional output solutions for the photographer such as web as an interface, large format printing, and film recorder. Occasional. M&S fee: $45.00

PGY 3821 CAH-Art 3(3,0)  
Digital Imagery for Photography: PR: PGY 1806 or C.I. Current digital imaging software and its application to contemporary work. Occasional. M&S fee: $45.00

PGY 4003 CAH-Art 3(3,0)  
Image, Culture, and Society: PR: PGY 3002 or C.I. The role of the media and imagery in culture and society. Occasional.

PGY 4228 CAH-Art 3(3,0)  
Advanced Illustrative Photography: PR: PR 3205 or C.I. Various avenues of photographic illustration, including lighting, historical and contemporary issues, style, presentation, and social concerns. Occasional. M&S fee: $45.00

PGY 4420C CAH-Art 3(2,3)  
Advanced Photography: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2400C, and a satisfactory portfolio review or C.I. Or, admission to the Photography program. Advanced photography skills and portfolio development. Designed for art majors. May be repeated for credit. Fall, Spring. M&S fee: $45.00

PGY 4440C CAH-Art 3(2,3)  

PGY 4471 CAH-Art 3(3,0)  

PGY 4472 CAH-Art 3(3,0)  
Photography Workshop/Project: PR: PGY 2655, PGY 2216 or C.I. Student personal projects incorporating photographic imagery. Emphasis on purposeful and well-conceived self-expression and discovery. Occasional. M&S fee: $45.00

PGY 5108C CAH-Art 3(2,4)  
Advanced Techniques and Concepts in Photography: PR: PGY 2401C, PGY 3410C and PGY 4420C, or admission into MFA Graduate Program. Advanced techniques and concepts in photography, introducing historic and contemporary photographic works. May be repeated for credit twice. Occasional.

PHH 3041 CAH-PHIIL 3(3,0)  
Russian Philosophy: PR: ENC 1102. A study of major themes and developments in Russian philosophy from the 18th century to the present, including critiques of culture, religion, society, and politics. Occasional.

PHH 3100 CAH-PHIIL 3(3,0)  
Ancient Philosophy: PR: PHI 3010 or C.I. Foundations of Western philosophy in ancient Greek thinking about human beings and nature, including the pre-Socratics, Socrates, Plato, Aristotle. Occasional.

PHH 3200 CAH-PHIIL 3(3,0)  
Medieval Philosophy: PR: PHI 3010 or C.I. The influence of Greek philosophical thought in medieval Muslim, Jewish and Christian philosophy, as expressed in its main problems and representative thinkers. Occasional.

PHH 3460 CAH-PHIIL 3(3,0)  
Modern Western Philosophy: PR: PHI 3010. Major western philosophers and philosophical movements from Descartes to Nietzsche. Even Fall.

PHH 3510 CAH-PHIIL 3(3,0)  
Marx and Nietzsche: PR: PHI 3010 or C.I. The importance of differences in outlook and emphasis, the significance of their respective critiques of society, the implications of their contrasting standpoints for understanding human life, the philosophical and ideological influences of their work, and their contemporary relevance. Occasional.

PHH 3600 CAH-PHIIL 3(3,0)  
Contemporary Philosophy: PR: PHI 3010 or C.I. Recent and current trends in philosophy, including philosophical analysis, phenomenology, structuralism, post-structuralism, and liberation theories. Occasional.

PHH 3700 CAH-PHIIL 3(3,0)  
American Philosophy: PR: PHI 3010 or AMH 3010 or AMH 2020 or C.I. A thematic and chronological survey of philosophical, religious, and scientific developments in American thought, with primary focus on the American spirit of individualism and reform. Even Spring.

PHH 3701 CAH-PHIIL 3(3,0)  
Native American Philosophy: PR: PHI 3010 or C.I. Academic Native American philosophy in epistemology, political philosophy and environmental studies. Even Fall.

PHI 2010 CAH-PHIIL 3(3,0)  
Introduction to Philosophy: PR: Permission of Honors. Same as PHI 2010 with honors-level content. Fall.

PHI 2011 CAH-PHIIL 3(3,0)  

PHI 2101 CAH-PHIIL 3(3,0)  
Formal Logic I: A study of sentence and predicate logics, with introduction to modal, epistemic, deontic, multi-valued, and indeterministic logics. Occasional.

PHI 2108 CAH-PHIIL 3(3,0)  

PHI 2630 CAH-PHIIL 3(3,0)  

PHI 2647 CAH-PHIIL 3(3,0)  
Logic and Ethics: PR: PHI 2011 or COT 3100 or MAD 2104. Research in logic applied to ethics, especially for science and technology. Uses of simulation and modeling to study philosophical problems in ethics. Occasional.

PHI 3022 CAH-PHIIL 3(3,0)  

PHI 3033 CAH-PHIIL 3(3,0)  
Philosophy, Religion, and the Environment: PR: Junior standing or C.I. A multicultural treatment of the influence of philosophical and religious views on our understanding of, and relation to, the environment. Occasional.

PHI 3083 CAH-PHIIL 3(3,0)  
Research Methods in Philosophy: PR: Philosophy or Humanities major or C.I. Sources, methods, and styles of research in Philosophy. Aimed at enhancing the research, reading, and writing skills of undergraduate philosophy students. Odd Fall.

PHI 3131 CAH-PHIIL 3(3,0)  

PHI 3320 CAH-PHIIL 3(3,0)  
Philosophy of Mind: PR: PHI 2010, PSY 2012, or C.I. Recent and contemporary attempts to understand the relation of mind to body, the relation of consciousness to personal identity, and the relation of psychology to neurobiology. Occasional.

PHI 3323 CAH-PHIIL 3(3,0)  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 3601</td>
<td>Practical Wisdom</td>
<td>1/1/0</td>
<td>CAH-PHI 1(1,0)</td>
<td>A radio course in applied ethics which focuses on the human good, dealing with the relationship between means and ends and how they define one another. Occasional.</td>
</tr>
<tr>
<td>PHI 3625</td>
<td>Virtual Ethics</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>The study of virtual worlds as contrasted to the physical world, the use of simulation, virtual environments, and modeling in philosophy, especially in ethics. Occasional.</td>
</tr>
<tr>
<td>PHI 3626</td>
<td>Advanced Ethics in Science and Technology</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>Critical thinking applied to ethics in science and technology. Fall, Spring.</td>
</tr>
<tr>
<td>PHI 3648</td>
<td>Ethical Implications of the Human Genome Project</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: BSC 2010, and either PHI 2010 or PHI 2630 or PHI 3670. Ethical issues surrounding the Human Genome Project, including genetic testing, genetic therapies, genetic enhancement, forensics, data banking, and genetic patenting. Occasional.</td>
</tr>
<tr>
<td>PHI 3670</td>
<td>Ethical Theory</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: Junior standing and C.I. Major classical and contemporary topics in ethics, including value theory, utilitarian, deontological, virtue-based and feminist approaches to ethics, rights, and justice; some examination of metaethical issues. Even Spring.</td>
</tr>
<tr>
<td>PHI 3672</td>
<td>Animal Ethics</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: PHI 2010 or C.I. Key issues and debates in the area of animal ethics, including both theoretical and applied dimensions. Occasional.</td>
</tr>
<tr>
<td>PHI 3683</td>
<td>Philosophy of Friendship</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: One of PHI 2010, PHI 3670, PHI 3638, or C.I. Philosophical aspects of friendship, focusing on its interpersonal, moral, social, and political significance and implications. Occasional.</td>
</tr>
<tr>
<td>PHI 3684</td>
<td>Ways of Living</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: HUM 2210 or HUM 2230 or C.I. Philosophes of life and the notion of “the good life.” Occasional.</td>
</tr>
<tr>
<td>PHI 3841</td>
<td>Philosophy Practicum</td>
<td>3/1/3</td>
<td>CAH-PHI 3/1/3</td>
<td>PR: C.I. Mentor at-risk grade schoolers and evaluate such work-related concepts as justice and fairness. Occasional.</td>
</tr>
<tr>
<td>PHI 4321</td>
<td>Philosophies of Embodiment</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: Junior standing and either PHI 2010, PHI 2111, PHI 2108, or C.I. Different ways of understanding relations between mind, body, and nature. Self-knowledge as articulated by western and non-western philosophies from ancient to contemporary times. Occasional.</td>
</tr>
<tr>
<td>PHI 4340</td>
<td>Ways of Knowing</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: PHI 2010 or C.I. Philosophic study of approaches to knowledge, with emphasis on contributions of the knower to how things are known. Fall.</td>
</tr>
<tr>
<td>PHI 4400</td>
<td>Philosophy of Science</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: PHI 2010 or C.I. Philosophic study of approaches to knowledge, with emphasis on contributions of the knower to how things are known. Fall.</td>
</tr>
<tr>
<td>PHI 4500</td>
<td>Metaphysics</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: Philosophy major or C.I. Topics include appearance and reality, actions and events, necessity and possibility, identity, nature of persons, mind-body dualism, causality, and free will and determinism. Occasional.</td>
</tr>
<tr>
<td>PHI 4633</td>
<td>Ethics and Biological Science</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: Completion of the GEP. An application of contemporary thinking to ethical issues arising from the biological sciences, including human and animal experimentation, genetic engineering, biodiversity. Occasional.</td>
</tr>
<tr>
<td>PHI 4690</td>
<td>Ethics in Nanoscience and Nanotechnology</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: Completion of GEP or Junior standing. Ethical implications of rapid developments in nanoscience and nanotechnology. Odd Fall.</td>
</tr>
<tr>
<td>PHI 4935</td>
<td>Topics in Philosophy of Mind</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: PHI 3320, PHI 3451 or PHI 3323 or C.I. Recent debate in philosophy of mind. Variable topics. Examples: mental representation, consciousness, concepts, free will. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>PHI 4938</td>
<td>Senior Research Seminar</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: Senior standing and Philosophy major. Capstone course on research, developing effective oral and written communication skills. Occasional.</td>
</tr>
<tr>
<td>PHI 4951</td>
<td>Portfolio</td>
<td>1/1/0</td>
<td>CAH-PHI 1/1/0</td>
<td>PR: C.I. Critical theory and cultural studies emphasizing current trends as they apply to arts in diverse media. Even Fall.</td>
</tr>
<tr>
<td>PHI 5225</td>
<td>Philosophy of Language</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: Admission to graduate certificate in Cognitive Sciences or C.I. Philosophy of the nature of language and relationships between language, reality, cognition, and culture. Occasional.</td>
</tr>
<tr>
<td>PHI 5325</td>
<td>Topics in Philosophy of Mind</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: Admission to graduate certificate in Cognitive Sciences or C.I. Contemporary issues in philosophy of mind, including explanatory gap, and the problem of other minds. Occasional.</td>
</tr>
<tr>
<td>PHI 5327</td>
<td>Topics in the Cognitive Sciences</td>
<td>3/3/0</td>
<td>CAH-PHI 3/3/0</td>
<td>PR: Admission to graduate certificate in Cognitive Sciences or C.I. Contemporary issues in philosophy of mind, including explanatory gap, and the problem of other minds. Occasional.</td>
</tr>
</tbody>
</table>
PHI 5328 CAH-PHIL 3(3,0)
Philosophies of Embodiment: PR: Admission to graduate certificate in Cognitive Sciences or C.I. Relations among mind, body, and nature. Knowledge of self, world and others as articulated by Western philosophy, with special emphasis on embodied cognition. Occasional.

PHI 5329 CAH-PHIL 3(3,0)
Philosophy of Neuroscience: PR: Admission to graduate certificate in Cognitive Sciences or C.I. Neurophilosophy, including discussion of promises and limitations of neuroscience for understanding of the mind. Occasional.

PHI 5340 CAH-PHIL 3(3,0)

PHI 5627 CAH-PHIL 3(3,0)
Theoretical and Applied Ethics: PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3640, or Graduate standing or CI. A seminar in theoretical and applied ethics with emphasis on application in professional fields. Variable content. Fall.

PHI 5665 CAH-PHIL 3(3,0)
Knowledge, Responsibility, and Society: PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, or Graduate standing or CI. A seminar in theoretical and applied ethics with emphasis on application in professional fields. Variable content. Fall.

PHM 3100 CAH-PHIL 3(3,0)
Freedom and Justice: Philosophical analysis and evaluation of selected issues arising from the interaction of the individual, society, and the state; includes topics such as freedom, equality, and justice. Occasional.

PHM 3123 CAH-PHIL 3(3,0)

PHM 3401 CAH-PHIL 3(3,0)
Philosophy of Law: PR: PHI 2010, PHI 2630, PHI 3670, or POS 2041. Study of the nature of, and justifications for, law and punishment. Examination of the concepts of legal personhood, rights and responsibilities. Spring.

PHM 4031 CAH-PHIL 3(3,0)
Environmental Philosophy: PR: PHI 3640, PHI 2630, or C.I. Major contemporary positions in environmental philosophy, including deep ecology, ecofeminism, and social ecology. Occasional.

PHM 5035 CAH-PHIL 3(3,0)
Environmental Philosophy: PR: PHI 3640, PHI 2630, graduate status or senior standing, or C.I. This course will provide an in-depth examination of the major contemporary positions in environmental philosophy, including deep ecology, ecofeminism, and social ecology. Occasional.

PHP 3781 CAH-PHIL 3(3,0)

PHP 3783 CAH-PHIL 3(3,0)
Modernity as a Philosophical Problem: PR: PHI 2010 or PHI 3640 or C.I. Modernity in the philosophies of Kant, Hegel, Nietzsche, Heidegger, Derrida, Rorty, and others. Occasional.

PHP 3786 CAH-PHIL 3(3,0)
Existentialism: Study of existentialist analysis and criticism of the human situation as found in the writings of such philosophers as Kierkegaard, Nietzsche, Heidegger, Sartre, and Camus. Fall. Odd Fall.

PHP 4782 CAH-PHIL 3(3,0)

PHT 3069 HPA-HP 1(1,0)

PHT 3069L HPA-HP 2(0,4)
Physical Assessment Lab: PR: PHT 3069. Lab course emphasizing the examinations required to perform an evaluation of a physical therapy patient. Occasional.

PHT 3112 HPA-HP 2(2,0)
Gross Anatomy/Neuroscience I: PR: Admission into the Physical Therapy program. CR: PHT 3112L. In-depth study of human morphology emphasizing the back, spinal cord, cranial nerves, and upper and lower extremities. Regional cadaver dissection. Occasional.

PHT 3112L HPA-HP 2(0,6)

PHT 3113 HPA-HP 2(2,0)
Gross Anatomy/Neuroscience II: PR: PHT 3112. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs. Occasional.

PHT 3113L HPA-HP 3(3,0)
Gross Anatomy/Neuroscience II Lab: CR: PHT 3113. Directed laboratory experiences with cadaver dissection; use of the skeleton, models, and computer programs to facilitate learning. Occasional.

PHT 3122 HPA-HP 3(3,0)
Clinical Kinesiology: CR: PHT 3122L. Mechanical aspects of human movement, including joint mechanics of the upper and lower extremity, the vertebral column, and tissue mechanics of relevant human tissues. Coordinated with cadaver dissection. Occasional.

PHT 3122L HPA-HP 2(0,6)

PHT 3155 HPA-HP 2(2,0)
Physiology of Therapeutic Exercise: CR: PHT 3155L. Exercise physiology investigating the physiological responses and adaptations to human movement including cardiovascular and pulmonary systems. Occasional.

PHT 3155L HPA-HP 2(0,4)
Physiology of Therapeutic Exercise Lab: CR: PHT 3155. Lab course emphasizing the clinical application of exercise physiology. Occasional.

PHT 3259 HPA-HP 2(2,0)

PHT 3259L HPA-HP 1(0,2)
Patient Care Skills Lab: CR: PHT 3259. Lab course covering basic skills of patient care; transfers, mobility skills, draping, gait training. Occasional.

PHT 3602 HPA-HP 2(2,0)

PHT 4119C HPA-HP 4(3,2)
Clinical Gross Anatomy: PR: ZOO 3733C and C.I. Review of human anatomical systems using cadavers and emphasizing clinical applications and pathologies. Fall. M&3 fee: $45.00

PHT 4222 HPA-HP 2(2,0)

PHT 4222L HPA-HP 1(0,2)

PHT 4230 HPA-HP 2(2,0)

PHT 4230L HPA-HP 1(0,2)

PHT 4307 HPA-HP 3(3,0)
Pathology/Pharmacology: PR: PHT 3133. Organized seminars on the pathophysiology and clinical manifestations of various medical conditions as they relate to medical management in physical therapy practice. Occasional.

PHT 4308 HPA-HP 2(2,0)
Medical Science and Pharmacology: CR: PHT 3133L. Focus on movement and posture of various orthopedic and neurological disorders; drugs used in their management. Relates neuropathology and orthopedic pathology to the study of movement. Occasional.

PHT 4610 HPA-HP 2(1,3)

PHT 5003 HPA-HP 2(2,0)
Foundations of Physical Therapy I: PR: Admission to the PT program. Introduction to the profession of physical therapy. Occasional.

PHT 5005 HPA-HP 2(2,0)
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHT 5115</td>
<td>Gross Anatomy/Neuroscience I</td>
<td>2(2,0)</td>
<td>In-depth study of human morphology emphasizing the brain, spinal cord, cranial nerves, and upper and lower extremeties. Regional cadaver dissection. Occasional.</td>
</tr>
<tr>
<td>PHT 5115L</td>
<td>Gross Anatomy/Neuroscience I Lab</td>
<td>2(0,4)</td>
<td>Lab. Directed Laboratory experiences with cadaver dissection; use of the skeleton, models, and computer programs to facilitate learning. Occasional. M&amp;S fee: $45.00</td>
</tr>
<tr>
<td>PHT 5118</td>
<td>Gross Anatomy/Neuroscience II</td>
<td>2(2,0)</td>
<td>In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs. Fall.</td>
</tr>
<tr>
<td>PHT 5118L</td>
<td>Gross Anatomy/Neuroscience II Lab</td>
<td>2(0,4)</td>
<td>Lab. Directed Laboratory experiences with cadaver dissection; use of the skeleton, models, and computer programs to facilitate learning. Fall. M&amp;S fee: $45.00</td>
</tr>
<tr>
<td>PHT 5125</td>
<td>Clinical Kinesiology: CR: PHT 5125L</td>
<td>2(2,0)</td>
<td>Investigates the mechanical aspects of human movement, joint mechanics of the upper and lower extremity, vertebral column and tissue mechanics of relevant human tissues. Occasional. M&amp;S fee: $15.00</td>
</tr>
<tr>
<td>PHT 5125L</td>
<td>Clinical Kinesiology Lab: CR: PHT 5125</td>
<td>2(0,2)</td>
<td>Concerned with the theoretical and practical application of aspects of human movement, joint mechanics of the upper and lower extremity, vertebral column and soft tissues. Occasional. M&amp;S fee: $15.00</td>
</tr>
<tr>
<td>PHT 5156</td>
<td>Physiology of Therapeutic Exercise: PR: Admission to PT program. Exercise physiology investigates the physiological responses and adaptations to human movement including cardiovascular and pulmonary. Occasional.</td>
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</tr>
<tr>
<td>PHT 5156L</td>
<td>Physiology of Therapeutic Exercise Lab: CR: PHT 5156</td>
<td>2(0,4)</td>
<td>Lab course emphasizing the clinical application of exercise physiology. Occasional. M&amp;S fee: $15.00</td>
</tr>
<tr>
<td>PHT 5218</td>
<td>Theories and Procedures I: PR: CR Theories and Procedures I Lab. Theories of physical agents, heat, light, cold, water, sound, and massage; problem solving rational and selection of interventions for inflammation, pain, edema, and weakness. Spring. M&amp;S fee: $15.00</td>
<td></td>
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<tr>
<td>PHT 5218L</td>
<td>Theories and Procedures I Lab: PR: CR Theories and Procedures I Lab course on the clinical applications of heat, light, cold, water, sound, and massage. Spring. M&amp;S fee: $15.00</td>
<td></td>
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<tr>
<td>PHT 5240L</td>
<td>Physical Assessment Lab: PR: CR Physical Assessment. Lab course emphasizing the examinations required to perform an evaluation of physical therapy patient. Fall. M&amp;S fee: $25.00</td>
<td></td>
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<tr>
<td>PHT 5241L</td>
<td>Therapeutic Exercise Lab I: PR: CR Therapeutic Exercise I Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction. Spring. M&amp;S fee: $15.00</td>
<td></td>
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<tr>
<td>PHT 5260</td>
<td>Patient Care Skills: CR: Patient Care Skills Lab. Affective, cognitive, and psychomotor skills, regarding patient care. Basic skills of patient care, transfers, mobility skills, dressing, gait training. Fall.</td>
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<tr>
<td>PHT 5260L</td>
<td>Patient Care Skills Lab: CR: Patient Care Skills Lab. Skills of patient care, transfers, mobility skills. Fall. M&amp;S fee: $25.00</td>
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<tr>
<td>PHT 5306</td>
<td>Pathology/Pharmacology: PR: Admission to PT program. Organized seminars on the pathophysiology and clinical manifestations of various medical conditions as they related to medical management in physical therapy practice. Occasional.</td>
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<tr>
<td>PHT 5411</td>
<td>Foundations of Physical Therapy I: This course emphasized the psychosocial aspects of disability. Focus on cultural diversity issues, communication skills, and different styles of learning and teaching. Occasional.</td>
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<tr>
<td>PHT 5718L</td>
<td>Neurological Physical Therapy Lab: PR: CR Neurological Physical Therapy Lab Course emphasizing the clinical application of selected neuromotor theories. Occasional. M&amp;S fee: $15.00</td>
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<tr>
<td>PHT 5722C</td>
<td>Physical Therapy Integration I: PR: Admission to PT program. Problem solving approach to selected dysfunctions, including burns and open wounds, and selected diagnostic procedures and therapy interventions. Occasional. M&amp;S fee: $15.00</td>
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<tr>
<td>PHT 5805</td>
<td>Clinical Education I: PR: Admission to PT program. Full-time supervised clinical education in physical therapy settings. Application of objectives of courses previously completed. Graded SU. Spring.</td>
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<tr>
<td>PHY 2048</td>
<td>Physics for Engineers and Scientists I: PR: MAC 2311 or equivalent. Same as PHY 2048L with honors-level content. Occasional.</td>
<td></td>
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<tr>
<td>PHY 2048L</td>
<td>Physics for Engineers and Scientists I: PR: MAC 2311 or equivalent. Same as PHY 2048L with honors-level content. Occasional.</td>
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<tr>
<td>PHY 2049</td>
<td>Physics for Engineers and Scientists II: PR: MAC 2312 and PHY 2048 or PHY 2048L. Electricity, magnetism, optics. Fall, Spring.</td>
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<tr>
<td>PHY 2049L</td>
<td>Physics for Engineers and Scientists II: PR: MAC 2312 and PHY 2048 or PHY 2048L. Electricity, magnetism, optics. Fall, Spring.</td>
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<tr>
<td>PHY 2049H</td>
<td>Physics for Engineers and Scientists II: PR: Permission of Honors and PHY 2048, MAC 2312. Same as PHY 2049 with honors-level content. Occasional.</td>
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<tr>
<td>PHY 2053C</td>
<td>College Physics I: PR: MAC 1105 and MAC 1141 or equivalent or C.I. Mechanics, waves, thermodynamics. Fall, Spring. M&amp;S fee: $15.00</td>
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<tr>
<td>PHY 2054C</td>
<td>College Physics II: PR: PHY 2053C. Fluids, electricity and magnetism, optics, x-rays, radioactivity. Fall, Spring. M&amp;S fee: $15.00</td>
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<tr>
<td>PHY 2070</td>
<td>Physics Today: CR: PHY 2048 or PHY 2048L. Fundamental physics principles behind recent developments in physics research will be presented in a seminar format. May be repeated for credit. Occasional.</td>
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<tr>
<td>PHY 3101</td>
<td>Physics for Engineers and Scientists III: PR: MAC 2313 and PHY 2049 or PHY 2049L. Thermodynamics, oscillations, modern physics. Fall, Spring.</td>
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<tr>
<td>PHY 3110H</td>
<td>Honors Physics for Engineers and Scientists III: PR: Permission of Honors and PHY 2049 or PHY 2049L. Same as PHY 3101 with honors-level content. Occasional.</td>
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<tr>
<td>PHY 3220</td>
<td>Mechanics: PR: PHY 2048 or PHY 2048L. Particle dynamics, rigid bodies, Lagrangian formulation of mechanics, Hamilton’s equations. Spring.</td>
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<tr>
<td>PHY 3513</td>
<td>Thermal and Statistical Physics: PR: PHY 3101 or PHY 3110H or C.I. Thermodynamics, kinetic theory, elements of statistical mechanics. Fall.</td>
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</tbody>
</table>
UCF Courses and Descriptions


PHY 3802I COS-PHYS 3(1.5) Intermediate Physics Laboratory: PR: PHY 3101 or C.I. Laboratory work in basic measurements of physical constants; experiments in electronics, modern physics, nuclear physics, optics, and solid state physics. May be repeated for credit. Fall.


PHY 4424L COS-PHYS 3(0.3) Optical Physics Laboratory: A laboratory course on geometric optics, interference, diffraction, materials and modern optics. Occasional.


PHY 4604 COS-PHYS 3(3.0) Wave Mechanics I: PR: PHY 4605, and graduate status or C.I. Theoretical fundamentals and physical implementations of quantum mechanics, perturbation theory, scattering theory, identical particles. Spring.


PHY 4803L COS-PHYS 3(1.5) Advanced Physics Laboratory: PR: PHY 3802L. Experiments in optics, electronics, nuclear and solid state physics. Emphasis on design, data, and scientific writing. Occasional. M&S fee: $15.00


PHY 5015C COS-PHYS 3(2.2) Physics for Teachers II: PR: Graduate status or senior standing or C.I. “Hands-on” lecture-laboratory course. Dynamics, electricity, magnetism, optics, nuclear radiation. Occasional.

PHY 5100 COS-PHYS 1(1.0) Topics in Contemporary Physics for Teachers: PR: Graduate status or senior standing or C.I. The study of recent findings in a selected area such as particle physics, surface physics, planetary atmospheres, lasers, geo-physics, etc. May be repeated for credit. Occasional.

PHY 5140C COS-PHYS 3(3.2) Ion-Solid Interactions: PR: PHY 4604 or PHY 4324. Graduate status or senior standing, or C.I. Physical principals and related scientific and technological applications of ion-solid interactions. Odd Spring.

PHY 5200C COS-PHYS 1(0,5,1.5) Newtonian Mechanics for Teachers: PR: Graduate status or senior standing or C.I. A lab, lecture, demonstration course studying selected topics in classical mechanics. Occasional.

PHY 5300C COS-PHYS 1(0,5,1.5) Electricity for Teachers: PR: Graduate status or senior standing or C.I. Circuits, multimeters, oscilloscopes, circuit elements. Occasional.

PHY 5302C COS-PHYS 1(0,5,1.5) Electromagnetism for Teachers: PR: Graduate status or senior standing or C.I. Basic postulates of quantum theory, quantum mechanics, perturbation theory, scattering theory, and related scientific and technological applications of ion-solid interactions. Odd Spring.

PHY 5400C COS-PHYS 1(0,5,1.5) Optics for Teachers: PR: Graduate status or senior standing or C.I. Geometrical and physical optics, spectrometers and lasers. Occasional.

PHY 5465C COS-PHYS 1(0,5,1.5) Wave Motion for Teachers: PR: Graduate status or senior standing or C.I. Water waves, waves on strings, sound and vibrations. Occasional.

PHY 5500C COS-PHYS 1(0,5,1.5) Thermal Physics for Teachers: PR: Graduate status or senior standing or C.I. Engines, heat pumps, kinetic theory, phase changes, radiation, weather. Occasional.

PHY 5524 COS-PHYS 3(3.0) Statistical Physics: PR: PHY 3513, STA 3032, and graduate status or senior standing or C.I. A study of physical concepts and methods appropriate for the description of systems involving many particles. Ensemble theory, partition functions. Maxwell Boltzmann, Bose-Einstein, Fermi-Dirac statistics. Spring.

PHY 5606 COS-PHYS 3(3.0) Quantum Mechanics I: PR: PHY 4605, and graduate status or senior standing or C.I. Basic postulates of quantum mechanics, operators, eigenvalues, parity, potential wells, harmonic oscillator, time dependent and time independent Schrodinger equation, matrix formulation, and time independent perturbation theory. Fall.

PHY 5650 COS-PHYS 3(3.0) Introduction to Quantum Computation: PR: C.I. Theoretical fundamentals and physical implementations of quantum computation for science and engineering students. Occasional.

PHY 5817L COS-PHYS 1(0,3) Building Physics Apparatus: PR: Graduate standing or senior standing and C.I. Hands-on shop course. Focus will be machine shop practice with possible extension to printed circuit boards and glass work. Occasional. M&S fee: $45.00

PHY 5846C COS-PHYS 3(3,3) Methods of Experimental Physics: PR: Graduate status or senior standing or C.I. Introduction to methods of experimental physics, including instrumental design, data acquisition, vacuum, cryogenics, sample preparation, nuclear physics, transport, and spectroscopy. Fall, Spring.

PHY 5933 COS-PHYS 3(3.0) Selected topics in biophysics of macromolecules: PR: PHY 3101, CHM 2046, and graduate status or senior standing or C.I. 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. Occasional.

PHZ 3113 COS-PHYS 3(3.0) Introduction to Theoretical Methods of Physics: PR: MAP 2302. Analytical techniques to solve problems of physics. Spring.


PHZ 3422 COS-PHYS 3(3.0) Nanophysics: PR: PHY 2040 or C.I. Physical phenomena occurring in nanometer-length scale, including nano colloids, and nano transport. Occasional.

PHZ 5156 COS-PHYS 3(3.0) Computational Physics: PR: PHZ 3151 or C.I. Computational methods applied to the solution of problems in many branches of physics. May be repeated for credit. Fall.

PHZ 5304 COS-PHYS 3(3.0) Nuclear and Particle Physics: PR: PHY 4604 or equivalent, and graduate status or senior standing or C.I. Particles and nuclei, symmetries and conservation laws, interactions, models. Occasional.

PHZ 5405 COS-PHYS 3(3.0) Condensed Matter Physics: PR: PHY 4604, PHY 3101, and graduate status or senior standing or C.I. Crystal lattice cell structure, phonons, free electron model, band theory of solids, Fermi surface, solid state applications, and polymers. Occasional.

PHZ 5425C COS-PHYS 3(3.3) Electron Solid Interactions: PR: Undergraduate senior or graduate status or C.I. The physics and applications of electron interactions with solids. Classroom and hands-on laboratory. Occasional.


PHZ 5505 COS-PHYS 3(3.0) Plasma Physics: PR: PHY 4324, and graduate status or senior standing or C.I. Introduction to theory and experimental basis of both weakly and highly ionized plasmas. Instabilities, plasma waves, nonlinear effects, controlled thermonuclear fusion. Occasional.

PHZ 5600 COS-PHYS 1(1.0) Special Relativity for Teachers: PR: Graduate status or senior standing or C.I. Length contraction, time dilation, simultaneity, conservation of mass-energy, conservation of momentum, Compton scattering. Occasional.
PLA 3013      HPA-C/LS      3(3,0)  
Law and the Legal System: A survey course designed to familiarize the student with the American legal system, ethical considerations, terminology, legal reasoning, and the role of the legal assistant. Fall, Spring.

PLA 3104      HPA-C/LS      3(3,0)  
Legal Research: PR: PLA 3013 or C.I. A study of the various research tools used in legal investigation and the methods used to conduct legal research. Fall, Spring.

PLA 3155      HPA-C/LS      3(3,0)  
Legal Writing: PR: PLA 3104. A study of legal writing format and technique and the preparation of memoranda and other legal documents, using research skills learned in PLA 3104. Fall, Spring.

PLA 3201      HPA-C/LS      3(3,0)  
Civil Practice and Procedure: PR: PLA 3013 or C.I. The student becomes familiar with the Florida civil procedure before trial and acquires the ability to prepare basic pleadings. Fall, Spring.

PLA 3201H     HPA-C/LS      3(3,0)  
Civil Practice and Procedure - Honors: PR: Permission of Honors and PLA 3013 or C.I. Same as PLA 3201 with honors level content. Occasional.

PLA 3273      HPA-C/LS      3(3,0)  
The Law of Torts: PR: PLA 3013 or C.I. Theories governing liability for civil injuries not arising from contractual obligations; systems and procedures used in preparation, trial and appeal of torts cases. Fall, Spring.

PLA 3304      HPA-C/LS      3(3,0)  
Criminal Law: Basic concepts of substantive criminal law. The course includes examination of elements of major crimes, criminal responsibility, legal defenses, and parties to crime. Fall, Spring.

PLA 3308      HPA-C/LS      3(3,0)  
Criminal Procedure: PR: PLA 3013 or CCJ 3024 or C.I. Rules of criminal procedure, with emphasis on Florida rules, including right to counsel, bail, search and seizure, arrest, identification, trial, and post-trial proceedings. Fall, Spring.

PLA 3610      HPA-C/LS      3(3,0)  
Property and Real Estate Law: PR: PLA 3013. Study of the law of real and personal property; real estate transactions and conveyances; closing procedures and title problems. Fall, Spring.

PLA 4020      HPA-C/LS      3(3,0)  
Law and Society: Examination of the relationship between law and American society including the impact on the legal system and legal profession of major social movements. Occasional.

PLA 4223      HPA-C/LS      3(3,0)  
Advanced Trial Advocacy: PR: PLA 4010 or C.I. Litigation and trials at an advanced level; students must handle trial from beginning to end. May be repeated for credit. Occasional.

PLA 4240      HPA-C/LS      3(3,0)  

PLA 4263      HPA-C/LS      3(3,0)  
Evidence: PR: PLA 3013 and 3201 or C.I. An examination of statutes and cases that define rules of evidence for trial courts. Primary emphasis is on the Florida Evidence Code. Fall, Spring.

PLA 4423      HPA-C/LS      3(3,0)  
The Law of Contracts: Study of the basic law of contracts as developed in Anglo-American law and as changed by modern statutes, including the Uniform Commercial Code. Florida contract law will be emphasized. Fall, Spring.

PLA 4433      HPA-C/LS      3(3,0)  
Florida Partnerships and Corporations: Statutory requirements of Florida partnerships and corporations; creation and dissolution of business organizations, responsibilities of officers and basic rights of stockholders. Fall, Spring.

PLA 4460      HPA-C/LS      3(3,0)  
Bankruptcy Law: PR: C.I. This course will acquaint the student with the substantive law and procedures associated with the rights and obligations of debtors and creditors. Occasional.

PLA 4472      HPA-C/LS      3(3,0)  
Employment Discrimination Law: PR: C.I. Course will address employment discrimination based on race, gender, religion, national origin, age, disability and sexual orientation. Issues such as workplace harassment will be analyzed. Occasional.

PLA 4483      HPA-C/LS      3(3,0)  
Administrative Law: PR: PLA 3012 or PAD 3003. The law regarding governmental agencies with emphasis on the administrative process, Administrative Procedures Acts and special problems of state administrative law. Fall, Spring.

PLA 4530      HPA-C/LS      3(3,0)  
Legal Issues of the Elderly: PR: PLA 3013. Legal concerns faced by older Americans as they plan their later years and seek to maximize their personal autonomy. Occasional.

PLA 4583      HPA-C/LS      3(3,0)  

PLA 4583H     HPA-C/LS      3(3,0)  
Honors Cyber Law: PR: Honors GEP completion or consent of The Burnett Honors College. Copyright, trademark, patent issues in cyberspace; online dispute resolution, privacy, and free speech topics. With Honors Content. Occasional.

PLA 4601      HPA-C/LS      3(3,0)  
Estates and Trusts: PR: PLA 3013, PLA 3610. A study of wills and trusts, and applicable legal principles of administration of estates through the processes of the Probate Court. Fall, Spring.

PLA 4602      HPA-C/LS      3(3,0)  
Estate Administration: PR: PLA 4601. Study of the laws and procedures applicable to administration of estates. Occasional.

PLA 4631      HPA-C/LS      3(3,0)  
Land Use and Environmental Law: PR: PLA 3013, PLA 3610. Study of the law relating to private and public restraints on land use, including planning, zoning, subdivision and building regulations, with emphasis on recent interpretations by judiciary for environmental protection. Occasional.

PLA 4700      HPA-C/LS      3(3,0)  

PLA 4710      HPA-C/LS      1(1,0)  
Careers in Legal Studies: PR: Major in Legal Studies or C.I. Applications of Legal Studies. Students will explore options in legal studies, professional development, and ethics. Graded S/U. Occasional.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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</tr>
</thead>
<tbody>
<tr>
<td>POS 3253</td>
<td>Contemporary Revolution and Political Violence: Theories and cases of political violence in the contemporary world.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 3258</td>
<td>Politics in Film: The influence of motion pictures on popular understanding of American and international politics.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 3273</td>
<td>Voting and Elections: Theoretical and substantive inquiry into U.S. electoral system; includes focus on voter behavior as well as national and state electoral systems.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 3413</td>
<td>The American Presidency: Examination of the presidential process and the Office's evolution in status, powers, administrative responsibilities, leadership, and decision-making.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 3424</td>
<td>Congress and the Legislative Process: Examination of Congress as an institution undergoing dynamic change; emphasis upon recruitment of legislators, institutional and informal rules, the committee system, legislative procedures.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 3443</td>
<td>Political Parties and Processes: In-depth study of the American political party system in the context of changing American politics; topics include development, organization, reforms, legislative and executive roles.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 3463</td>
<td>Interest Groups: Analyzes the non-electoral behavior of economics, ideological, and citizen groups; political action committees; and the proliferation of interest organizations over the past quarter century.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 3627</td>
<td>Cultural Pluralism and Law: A case law approach to the legal and constitutional aspects of historical and current issues facing minorities in the U.S.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 3703</td>
<td>Scope and Methods of Political Science: Development of an understanding of political analysis. Extensive examination of the discipline, research design and methodology, Fall.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 3949</td>
<td>Cooperative Education in Political Science: Departmental permission required before registering.</td>
<td>0(0,8)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 4074</td>
<td>Latino Politics: Political characteristics of the Latino community in the United States and its impact on U.S. national and international politics and policies.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 4142</td>
<td>Metropolitan Politics: Analysis of political patterns, processes, and issues in American communities. Intergovernmental relations and structural and political arrangements in the existing and emerging metropolitan areas.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 4204</td>
<td>Political Behavior: The influence of political behavior on voting and participation, primarily in the United States.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 4206</td>
<td>Political Psychology: The psychological analysis of political behavior with emphasis on the individual rather than the political system; includes political attitudes and communication, leadership, and personality influences on politics.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 4246</td>
<td>Political Socialization: In-depth study of the political processes and political socialization in national and cross-cultural contexts.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 4284</td>
<td>Judicial Process and Politics: Study of the formal and informal judicial process. Legal culture, bureaucratic model, judicial recruitment and outputs, comparative judicial behavior.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 4412</td>
<td>Presidential Campaigning: Introduction to the process of candidate selection, convention behavior, actual campaign process and the transition of power.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 4603</td>
<td>American Constitutional Law: Development of American federalism and national power, commerce clause, and nationalization of the economy.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 4604</td>
<td>American Constitutional Law II: Development of civil liberties and civil rights in the American federal system.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 4622</td>
<td>Politics and Civil Rights: Junior standing or C.I. Examination of civil rights issues in the context of political behavior, political institutions and public policy since 1865.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 4742</td>
<td>Geographic Information Systems for the Political Scientist: Theoretical assumptions, analytical possibilities, and application of Geographic Information Systems (GIS) for political science research.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POS 4941L</td>
<td>Political Science Internship: C.I. Internship working with the national, state, county or municipal government. Assignments with selected civic organizations, elected or appointed officials.</td>
<td>3-9(3,9)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POT 3204</td>
<td>American Political Thought: From its sources to the 20th century, including liberalism, Marxism, the Federalist, the rise of industrialism, resulting social movements, modern variations.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
<tr>
<td>POT 3302</td>
<td>Modern Political Ideologies: A study of modern ideologies since the French Revolution including liberalism, conservatism, capitalism, nationalism, fascism and anarchism.</td>
<td>3(3,0)</td>
<td>Spring.</td>
</tr>
<tr>
<td>POT 4003</td>
<td>Political Theory: Examination of various normative approaches to the study of political science.</td>
<td>3(3,0)</td>
<td>Occasional.</td>
</tr>
</tbody>
</table>
POT 4025 COS-POLS 3(3,0)  
Ancient, Medieval and Early Modern Political Philosophy: Study of the development of political and social ideas in western thought from early Greece through the 17th century. Occasional.

POT 4054 COS-POLS 3(3,0)  
Modern Political Philosophy: Study of the development of political and social ideas from the 18th century to the present. May be taken independently of POT 4045 (Ancient, Medieval and Early Modern Political Philosophy). Occasional.

POT 4066 COS-POLS 3(3,0)  
Contemporary Political Theory: PR: Junior standing or C.I. Study of the contemporary debate about the status of rights, utilitarianism, and liberalism, and community thought of Burnett Honors College. Theoretical frameworks and political behavior, and the religious origins of contemporary utopias and dystopias. Occasional.

POT 4109 COS-POLS 3(3,0)  
Politics and Literature: PR: Junior standing. An examination of politics and the political process through the medium of literature. Occasional.

POT 4305 COS-POLS 3(3,0)  
The State, Society, and the Individual: PR: Junior standing or C.I. The relationship between the state, society, and the individual by discussing the works of major authors from Adam Smith to Robert Aynrod. Odd Fall.

POT 4314 COS-POLS 3(3,0)  
Contemporary Democratic Theory: PR: POS 2041 or C.I. Study of democratic theories, emphasizing liberal democracy and its critics, elitist theories, participatory democracy, citizen participation, and relevance of empirical research to democratic theory. Occasional.

POT 4331 COS-POLS 3(3,0)  
Utopia/Dystopia: PR: POS 2041 or C.I. Examines political issues, such as justice, economic distribution and social organization by exploring both classic and contemporary utopias and dystopias. Occasional.

POT 4345 COS-POLS 3(3,0)  
Pan-Africanist Thought: PR: INR 2002. Philosophical assumptions, theoretical frameworks, ideological orientations and social-political thinkers who have contributed to the tradition of Pan-Africanist thought. Occasional.

POT 4414 COS-POLS 3(3,0)  
Marxist Political Theory: Survey of Marx & Engels and other thinkers, exposing the theoretical underpinnings of nations and groups who have adapted marxist principles for governance. Occasional.

POT 4632 COS-POLS 3(3,0)  
Religion and Politics: PR: Junior standing. Institutional and individual relationship of religion and politics including globalization, fundamentalism, secularization, American exceptionalism, political behavior, and the religious origins of current secular concepts. Occasional.

PPE 3003 COS-PSYCH 3(3,0)  


PPE 5055 COS-PSYCH 3(3,0)  
Personality Theories: PR: Graduate status or senior standing or C.I. Critical theoretical models of personality development with applications to counseling, psychotherapy and psychological assessment. Occasional.

PSB 3002 COS-PSYCH 3(3,0)  
Physiological Psychology: PR: PSY 2012. The physiological basis of behavior, emphasizing the relationship between the nervous system and behavior. Fall, Spring.

PSB 3441 COS-PSYCH 3(3,0)  

PSB 3842 COS-PSYCH 3(3,0)  

PSB 4103C COS-PSYCH 3(2,2)  

PSB 4240C COS-PSYCH 4(3,2)  

PSB 4422 COS-PSYCH 4(2,2)  

PSB 5005 COS-PSYCH 3(3,0)  
Physiological Psychology: PR: PSY 3002 and graduate status or senior standing or C.I. An advanced survey of the physiological basis of behavior, emphasizing the relationship between the nervous system and behavior. Occasional.

PSC 1121 COS-PHYS 3(3,0)  
Physical Science: PR: MAC 1105 or MGF 1106. Fundamental laws of mechanics, heat, waves, electricity, magnetism; chemical processes and equations, properties of gases, liquids, solids, solutions. Fall, Spring. M&S fee: $2.20

PSC 1121H COS-PHYS 3(3,0)  
Honors Physical Science: PR: Permission of Honors and MAC 1105 or MGF 1106. PSC 1121 with Honors-level content. Occasional.

PSC 1121L COS-PHYS 1(0,2)  
Physical Science Lab: CR: PSC 1121. Experiments to apply the scientific method to observation and analysis in mechanics, heat, light, electricity and magnetism, chemical and physical transformations. Fall, Spring. M&S fee: $10.00

PSY 2012 COS-PSYCH 3(3,0)  
General Psychology: A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity. Fall, Spring.

PSY 2012H COS-PSYCH 3(3,0)  
Honors General Psychology: PR: Permission of Honors. A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity. Honors-level content. Fall, Spring.

PSY 2023 COS-PSYCH 1(1,0)  

PSY 3022C COS-PSYCH 3(1,8)  

PSY 3028 COS-PSYCH 3(3,0)  
Psychology of Career Development: PR: PSY 2012 or C.I. Review of career development theories and current psychological literature on career decision-making. Examination of career development in psychology including educational entry requirements and related issues. Occasional.

PSY 3204 COS-PSYCH 4(3,2)  
Statistical Methods in Psychology: PR: STA 2014C or STA 2023. Standard scores, confidence intervals, sampling distributions, hypothesis testing, correlation and regression as applied to research in psychology. Occasional.

PSY 3213C COS-PSYCH 4(3,2)  
Research Methods in Psychology: PR: PSY 2012 and STA 2014C or STA 2023. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format. Fall. Spring. M&S fee: $20.00

PSY 3213H COS-PSYCH 4(3,2)  

PSY 3302 COS-PSYCH 3(3,0)  

PSY 3320C COS-PSYCH 3(2,2)  

PSY 3624 COS-PSYCH 3(3,0)  

PSY 3630 COS-PSYCH 3(3,0)  

PSY 3951 COS-PSYCH 1.9(3-30)  
Undergraduate Field Work: PR: Senior standing and C.I. Placement in a community agency for supervised experience in applications of psychology to community problems. May be repeated for credit. Graded S/U. Fall, Spring.

PSY 4025 COS-PSYCH 3(3,0)  
The Psychology of Art: PR: PSY 2012, and ARH 2050 or ARH 2051. Discussion of the psychological perspectives on art to gain a greater understanding and enhanced appreciation for the process and products of creativity. Occasional.
PSY 4213L COS-PSYCH 3(0.3) Advanced Research Methods Statistical Lab: PR: PSY 3213C and CR: PSY 4213C. Data analysis and research reporting procedures. Experience in analyzing and explaining the methods and results used in research reports. Occasional. M&S fee: $15.00

PSY 4215C COS-PSYCH 4(3.2) Advanced Research Methods in Psychology: PR: PSY 3215C. Design, analysis, and interpretation of complex research projects in psychology. Fall, Spring. M&S fee: $20.00

PSY 4305C COS-PSYCH 3(1.4) Advanced Psychological Measurement: PR: or CR: PSY 3302. Application of the theory underlying psychological test and measurement procedures, including reliability, validity, and item analysis. Occasional.

PSY 4604 COS-PSYCH 3(3.0) History and Systems of Psychology: PR: EXP 3404 and PPE 3003. Historical development of psychology, with emphasis on classical theoretical positions. Occasional.

PSY 5605 COS-PSYCH 3(3.0) History and Systems of Psychology: PR: Acceptance to Clinical Psychology Ph.D. program or C.I. An examination of modern American psychology from its origins in the late 19th century to the present time. This course is intended for the Ph.D. in Clinical Psychology; in certain instances graduate students in other programs may enroll. Odd Fall.

PUP 3014 COS-POLS 3(3.0) Comparative Public Policy: PR: POS 2041 or CPO 3103 or C.I. Areas of public policy such as immigration, education, trade, taxation, and fiscal policy in selected countries. Occasional.

PUP 3203 COS-POLS 3(3.0) Environmental Politics: PR: POS 2041 or C.I. An examination of politics and policy-making concerning issues of conservation, pollution and development of land, air, and water resources. Odd Fall.

PUP 3314 COS-POLS 3(3.0) Minorities in American Politics: Historical and contemporary role of minority groups in the American political process, including an examination of their electoral significance and relevant legislative, executive, and judicial policies. Occasional.

PUP 3325 COS-POLS 3(3.0) Women and Political Behavior: PR: POS 2041 or C.I. Women's role in the political process, emphasizing women in the governmental and policy process. Odd Fall.

PUP 3508 COS-POLS 3(3.0) Space Studies: PR: Junior standing or C.I. Multidisciplinary overview of space studies, providing familiarity with some technical aspects as well as the relationship between technical and public policy considerations. Occasional.

PUP 4003 COS-POLS 3(3.0) American Public Policy: PR: POS 2041 or C.I. Policy formation, implementation and evaluation, with a focus upon contemporary American problems, including the malapportionment of societal power and social conflict. Occasional.

PUP 4204 COS-POLS 3(3.0) Sustainability: PR: POS 2041 or C.I. Environmental politics through the lens of “sustainability.” Attention devoted to the relationships of culture, economics, and ecology. Odd Fall.

PUP 4209 COS-POLS 3(3.0) Urban Environmental Policy: PR: POS 2041. Public policy, ecology, and the urban political landscape explored by tracing their development and prospects for sustainable cities. Occasional.

PUP 4323 COS-POLS 3(3.0) Women and Public Policy: PR: POS 2041 or C.I. Public policies and processes that achieve a disparate impact on women and women’s lives in the United States. Occasional.

PUP 4404 COS-POLS 3(3.0) Education and Politics: PR: Junior standing or C.I. Western education and the connection between citizenship and education, education funding, and the politics of education reform. Occasional.

PUP 4503 COS-POLS 3(3.0) Government and Science: PR: C.I. Examination of inter- face between science and government. Focus is upon governmental support for science, social accountability, and the role of the scientist-policy maker in comparative context. Occasional.

PUP 4510 COS-POLS 3(3.0) Space Policy: An examination of the politics and policy-making involving with the US space program in the context of domestic demands and other international space programs. Even Fall.

PUP 4602 COS-POLS 3(3.0) Politics of Health: PR: C.I. Analysis of public health policies. Primary focus upon political processes, policymakers, and interest group interventions, including consumers and policy outcomes. Comparative health policies. Occasional.

PUP 4744 COS-POLS 3(3.0) Government and Business: PR: Junior standing or C.I. Analysis of public policies regarding business. Study includes various levels of government including international organizations. Occasional.

PUP 4931 COS-POLS 3(3.0) Topics in Public Policy: Intensive analysis of a current policy problem. Sample topics include education, growth management, housing, affirmative action, welfare, and transportation. May be repeated once. Occasional.

PUR 3100 COS-COMM 3(2,1) Writing for Public Relations: PR: AdPR Majors only. Development of skills in writing for public relations. Fall, Spring.

PUR 4000 COS-COMM 3(3.0) Public Relations: PR: SPC 1600. Principles and practice of Public Relations including techniques, research tools, industry standards, and management. Fall, Spring.

PUR 4110C COS-COMM 3(1,3) Public Relations Publications: PR: ENC 2210 or PUR 3100 or JOU 2100C or ENC 3200. Basic principles and techniques of desktop production of public relations publications. Fall, Spring.

PUR 4203 COS-COMM 3(3.0) PR/Advertising Ethics and Law: PR: Admitted to the Advertising/Public Relations B.A. and ADV 3000. Legal precedents applicable to advertising and public relations as well as ethical considerations for both. Fall, Spring.

PUR 4800 COS-COMM 3(3.0) Public Relations Campaigns: PR: Majors only. PUR 4000 or C.I. Planning and execution of public relations campaigns for profit and non-profit organizations. Occasional.

PUR 4801 COS-COMM 3(3.0) Public Relations Case Studies: PR: AdPR majors only and PUR 4000 or C.I. Discussion and analysis of public relations cases highlighting the application of PR theory to advance organizational goals. Fall, Spring.


RAT 3242 HPA-HP 2(2.0) Oncologic Pathology: PR: Acceptance to program. Study of neoplastic diseases, including causative factors, characteristics, histologic grading, staging and treatment. Occasional.


RAT 4247 HPA-HP 3(3.0) Radiation Oncology I: Methods of radiation therapy treatment of malignant conditions of the skin, oral cavity, pharynx, sinuses, thyroid, digestive and respiratory systems. Occasional.

RAT 4248 HPA-HP 3(3.0) Radiation Oncology II: Methods of treatment of malignant conditions of the nervous system, eye, reproductive system, urinary system, connective tissue, and lympho-reticular system. Occasional.


RAT 4619C HPA-HP 4(4,3) Radiation Therapy Physics III: PR: RAT 4618C. Study of treatment planning principles and techniques, including multiple beam therapy, rotation therapy, arc therapy, and irregular field techniques. Occasional.

RAT 4804L HPA-HP 5(0.20) Clinical Education I: PR: RTE 3000, RTE 3111C, RTE 3526, RTE 3684C, RTE 3804, RTE 3457C, RTE 3549, or C.I. Supervised clinical practice in patient care and orientation to radiation therapy simulation, and treatment planning and delivery procedures. Occasional.

RAT 4814L HPA-HP 6(0.24) Clinical Education II: PR: RAT 4804L. Supervised clinical practice in patient care, education, simulation, treatment planning and delivery and utilization of treatment units. Occasional.

RAT 4824L HPA-HP 6(0.24) Clinical Education III: PR: RAT 4814L. Continued supervised clinical practice in patient care, education, simulation, treatment planning and delivery and utilization of treatment units. Occasional.

RED 3012 ED-TLP 3(3.0) Basic Foundations of Reading: PR: Junior standing or C.I. Principles, procedures, and current practices for teaching reading. Specific techniques and materials for word identification, content reading and comprehension. Fall, Spring.
## UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Name</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>RED 3310</td>
<td>ED-CFCS</td>
<td>3(3,0)</td>
<td>PR: Program admission, C.I.</td>
<td>Investigates emergence of reading/writing processes during preschool, kindergarten, and early first grade years. Spring.</td>
</tr>
<tr>
<td>RED 4043</td>
<td>ED-TLP</td>
<td>3(3,0)</td>
<td>PR: Admission to the teacher education program and junior or senior class standing.</td>
<td>Content Reading in Kindergarten through Grade 12. Realization in the K-12 school curriculum: principles, strategies, assessment, and promoting practices. Fall, Spring.</td>
</tr>
<tr>
<td>RED 4311</td>
<td>ED-CFCS</td>
<td>3(3,0)</td>
<td>PR: RED 3310. Methods for development of reading and writing during primary (first - third) grades.</td>
<td>Development of Literacy. Fall.</td>
</tr>
<tr>
<td>RED 4519</td>
<td>ED-TLP</td>
<td>3(3,1)</td>
<td>PR: RED 3012 or C.I. and admission to Phase II.</td>
<td>Diagnostic and Corrective Reading Strategies. Fall, Odd Spring.</td>
</tr>
<tr>
<td>RED 5147</td>
<td>ED-TLP</td>
<td>3(3,0)</td>
<td>PR: EDG 4512. Principles, procedures, organization, and current practices in the elementary reading program. Materials and methods of instruction.</td>
<td>Developmental Reading. Fall, Spring.</td>
</tr>
<tr>
<td>RED 5514</td>
<td>ED-TLP</td>
<td>3(3,1)</td>
<td>PR: RED 5147 or equivalent. Classroom diagnosis and corrective teaching in reading.</td>
<td>Classroom Diagnosis and Development of Reading Proficiencies. Fall.</td>
</tr>
<tr>
<td>RED 3043</td>
<td>BA-FIN</td>
<td>3(3,0)</td>
<td>PR: Junior standing.</td>
<td>Fundamentals of Real Estate. Fall, Spring.</td>
</tr>
<tr>
<td>RED 3343</td>
<td>BA-FIN</td>
<td>3(3,0)</td>
<td>PR: Junior standing. Analysis of real estate law with emphasis on Florida statutes and case law.</td>
<td>Real Estate Law. Fall, Spring.</td>
</tr>
<tr>
<td>RED 4103</td>
<td>BA-FIN</td>
<td>3(3,0)</td>
<td>PR: FIN 3403. Focus on the fundamentals of real estate valuation utilizing tools of financial and economic analysis.</td>
<td>Real Estate Appraisal and Valuation. Fall.</td>
</tr>
<tr>
<td>RED 4203</td>
<td>BA-FIN</td>
<td>3(3,0)</td>
<td>PR: FIN 3403; open to majors or minors who require this course.</td>
<td>Commercial Real Estate Finance. Fall.</td>
</tr>
<tr>
<td>REE 4732</td>
<td>BA-FIN</td>
<td>3(3,0)</td>
<td>PR: FIN 3403. The real estate development process, from the inception of a project through lease-up, long-term financing, and final sale to the investment community.</td>
<td>Real Estate Development. Fall.</td>
</tr>
<tr>
<td>REL 2300</td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td></td>
<td>World Religions: Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam. Fall, Spring.</td>
</tr>
<tr>
<td>REL 3111</td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td></td>
<td>Religion and Philosophy Through Film: PR: ENC 1102 and either PHI 2100 or REL 2300 or FIL 1001. Religious and philosophical themes encountered in contemporary film. Fall, Spring.</td>
</tr>
<tr>
<td>REL 3115</td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td></td>
<td>Religion, Spirituality, and Popular Music: PR: HUM 2200 or REL 2300. Contemporary spiritual sensibilities encountered at the intersection of religion, philosophy, and popular music. Odd Fall.</td>
</tr>
<tr>
<td>REL 3340</td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td>PR: HUM 2230 or REL 2300 or C.I.</td>
<td>Buddhist Thought: PR: HUM 2230 or REL 2300 or C.I. Teachings of Buddhism and their contemporary applications. Odd Fall, Spring.</td>
</tr>
<tr>
<td>REL 3432</td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td>PR: HUM 3431, HUM 3405, HUM 3552, HUM 3553, HUM 4203, HUM 4554, PHII 3100, or PHII 3200.</td>
<td>Roots of Western Mysticism: PR: HUM 3431, HUM 3405, HUM 3552, HUM 3553, HUM 4203, HUM 4554, PHII 3100, or PHII 3200. Ancient, medieval, and modern European mysticism, and its influence on religious, philosophical, artistic, and scientific thought in the West. Even Fall, Odd Spring.</td>
</tr>
<tr>
<td>REL 4110</td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td>PR: HUM 2210, HUM 2230, ARH 2050, ARH 2051, or REL 2200. Art, music, dance, and ritual practices in religious traditions, with an emphasis on contemporary society.</td>
<td>Religion and the Arts: PR: At least one of the following: HUM 2210, HUM 2230, ARH 2050, ARH 2051, or REL 2200. Art, music, dance, and ritual practices in religious traditions, with an emphasis on contemporary society. Occasional.</td>
</tr>
<tr>
<td>REL 4901</td>
<td>CAH-PHIL</td>
<td>1(1,0)</td>
<td>PR: Final semester as Humanities/Religious Studies track major. Presentation of a representative sampling of a student's best undergraduate work, with appropriate revision, including a cover narrative indicating development of knowledge and skills in the subject area. Graded S/U. Occasional.</td>
<td>Portfolio: PR: Final semester as Humanities/Religious Studies track major. Capstone course on research, developing effective oral and written communication skills. Occasional.</td>
</tr>
<tr>
<td>REL 4910</td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td>PR: Senior standing and Religious Studies track major.</td>
<td>Senior Research Seminar: PR: Senior standing and Religious Studies track major.</td>
</tr>
<tr>
<td>RET 3026C</td>
<td>HPA-HP</td>
<td>4(3,3)</td>
<td>PR: Admission to the professional upper-division Respiratory Therapy Program.</td>
<td>Introduction to Respiratory Care: PR: Admission to professional upper-division Respiratory Therapy Program. Fundamental respiratory principles and practices will be studied. Introduction to the profession and basic methods are covered. Lecture and lab. M&amp;S fee: $45.00</td>
</tr>
<tr>
<td>RET 3174</td>
<td>HPA-HP</td>
<td>3(3,0)</td>
<td>PR: RET 3026C.</td>
<td>Pediatric Respiratory Care: PR: RET 3026C. The study of childhood respiratory diseases, congenital problems, infections, metabolic disorders, and AIDS. Fall. Spring.</td>
</tr>
<tr>
<td>RET 3264C</td>
<td>HPA-HP</td>
<td>3(2,3)</td>
<td>PR: Permission of Honors.</td>
<td>Mechanical Ventilation: PR: RET 3026C. Function and use of mechanical ventilators, patient evaluation methods. All forms of ventilatory support will be studied. Lecture and laboratory. Occasional.</td>
</tr>
<tr>
<td>RET 3483C</td>
<td>HPA-HP</td>
<td>3(2,1)</td>
<td>PR: Permission of Honors.</td>
<td>Respiratory Clinical Assessment: PR: RET 3026C or C.I.</td>
</tr>
<tr>
<td>RET 4284</td>
<td>HPA-HP</td>
<td>3(3,0)</td>
<td>PR: Permission of Honors.</td>
<td>Cardiopulmonary Diagnostics I: PR: RET 4244. Non-invasive cardiac diagnostics, including echocardiography, nuclear cardiology, and stress testing.</td>
</tr>
<tr>
<td>RET 4285</td>
<td>HPA-HP</td>
<td>3(3,0)</td>
<td>PR: Permission of Honors.</td>
<td>Cardiopulmonary Diagnostics II: PR: RET 4244 and RET 4284. Invasive cardiac diagnostic and therapeutic measures, including cardiac catheterization, PTCA, streptokinase use, and heart surgery.</td>
</tr>
</tbody>
</table>
UCF Courses and Descriptions


RET 4443 HPA-HP 4(3,3) Advanced Cardiac Ultrasound: PR: RET 4282 or C.I. Study of advanced applications of ultrasound in the diagnosis of cardiac abnormalities. Two-dimensional echo, conventional doppler, and color doppler covered. Occasional.

RET 4503 HPA-HP 3(3,0) Chest Medicine: PR: RET 3026C. Disease states treated medically in conjunction with one or more modalities of respiratory therapy. Spring.

RET 4536 HPA-HP 3(3,0) Cardiopulmonary Rehabilitation: PR: RET 3026C & RET 3484C or C.I. Principles underlying the development, implementation, and management of a comprehensive cardiopulmonary rehabilitation program. Spring.

RET 4715 HPA-HP 3(3,0) Neonatal Medicine: PR: RET 3714C or C.I. Fetal development, prenatal physiology, gas transport in the fetus and newborn. Congenital abnormalities, infections, diseases of the newborn. Resuscitation of the neonate. Fall.


RET 4934 HPA-HP 2(2,0) Selected Topics in Respiratory Therapy: PR: C.I. Current topics of adult critical care, as they apply to the advanced study of respiratory therapy. Spring.

RET 5910 HPA-HP 3(3,0) Research Methods in Cardiopulmonary Physiology: Introduction to methods used in scientific and medical research in cardiopulmonary physiology. Literature review, experimentation, and data analysis. Occasional.

RMI 3011 BA-FIN 3(3,0) Principles of Risk and Insurance: PR: FIN 3403. Emphasis on risk insurance as a risk-handling device, with attention given to risk assumption, risk avoidance, and loss prevention. Spring.

RTE 3000 HPA-HP 3(3,0) Introduction to Radiologic Sciences: PR: Admission to Radiologic Sciences program. Orientation to career field, radiation protection, principles and procedures of medical imaging and radiation therapy. Fall.

RTE 3111C HPA-HP 2(1.5,1.5) Introduction to Patient Care: PR: Acceptance to the program. Provides the student with fundamentals of patient care methods related to radiography. Fall. M&S fee: $10.00

RTE 3116 HPA-HP 3(3,0) Advanced Patient Care: PR: RTE 3111C or C.I. Study of advanced patient care concepts and techniques associated with computed tomography, magnetic resonance imaging, mammography, pediatrics and interventional procedures. Spring.

RTE 3308 HPA-HP 3(3,0) Medical Physics: PR: RTE 3664C or C.I. Study of radiation production, characteristics, detection and measurement, and protection, including barrier thickness calculation and shielding. Occasional.

RTE 3418C HPA-HP 3(2,5,1,5) Principles of Radiographic Exposure I: An introduction to the technical variables influencing radiographic and fluoroscopic image quality, including equipment considerations, prime exposure factors, image receptors, and accessory exposure devices. Fall. M&S fee: $28.00

RTE 3457C HPA-HP 3(2,5,1,5) Principles of Radiographic Exposure II: PR: RTE 3418C or C.I. Study of technical and photographic processing variables influencing conventional, radiographic and digital image quality. Spring. M&S fee: $28.00

RTE 3503C HPA-HP 3(2,3) Radiographic Procedures I: PR: Admission to the program. Provides fundamental knowledge of radiographic positioning, equipment manipulation, and quality evaluation of radiographic studies of the chest, abdomen, routine contrast studies, and the upper extremity. Fall. M&S fee: $45.00

RTE 3513C HPA-HP 3(2,3) Radiographic Procedures II: PR: RTE 3503C or C.I. Continuation of radiographic positioning, equipment manipulation, and quality evaluation of radiographic studies of the shoulder, bony thorax, lower extremity, vertebral column, cranium, and facial bones. Spring. M&S fee: $45.00

RTE 3684C HPA-HP 2(2,0) Physics of Image Production: PR: College Physics II. Physics of diagnostic radiology, including radiation production, physical principles of generator operation, and characteristics of electromagnetic radiation. Fall.

RTE 3804 HPA-HP 4(0,16) Clinical Education I: PR: RTE 3111C or C.I. Supervised clinical practice in radiographic procedures, radiation protection, patient care, equipment, Spring.

RTE 4202 HPA-HP 3(3,0) Methods in Radiology Management: Concepts of radiology, department management, including principles, personnel management, evaluation and improvement techniques, budgeting, financial considerations and legal aspects, and JCAH quality assurance specifications. Occasional.

RTE 4206 HPA-HP 3(3,0) Leadership in Radiological Sciences: PR: Senior level status in Radiologic Sciences Program. Provides the student with the leadership role in a radiology department, with an understanding of the departmental atmosphere. Spring.

RTE 4209 HPA-HP 2(0,8) Radiological Administrative Practice: A directed practice in the management of a radiology department, with application of theory and methodology. Occasional.

RTE 4385 HPA-HP 1(1,0) Radiobiology: PR: RTE 3308. A study of the effects of ionizing radiation on biologic systems. The responses at the cellular and total organism level are investigated. Fall.

RTE 4473 HPA-HP 3(3,0) Quality Improvement: PR: Registered technologist or Senior standing. The study of quality improvement and quality control from the perspective of radiology services. Spring.

RTE 4563 HPA-HP 2(2,0) Special Radiographic Procedures: PR: RTE 3513C or C.I. Principles of nonvascular invasive procedures, including myelography, arthrography, hysterosalpingography, and bronchography. Occasional.

RTE 4573 HPA-HP 3(3,0) Advanced Imaging Modalities: PR: RTE 3563 or C.I. A study of the physical principles and applications of computed tomography, digital imaging, interventional radiology, mammography, ultrasound, magnetic resonance imaging, and nuclear medicine. Fall.

RTE 4574 HPA-HP 1(1,0) Computed Tomography Protocols: PR: Senior level status in Radiologic Sciences program. Examines the application of imaging techniques accomplished by multidetector row computed tomography acquisition. Fall.

RTE 4579 HPA-HP 1(1,0) Magnetic Resonance Imaging Protocols: PR: Senior Level status in Radiologic Sciences Program. Provides overview of imaging protocols used for specific MRI procedures. Content includes patient screening, safety procedures, patient positioning, coil and accessory device selection and use. Fall.

RTE 4762 HPA-HP 3(3,0) Anatomy for the Medical Image: A study of the normal anatomical structures and interrelationships of structures as demonstrated in a radiographic and cross-sectional imaging reference. Fall.


RTE 4814L HPA-HP 5(0,20) Clinical Education II: PR: RTE 3804. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the chest, abdomen, extremities and shoulder girdle. Occasional.

RTE 4824L HPA-HP 6(0,24) Clinical Education III: PR: RTE 4814L. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the pelvis, thoracic cavity, vertebral column and portable and surgical radiography. Fall.

RTE 4834 HPA-HP 4(0,16) Clinical Education IV: PR: RTE 4824L. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the cranium, facial bones, and special procedures. Spring.

RTE 4844 HPA-HP 4(0,16) Clinical Education V: PR: RTE 4834. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on surgical and special procedure examinations. Occasional.

RTE 4854 HPA-HP 2(0,8) Advanced Clinical Practicum: PR: RTE 4824L. Supervised clinical experience and/or practice in computed tomography, interventional, vascular, and magnetic resonance imaging. Fall. Spring.

RTE 4903 HPA-HP 2(0,8) Directed Study in Radiologic Education: PR: EVT 3371 or EDG 4523 or C.I. Directed activity in classroom instruction in radiologic technology. Occasional.

RTV 2102 COS-R/TV 3(3,0) Writing for the Electronic Media: PR: ENC 1102, RTV Major. Practical experience in writing for various electronic media including radio, television, corporate, and digital media. Scripting requirements, writing styles and creative applications. Odd Fall, Even Spring.
RTV 3000 COS-R/TV 3(3,0)
Development and Structure of Electronic Media and New Technology: PR: SPC 1600 or C.I. Nature of the media, the mechanics of operation of analog and digital systems, history, economics, programming, and internal and external controls. Fall, Spring.

RTV 3200 COS-R/TV 3(3,0)
Production Fundamentals and Aesthetics of Electronic Media: PR: or CR: RTV 3000 or C.I. Technical and creative concepts of analog and digital electronic media production for radio, television, and multimedia delivery systems. Fall, Odd Spring.

RTV 3210C COS-R/TV 4(4,3)
Audio Production I: PR: RTV 3200 and RTV Major - Production Specialization. Audio production theory and recording techniques utilizing various microphone types, and digital non-linear audio computer-based editing equipment. Fall, Spring. M&S fee: $30.00.

RTV 3223C COS-R/TV 3(3,3)

RTV 3228C COS-R/TV 4(4,3)

RTV 3231C COS-R/TV 4(1,3)
Broadcast Announcing and Performance: PR: RTV Majors only, RTV 3210C or RTV 3260C or RTV 4270C or C.I. Communication problems on camera and microphone. Development of performance skills in announcing, interviewing, narrating, and reporting. Odd Fall, Spring. M&S fee: $15.00.

RTV 3260C COS-R/TV 4(4,3)
Single Camera Video Production and Editing: PR: RTV 3200 and RTV Major - Production Specialization or Broadcast Journalism Specialization. Technical and aesthetic requirements of analog and digital single-camera video production and editing, including techniques for electronic news gathering (ENG) and electronic field production (EFP). Fall, Spring. M&S fee: $90.00.

RTV 3263C COS-R/TV 3(3,3)
Advanced Video Post-Production: PR: RTV 3260C and RTV Major - Production Specialization. Advanced post-production techniques for analog and digital video, including A/B roll time code editing, digital video effects, electronic graphics, and non-linear video editing systems. Fall, Spring. M&S fee: $15.00.

RTV 3283C COS-R/TV 3(3,1)
Production of Interactive Multimedia: PR: COS 1000C; major status in RTV, AdPR, Journalism, Organizational or Interpersonal Communication. Practice and production of electronic interactive multimedia for the broadcast industry. Odd Fall. M&S fee: $15.00.

RTV 3301 COS-R/TV 3(3,0)

RTV 3304 COS-R/TV 3(3,0)
Electronic Journalism II: PR: RTV 3301, RTV 3260C, and RTV Major - Broadcast Journalism Specialization. Newswriting and newsgathering strategies learned in RTV 3301 are integrated into a newsgathering context for actual production of analog and digital radio and television news packages. Fall, Spring.

RTV 3501 COS-R/TV 1(1,2)

RTV 3942L COS-R/TV 1,3(0,3-9)
Practicum: PR: C.I., RTV Major, and either RTV 3210C, RTV 3228C, or RTV 3260C. Student will serve in some position of responsibility for UCF Weekly News or other RTV program. May be repeated for credit. Graded S/U. Occasional.

RTV 4206C COS-R/TV 4(4,3)
Television Directing: PR: RTV 3228C and RTV Major - Production Specialization. Preparation and direction of programs, using both digital and analog resources with emphasis on dramatic value and composition. Fall, Even Spring. M&S fee: $30.00.

RTV 4211C COS-R/TV 3(3,3)

RTV 4270C COS-R/TV 3(3,3)
Radio Production and Programming: PR: RTV 3200 and RTV Major - Production or Broadcast Generalist Specialization. Study and production of current radio formats, the integration of digital resources, and their effects on today’s radio listener. Fall.

RTV 4280C COS-R/TV 3(3,3)

RTV 4281C COS-R/TV 3(3,3)

RTV 4320C COS-R/TV 3(1,3)
Television News: PR: RTV 3304 and RTV Major - Broadcast Journalism Specialization. Production of weekly campus newscast. Daily newsgathering and production decisions are conducted by students under the advisement of the instructor functioning as news director. Fall, Spring. M&S fee: $15.00.

RTV 4403 COS-R/TV 3(3,0)
Electronic Media, Technology, and Society: PR: or CR: RTV 3000. Theories of mass communication, mass communication effects, and emerging communication technologies, including digital media. Fall, Spring.

RTV 4503 COS-R/TV 3(3,0)
Sports Programming on Broadcast and Cable: PR: RTV 3000 or C.I. An examination of the factors that determine how sporting events are constructed for programming on broadcast stations and cable systems. Occasional.

RTV 4505 COS-R/TV 3(3,1)
Program Issues for TV & Motion Pictures: PR: RTV 3000 or FIL 2400. An examination of program development theories, strategies and issues in the television and motion picture industries. Occasional.

RTV 4700 COS-R/TV 3(3,0)
Regulation of Broadcasting: PR: RTV Majors only, RTV 3000. Federal, state, local and self regulatory agencies and practices which govern electronic media. Fall.

RTV 4800 COS-R/TV 3(3,0)
Broadcast Management: PR: RTV Majors only, RTV 4700. Examination of broadcast management problems in station operations at local, regional, and national levels. Odd Spring.

RUS 1120 CAH-LANG 4(4,1)
Elementary Russian Language and Civilization I: Introduces the student to Russian culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Occasional.

RUS 1121 CAH-LANG 4(4,1)
Elementary Russian Language and Civilization II: PR: RUS 1120 or equivalent. Continuation of RUS 1120. Occasional.

RUS 2200 CAH-LANG 3(3,1)

RUS 2201 CAH-LANG 3(3,0)
Intermediate Russian Language and Civilization II: PR: RUS 2200 or equivalent. Continuation of RUS 2200, with emphasis on Russian civilization. Occasional.

RUS 2210 CAH-LANG 3(3,0)
Intensive Russian Conversation: PR: One year of Russian or equivalent. Practical use of the language, leading toward fluency and correctness in speaking. Occasional.

RUS 3240 CAH-LANG 3(3,0)
Russian Conversation: PR: RUS 2201 or equivalent. Development of skills in conversation and comprehension through practice. Occasional.

RUS 3760 CAH-LANG 3(3,0)

SCE 3310 ED-TLP 3(3,0)
Teaching Science in Elementary School: PR: Junior standing or C.I. Selected concepts; organizing for instruction; evaluation; procedures. Fall, Spring. M&S fee: $5.25.

SCE 4023 ED-CFCS 3(3,0)
Teaching Science and Technology to Young Children: Provides the knowledge and skills needed to plan and implement a discovery science/design technology program for young children in an integrated, interactive curriculum. Fall.

SCE 4360 ED-TLP 4(3,2)
Science Instructional Analysis: PR: EDG 4333 or C.I. Course objectives for a school curriculum and methods and materials for the middle grades and high school. Fall, Spring. M&S fee: $8.00.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>SCE 5325</td>
<td>ED-TLP 3(3,0) 3(3,0) 3(3,0) Teaching Middle School Science: PR: EDG 6236 or C.I.</td>
<td>This course will provide experiences that promote effective science teaching in grades 5-9 including interdisciplinary teaming, technology use, ESOL, and inquiry in science. Occasional.</td>
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<tr>
<td>SCE 5632</td>
<td>ED-TLP 3(3,0) Issues and Methods in Secondary School Science: PR: EDG 6236 or C.I.</td>
<td>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. Fall, Spring.</td>
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<tr>
<td>SCE 5825</td>
<td>ED-TLP 3(3,0) Space Science for Educators: PR: Senior standing or C.I.</td>
<td>Introduction to space science, manned space flight, and space education curriculum. Occasional.</td>
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<tr>
<td>SLS 1501</td>
<td>ED-ES 3(2,1) Strategies for Success in College: This course is designed to address the development of life-skills necessary for the contemporary student to appropriately adjust to college requirements that lead to self-mastery and the total concept of lifetime wellness. Fall, Spring.</td>
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<tr>
<td>SLS 2261C</td>
<td>ED-ES 2(2,1) Student Organization Leadership: Application of leadership and organization development paradigms, theories, and approaches for emerging and established student leaders. Occasional.</td>
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<tr>
<td>SOP 2772</td>
<td>COS-PsyCh 3(3,0) Sexual Behavior: PR: PSY 2012. Physiological, social, and clinical aspects of human sexuality. Fall.</td>
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<tr>
<td>SOP 3004</td>
<td>COS-PsyCh 3(3,0) Social Psychology: PR: PSY 2012. Effects of social situations and social variables on the behavior of individuals. Fall, Spring.</td>
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<tr>
<td>SOP 3723</td>
<td>COS-PsyCh 3(3,0) Cross Cultural Psychology: PR: PSY 2012. Exploration of theories, issues, and research concerned with the psychological understanding of under-represented minority groups. Odd Spring.</td>
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<tr>
<td>SOP 3724</td>
<td>COS-PsyCh 3(3,0) The Psychology of Racial Prejudice: PR: PSY 2012. Examination of literature relating to prejudice toward ethnic groups; effects of racism on individuals, development and maintenance of prejudice, and possible ways to reduce prejudice. Even Spring.</td>
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<tr>
<td>SOP 3742</td>
<td>COS-PsyCh 3(3,0) Psychology of Women: PR: PSY 2012. Examination of the psychological impact of changing sex roles on women in modern society. Topics include child rearing, working women, and sex differences in personality and cognition. Fall, Spring.</td>
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<tr>
<td>SOP 3751</td>
<td>COS-PsyCh 3(3,0) Legal Aspects of Psychology: PR: PSY 2012 or SYG 2000; PPE 3003 or C.I. Ethical and legal dilemmas and issues in the practice of psychology. Fall.</td>
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<tr>
<td>SOP 3784</td>
<td>COS-PsyCh 3(3,0) Psychology of Diversity: PR: PSY 2012. A review of the contributions of psychology to the understanding of human diversity related to ethnic background, gender, sexuality, and belief systems. Occasional.</td>
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<tr>
<td>SOP 5059</td>
<td>COS-PsyCh 3(3,0) Advanced Social Psychology: PR: SOP 3004, graduate status or senior standing, or C.I. The major findings and theories in social psychology including an in-depth review of relevant research. Occasional.</td>
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<tr>
<td>SOW 2020</td>
<td>HPA-SOWK 3(3,0) Introduction to Social Services: Introduction to social services, with emphasis on the role of the professional social worker and current career opportunities. Fall.</td>
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<td>SOW 3104</td>
<td>HPA-SOWK 3(3,0) Assessing I: Human Development: Skill development in assessing &quot;person-in-environment&quot; throughout life cycle. Study interaction of bio-psycho-social, cultural, and systemic influences on human functioning. Open to non-majors and pending social work majors. Fall.</td>
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<tr>
<td>SOW 3203</td>
<td>HPA-SOWK 3(3,0) Social Work &amp; Community Resources: PR: Jr. Standing or C.I, open to non-majors. Generalist social work practice, including the structure of American social welfare, values and ethics of social work and community resources. Fall.</td>
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<tr>
<td>SOW 3352</td>
<td>HPA-SOWK 3(1,2) Practice II: PR: SOW 3300. Interpersonal Skills in Social Work: PR or CR: SOW 3300. Study and practice of intervention, group leadership, written communication, and oral presentations, in consensual as well as conflictual contexts of social work. Spring.</td>
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<tr>
<td>SOW 3401</td>
<td>HPA-SOWK 3(3,0) Social Work Research: PR: STA 2014C or STA 2023. Study of quantitative and qualitative methods of building knowledge for social work and the ethical use of research in professional practice. Spring.</td>
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<tr>
<td>SOW 3620</td>
<td>HPA-SOWK 3(2,1) Social Work with Minorities: PR: SOW 3303, and SOW 3104; PR or CR: SOW 3300. Study of oppressed groups and relevant social work interventions; skill development in work with, and in behalf of, people of minority groups. Spring.</td>
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<tr>
<td>SOW 4232</td>
<td>HPA-SOWK 3(3,0) Social Welfare Policies and Issues: PR: SOW 3303 or equivalent. Development of skills needed to critically analyze social welfare goals, structures, and practices. Proposes improvements in societal resource systems. Fall.</td>
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<tr>
<td>SOW 4341</td>
<td>HPA-SOWK 3(1,2) Micro-Level Roles and Interventions in Social Work: PR: SOW 3300, SOW 3352. Study and simulated practice of roles and tasks in systemic problem solving with individuals, families and supportive and remedial groups. Fall.</td>
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<tr>
<td>SOW 4343</td>
<td>HPA-SOWK 3(1,2) Macro-Level Roles and Interventions in Social Work: PR: SOW 3300, SOW 3352. Study and simulated practice of roles and tasks in systemic problem solving to obtain and improve social welfare resources within organizations and communities. Fall.</td>
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<tr>
<td>SOW 4431</td>
<td>HPA-SOWK 3(2,1) Evaluating Social Work Practice and Service Programs: PR: SOW 3401, SOW 3300. The study of systematic data collection and of measurement of change in individuals, families, groups, programs, and communities. Occasional.</td>
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<tr>
<td>SOW 4510</td>
<td>HPA-SOWK 9(0,28) Field Education: PR: Completion of required courses in major: GPA 2.5 in major; CR: SOW 4522. Supervised learning experiences in agencies that relate social work practice to theory, requiring 420 clock hours in the field. Graded S/U. Spring.</td>
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<tr>
<td>SOW 4522</td>
<td>HPA-SOWK 3(2,1) Field Education Seminar: PR: Completion of required courses in major: CR: SOW 4510. Weekly seminar to examine the field experience and to relate theory with practice situations. Spring.</td>
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<tr>
<td>SOW 4602</td>
<td>HPA-SOWK 3(3,0) Social Work in Health Settings: PR: SOW 3300 and SOW 3104 or C.I. Study of social work roles, interventions, and issues related to helping patients in health settings. Fall.</td>
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<tr>
<td>SOW 4645</td>
<td>HPA-SOWK 3(3,0) Social Services for the Elderly: PR: SOW 3300, SOW 3104, or Gerontology Certificate Major or C.I. Development of interventive skills for obtaining, providing, and improving social services in behalf of elderly persons and their families. Fall.</td>
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<tr>
<td>SOW 4650</td>
<td>HPA-SOWK 3(3,0) Child Abuse: Treatment and Prevention: PR: SOW 3300 and Admission to BSW program or C.I. The social worker’s role and interventions with victims of child abuse and their family members. Spring.</td>
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<tr>
<td>SOW 4654</td>
<td>HPA-SOWK 3(3,0) Children’s Services: PR: or CR: SOW 3104. Study of societal responses to children’s needs. Development of skills for preventing family breakdown, placing children in alternative care, and reuniting children with their families. Fall, Spring.</td>
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<td>SOW 4673</td>
<td>HPA-SOWK 3(3,0) Social Work Practice: The Gay and Lesbian Experience: PR: SOW 3104 or C.I. Sexual orientation and cultural diversity, policies and resources affecting gay &amp; lesbian people, community based therapeutic and preventive interventions with gay &amp; lesbian clients. Even Spring.</td>
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<td>SOW 4705</td>
<td>HPA-SOWK 3(3,0) Prevention and Treatment of Adolescent Substance Abuse: PR: Junior Standing. An in-depth review of prevention, intervention, and treatment, recovery and relapse issues and public policies regarding adolescents with substance abuse problems. Even Fall, Spring.</td>
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<tr>
<td>SOW 4706</td>
<td>HPA-SOWK 3(3,0) Intervention with Substance Abusers: PR: Junior Standing. Strategies for working with persons who abuse alcohol, other drugs and substances. Fall, Even Spring.</td>
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</tbody>
</table>
SOW 4730  HPA-SOWK  3(3,0)
Documentary in Social Work Practice: PR: SOW 3300 and SOW 3352. For Social Work majors only. Development of documentation skills for the delivery of social work services in various agency settings. Fall.

SOW 5105  HPA-SOWK  3(3,0)
Human Behavior and Social Environment I: Individual: PR: Admission to MSW program. Study of human development and psychosocial functioning of individuals at various life stages with particular attention to implications of human diversity. Fall.

SOW 5106  HPA-SOWK  3(3,0)
Human Behavior and Social Environment II: Social Systems: Study of the patterns and dynamics of families, groups, organizations, and communities from a social work and a systems perspective. Spring.

SOW 5109  HPA-SOWK  3(3,0)
Violence Against Women: A Global Perspective: PR: Admission to MSW program. An introduction to the types of violence that impact women from a global perspective. Community, political, and economic issues that support violence against women will be discussed by country, ethnic group(s) within countries, and religious principles. Odd Spring.

SOW 5132  HPA-SOWK  3(3,0)
Diverse Client Populations: Study of human diversity, focusing on the needs, resources, problems, and service issues of several identified minority client populations. Spring.

SOW 5235  HPA-SOWK  3(3,0)
Social Welfare Policies and Services: Study of selected social work theories, strategies, and techniques for helping people and improving system responsiveness to human needs. Spring.

SOW 5305  HPA-SOWK  3(3,0)
Social Work Practice I: Generalist Practice: Study of social work functions, knowledge, values, roles and skills; the use of a generalist modelconst of practice. Fall.

SOW 5306  HPA-SOWK  3(3,0)
Social Work Practice II: Intervention Approaches: Study of selected social work theories, strategies, and techniques for helping people and improving system responsiveness to human needs. Spring.

SOW 5355  HPA-SOWK  3(3,0)
Studies in Social Work Practice: PR: C.I. Analysis of one or more urban practice issues and approaches. May be repeated for credit. Occasional.

SOW 5387  HPA-SOWK  3(3,0)
nonprofit Resource Development: PR: Admission to certificature program or C.I. Resource Development in nonprofit organizations, including board development and leadership, volunteer program development, staff development, grant funding, fundraising, marketing, and government contract development and management. Occasional.

SOW 5404  HPA-SOWK  3(3,0)
Social Work Research: Study of group research designs in social work; quantitative analyses; and related ethical issues. Fall.

SOW 5432  HPA-SOWK  3(3,0)
Evaluating Social Work: Study of single case designs in social work; recording methods; behavioral and standardized measures; applications to individuals, families, groups, programs, communities. Occasional.

SOW 5532  HPA-SOWK  2(2,0)

SOW 5533  HPA-SOWK  2(2,0)
Generalist Field Education II: PR: MSW. Continuation of SOW 5532. Generalist Field Education I in the same field agency for 224 clock hours. Graded S/U. Odd Fall, Spring.

SOW 5534  HPA-SOWK  1(1,0)
Generalist Field Education Integrative Seminar I: PR: Admission to MSW program. CR: SOW 5352. Seminar designed to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U. Fall.

SOW 5546  HPA-SOWK  1(1,0)
Generalist Field Education Integrative Seminar II: PR: Admission to MSW program. CR: Generalist Field Education II. Continuation of generalist field education integrative seminar I to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U. Spring.

SOW 5604  HPA-SOWK  3(3,0)
Medications in Social Work Practice: PR: graduate standing, post-baccalaureate status, consent in SW program or C.I. The study of the effects that psychotropic medications can have within the counseling/helping relationship. Spring.

SOW 5614  HPA-SOWK  3(3,0)
Social Work Practice in Mexican Culture: PR: C.I. The practice of social work in Mexican culture through cultural immersion, seminars, field visits and language instruction. Occasional.

SOW 5625  HPA-SOWK  3(3,0)

SOW 5635  HPA-SOWK  3(3,0)
Social Work Practice in Schools: PR: Social Work Graduate standing or C.I. Study of knowledge, skills and abilities necessary for competent practice with students, their teachers, families, schools and communities. Even Spring.

SOW 5642  HPA-SOWK  3(3,0)
Aging in Social Situations: PR: Admission to MSW program or Gerontology Certificate program or C.I. Knowledge about elderly in social situations or environmental context. Occasional.

SOW 5644  HPA-SOWK  3(3,0)
Interventions with Elderly and Their Families: PR: Admission to Gerontology graduate certification program or MSW program or C.I. Study of concepts, skills, models and theories for intervening with aged. Special attention is given to minority populations. Even Spring.

SOW 5652  HPA-SOWK  3(3,0)

SOW 5655  HPA-SOWK  3(3,0)
Child Abuse: Treatment and Prevention: The social worker's role and interventions with victims of child abuse and their family members. Spring.

SOW 5662  HPA-SOWK  3(3,0)
Strategies in Employee Assistance Programs: Techniques for establishing, providing, and evaluating services to people with problems which affect job performance. Occasional.

SOW 5670  HPA-SOWK  3(3,0)
Gay and Lesbian Experience in American Society: PR: seniors or graduate status. Sexual orientation in a cultural context: resources and policies affecting gay and lesbian people, and professional considerations in interventions with and for gay and lesbian clients. Occasional.

SOW 5712  HPA-SOWK  3(3,0)
Interventions with Substance Abusers: Strategies for working with persons who abuse drugs, alcohol, and other substances. Odd Fall, Spring.

SOW 5713  HPA-SOWK  3(3,0)

SOW 5735  HPA-SOWK  3(3,0)

SOW 5846  HPA-SOWK  3(3,0)
Spirituality in Professional Counseling: PR: graduate standing, post-baccalaureate status, seniors, or C.I. Examination of spirituality as it relates to professional counseling. Odd Spring.

SPA 2631  HPA-COMD  3(3,0)
Issues of Deafness: PR: C.I. The impact of deafness on individual, family and social problems in the deaf community and culture, including historical and changing attitudes toward persons and disabilities. Occasional.

SPA 3002  HPA-COMD  3(3,0)

SPA 3011  HPA-COMD  3(3,0)
Speech Science I: Production: Study of how speech is produced, how it is transformed into an acoustic signal, and how that acoustic signal is measured. Fall, Spring.

SPA 3011L  HPA-COMD  1(0,1)

SPA 3101  HPA-COMD  3(3,0)
Physiological Bases of Speech and Hearing: PR: SPA 3002. An introduction to the anatomical, physiological, and physical elements underlying the communication process. Fall, Spring.

SPA 3104  HPA-COMD  3(3,0)
SPA 3112 HPA-COMD 3(3,0) Basic Phonetics: CR: SPA 3112L. Physiological descriptions and visual notation of standard speech patterns and regional dialects. Fall, Spring.

SPA 3112L HPA-COMD 1(0,1) Basic Phonetics Lab: CR: SPA 3112. Practice in the transcription of normal and deviant speech samples. Graded S/U. Fall, Spring.

SPA 3123 HPA-COMD 3(3,0) Speech Science II: Perception: CR: SPA 3112, SPA 3111. How perception of human speech differs from that of other auditory signals. Fall, Spring.

SPA 3123L HPA-COMD 1(0,1) Speech Perception Lab: CR: SPA 3123. Laboratory techniques used in investigating human speech perception. Graded S/U. Fall, Spring.

SPA 3471 HPA-COMD 3(3,0) Communication Disorders in Literature and Media: PR: PSY 2012 or SYG 2000. Exploration of communication disorders in literature and media, emphasizing psychosocial, academic, vocational, and familial challenges as well as society’s perceptions of individuals with communication disorders. Fall, Spring.

SPA 3472 HPA-COMD 3(3,0) Guidance of Young Children with Communication Disorders: CR: SPA 3002. Social/emotional and behavioral difficulties of children with communication disorders; positive child guidance and behavioral management strategies for clinicians and parents. Fall, Spring.

SPA 3621 HPA-COMD 3(3,0) Introduction to Signed English and Culture of the Deaf: Vocabulary and grammar through introductory level. Conceptual basis of ASL discussed. Occasional.


SPA 4052L HPA-COMD 3(0,3) Undergraduate Clinical Practicum: CR: SPA 4450C, or SPA 4476, and Senior Status. Students must apply and be invited to enroll in practicum. Supervised clinical practicum for select undergraduate students in the management of language or articulation disorders. Fall, Spring. M&S fee: $45.00

SPA 4201 HPA-COMD 3(3,0) Articulation And Phonological Disorders: CR: SPA 3002, SPA 3112. The etiology, assessment, and management of articulation and phonological disorders, including those associated with structural variations and neuromotor disorders. Occasional. M&S fee: $15.00


SPA 4400 HPA-COMD 3(3,0) Language Disorders Across the Life Span: CR: LIN 3717. Eltology, assessment, and management of language disorders in children, adolescents, and adults, including those associated with autism, traumatic brain injury, learning disabilities, and dementia. Fall, Spring.

SPA 4440 HPA-COMD 3(3,0) Speech Disorders Across the Lifespan: CR: SPA 3002, SPA 3101, and SPA 3112. Causes and characteristics of speech and swallowing disorders in children and adults, including those affecting articulation, phonation, resonance, fluency, and feeding swallowing. Fall, Spring.

SPA 4476 HPA-COMD 3(3,0) Speech Disorders: CR: SPA 3002. Principles and procedures in the use of ASL. Fall, Spring.

SPA 4478 HPA-COMD 3(3,0) Multicultural Aspects: Communication Disorders & Differences: CR: LIN 3717. Cultural and linguistic diversity among individuals with communication disorders and differences. Special emphasis on African, Hispanic, Asian, and Native American. Fall, Spring.

SPA 4550C HPA-COMD 5(3,2) Clinical Methods in Communicative Disorders: CR: SPA 4201 and SPA 4400. The principles and techniques of case management with an emphasis on designing individualized treatment programs for individuals with communication disorders. Students will complete 25 observation hours. Fall, Spring.

SPA 4555 HPA-COMD 3(3,0) Counseling in Communicative Disorders: CR: SPA 4550C. Practical interviewing and counseling in the area of Communicative Disorders. Spring.

SPA 4559 HPA-COMD 3(3,0) Augmentative and Alternative Communication Systems: CR: LIN 3717. The total integrated network of techniques, aids, strategies, and skills individuals use to supplement or replace inadequate natural speaking ability. Occasional.


SPA 4615 HPA-COMD 4(4,0) American Sign Language IV: CR: SPA 4614C or consent of instructor. Advanced study in complex grammar, facial expression, metaphorical and idiomatic vocabulary, emphasis on non-voiced, conversational, spontaneous signed sentences, “reading” signed phrases and sentences. Occasional.

SPA 4617 HPA-COMD 3(3,0) Structure of American Sign Language: CR: SPA 4612 and SPA 4613 or C.I. Study of phonologic, syntactic, semantic, and discourse structure of ASL, including an emphasis on the biological basis of language and communication. Occasional.

SPA 4626 HPA-COMD 3(3,0) Fingerspelling: CR: SPA 4612 and SPA 4613 or C.I. The study and practice of fingerspelling techniques to improve receptive and expressive fingerspelling proficiency beyond basic skill levels. Occasional.

SPA 4628 HPA-COMD 3(3,0) Literature of Signed Languages: CR: SPA 2601. Overview of literature produced by Deaf communities across the world, with emphasis on the American Deaf Community. Genres include poetry, narrative, historical and cultural prose. Occasional.

SPA 4633 HPA-COMD 3(3,0) Educational Implications of Deafness: CR: SPA 2601. Impact of deafness on the educational process. The impact of deafness on the individual, their family, and the classroom will be discussed. Occasional.

SPA 4652 HPA-COMD 3(3,0) Ethics of Interpreting Sign Language: CR: SPA 4612, SPA 4613, SPA 4614C. A study of the role of the interpreter, including business practices, professional conduct and interpreting settings. Occasional.

SPA 4660C HPA-COMD 4(3,1) Interactive Interpreting I: CR: SPA 4612, SPA 4613 and SPA 4614C or C.I. Theories, guidelines, principles and practices of interpreting, including interpreter’s role, professional behavior and interpreting ethics, and environmental considerations of interpreting situations. Occasional.

SPA 4662C HPA-COMD 4(3,1) Interactive Interpreting II: CR: SPA 4660C or C.I. Advanced cognitive, linguistic and motor skill development in the use of ASL. Occasional.

SPA 4803 HPA-COMD 3(3,0) Research Methods in Communication Sciences and Disorders: CR: STA 2014C or STA 2023. Approaches, methods, and techniques of research in Communication Sciences and Disorders are considered through lecture, discussion, and group participation. Fall, Spring.

SPA 4948 HPA-COMD 3(0,3) Community Internship: CR: SPA 4550C and Senior Status. Supervised interaction and planned activities with individuals experiencing communication disorders in community settings, including Head Start, public schools, clinics, skilled nursing and assisted living facilities. Fall, Spring.


SPA 5473 HPA-COMD 3(3,0) Multicultural Aspects of Communication Disorders and Disorders: CR: Graduate standing. Introduction to cultural and linguistic diversity among individuals with communication disorders and disorders. Special emphasis on African, Hispanic, Asian, and Native-American cultures. Occasional.
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Department</th>
<th>Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPA 5477</td>
<td>HPA-COMD</td>
<td>Aging and Communication</td>
<td>PR: Senior status or CI. Study of the changes in communication with normal aging, focusing on assessment and management of older individuals with communication disorders. Occasional.</td>
</tr>
<tr>
<td>SPA 5559</td>
<td>HPA-COMD</td>
<td>Augmentative and Alternative Communication Systems</td>
<td>PR: Senior status or CI. The total integrated network of technologies, aids, strategies, and skills individuals use to supplement or replace inadequate natural speaking ability. Fall, Spring.</td>
</tr>
<tr>
<td>SPA 5561</td>
<td>HPA-COMD</td>
<td>Counseling in Communicative Disorders</td>
<td>PR: Senior Status or C.I. Interviewing and counseling for individuals with communication disorders and their families. Spring.</td>
</tr>
<tr>
<td>SPA 5570</td>
<td>HPA-COMD</td>
<td>Administration and Management of Communicative Disorders Programs</td>
<td>PR: SPA 6553, SPA 5527. Methods and techniques for organization and administration of speech-language and hearing disorders in public school, hospital, rehabilitation center, and private practice facilities. Occasional.</td>
</tr>
<tr>
<td>SPB 3003</td>
<td>BA-BUS</td>
<td>Introduction to Sport Business Management</td>
<td>PR: Admission to a business major. The sport industry and the principles and applications of sport business management in professional, collegiate, and Olympic sport. Occasional.</td>
</tr>
<tr>
<td>SPB 3503</td>
<td>BA-BUS</td>
<td>Ethics in Sport Business</td>
<td>PR: SPB 3003. The ethics and moral issues in sport and their business implications focusing on the responsibilities of decision makers in professional, collegiate, and Olympic sport. Occasional.</td>
</tr>
<tr>
<td>SPB 4104</td>
<td>BA-BUS</td>
<td>Intercollegiate Sport Industry</td>
<td>PR: SPB 3003. The structure, evolution and governance of intercollegiate sport management and a framework for sound business decision making. Occasional.</td>
</tr>
<tr>
<td>SPB 4204</td>
<td>BA-BUS</td>
<td>Professional Sport Industry</td>
<td>PR: SPB 3003. The structure, evolution and governance of professional sport management and a framework for sound business decision making. Occasional.</td>
</tr>
<tr>
<td>SPB 4704</td>
<td>BA-BUS</td>
<td>Sport Business Strategy</td>
<td>PR: SPB 3003. The skills and knowledge applicable to the process of building and sustaining excellent sport organizations. Occasional.</td>
</tr>
<tr>
<td>SPA 3301</td>
<td>COS-COMM</td>
<td>Interpersonal Communication</td>
<td>PR: SPB 3003. Nature of the communication process; variables affecting the process and the individuals involved. Analysis of communication models, interactor behavior, situational cues, verbal and non-verbal messages. Fall, Spring.</td>
</tr>
<tr>
<td>SPA 3425C</td>
<td>COS-COMM</td>
<td>Group Interaction and Decision-Making</td>
<td>PR: COM 3511. A study of small group processes. Attention is given to problem solving, leadership emergence, conformity behavior, and group member role responsibilities. Fall, Spring.</td>
</tr>
<tr>
<td>SPA 3513</td>
<td>COS-COMM</td>
<td>Argumentation and Debate</td>
<td>PR: SPC 1600. Study of the principles of argumentation. Emphasis on research and development of arguments. Fall, Spring.</td>
</tr>
<tr>
<td>SPC 3602</td>
<td>COS-COMM</td>
<td>Advanced Public Speaking</td>
<td>PR: SPC 1600 or C.I. Advanced training in selecting and organizing materials for various types of speeches. Practice in thinking and speaking before audiences. Occasional.</td>
</tr>
<tr>
<td>SPC 4331</td>
<td>COS-COMM</td>
<td>Nonverbal Communication</td>
<td>PR: COM 3311. Review of current research in this area as it relates to nonverbal communication, body language, and public speaking. Fall, Spring.</td>
</tr>
<tr>
<td>SPC 4540</td>
<td>COS-COMM</td>
<td>Attitudes and Communication</td>
<td>PR: COM 3311. A survey of the immediate and direct ways in which persuasive communication and social groups come to influence attitudes. Fall, Spring.</td>
</tr>
<tr>
<td>SPN 1120</td>
<td>CAH-LANG</td>
<td>Elementary Spanish Language and Civilization I</td>
<td>PR: Permission of Honors. Introduces the student to Spanish culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Fall, Spring.</td>
</tr>
<tr>
<td>SPN 1121</td>
<td>CAH-LANG</td>
<td>Elementary Spanish Language and Civilization II</td>
<td>PR: SPN 1120 or equivalent. Continuation of SPN 1120. Fall, Spring.</td>
</tr>
<tr>
<td>SPN 1130H</td>
<td>CAH-LANG</td>
<td>Honors Elementary Spanish Language and Civilization</td>
<td>PR: Permission of Honors. Introduces the student to Spanish culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Honors-level content. Occasional.</td>
</tr>
<tr>
<td>SPN 1131H</td>
<td>CAH-LANG</td>
<td>Honors Elementary Spanish Language and Civilization</td>
<td>PR: Permission of Honors and SPN 1130H or equivalent. Same as SPN 1121 with honors-level content. Occasional.</td>
</tr>
<tr>
<td>SPN 1170</td>
<td>CAH-LANG</td>
<td>Elementary Spanish Study Abroad</td>
<td>PR: Permission of Honors. Introduces the student to Spanish culture and civilization taught in the native environment. Occasional.</td>
</tr>
<tr>
<td>SPN 2200</td>
<td>CAH-LANG</td>
<td>Intermediate Spanish Language and Civilization I</td>
<td>PR: SPN 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level. Fall, Spring.</td>
</tr>
<tr>
<td>SPN 2200H</td>
<td>CAH-LANG</td>
<td>Intermediate Spanish Language and Civilization II</td>
<td>PR: SPN 2200 or equivalent. Continuation of SPN 2200, with emphasis on Spanish civilization. Occasional.</td>
</tr>
<tr>
<td>SPN 2240</td>
<td>CAH-LANG</td>
<td>Intensive Spanish Conversation</td>
<td>PR: One year of Spanish or equivalent. Practical use of the language, leading toward fluency and correctness in speaking at the intermediate level. Occasional.</td>
</tr>
<tr>
<td>SPN 2241</td>
<td>CAH-LANG</td>
<td>Spanish Conversation</td>
<td>PR: SPN 2201 or equivalent. Development of skills in conversation and comprehension through practice. Occasional.</td>
</tr>
<tr>
<td>SPN 2340</td>
<td>CAH-LANG</td>
<td>Spanish for Native Speakers</td>
<td>PR: Must be a native speaker. Intensive Spanish for native speakers who have had little or no formal training in the language. Occasional.</td>
</tr>
<tr>
<td>SPN 2511</td>
<td>CAH-LANG</td>
<td>Modern Spanish Civilization Abroad</td>
<td>PR: SPN 1120 &amp; 1121. This intensive course will focus on modern Spanish culture using examples from present day society. Cultural visits and readings are essential components of this course. Occasional.</td>
</tr>
<tr>
<td>SPN 3140</td>
<td>CAH-LANG</td>
<td>Business Spanish I</td>
<td>PR: SPN 2200 and SPN 2201 or equivalent. Basic business terminology, business culture, and business topics related to the Hispanic World. Odd Fall.</td>
</tr>
<tr>
<td>SPN 3141</td>
<td>CAH-LANG</td>
<td>Business Spanish II</td>
<td>PR: CI. Continuation of Business Spanish I. Even Spring.</td>
</tr>
<tr>
<td>SPN 3142</td>
<td>CAH-LANG</td>
<td>Business Spanish III</td>
<td>PR: CI. Continuation of Business Spanish II. Even Fall.</td>
</tr>
</tbody>
</table>
SPN 3234 CAH-LANG 3(3,0)
Advanced Directed Readings: PR: SPN 2200 or C.I. Use of Spanish literary and Spanish texts in general, to develop reading comprehension and analysis skills for non-native speakers. Fall, Spring.

SPN 3300 CAH-LANG 3(3,0)
Advanced Spanish Grammar and Composition: PR: SPN 2201 or equivalent. Advanced Spanish grammatical topics, idiomatic expressions, and continued development of writing skills based on the newly acquired concepts. Fall, Spring.

SPN 3341 CAH-LANG 3(3,0)
Advanced Spanish for Native Speakers: PR: SPN 2340 or C.I. This course is the continuation of SPN 2340 geared towards native speakers and will complete the remaining grammatical topics as well as emphasize composition skills. Occasional.

SPN 3343 CAH-LANG 3(3,0)
Advanced Rhetoric for Native Speakers: PR: Third-year level oral proficiency. Systematic study of Spanish grammar as applied to rhetoric in standard Spanish for native speakers only. Occasional.

SPN 3344 CAH-LANG 3(3,0)
Advanced Spanish Native Fluency I: PR: SPN 3300 or C.I. Advanced grammatical topics and composition skills for native or near-native fluency speakers. Fall.

SPN 3345 CAH-LANG 3(3,0)
Advanced Spanish Native Fluency II: PR: SPN 3344. Continuation of Advanced Spanish Native Fluency I emphasizing the remaining grammatical topics and composition skills. Spring.

SPN 3402 CAH-LANG 3(3,0)
Practice in Modern Spanish Grammar: PR: SPN 2241 or SPN 3420. This intensive Spanish course will provide the advanced student with practice and drill in modern Spanish using native texts. Occasional.

Advanced Spanish Composition: PR: SPN 2201 or equivalent. Development of skills in composition. Fall, Spring.

SPN 3512 CAH-LANG 3(3,0)
Contemporary Spanish Culture Abroad: PR: SPN 2241 or SPN 3420. This course will focus on contemporary Spanish culture presented through classroom lectures and discussions, assigned reading and scheduled activities. Occasional.

SPN 3760 CAH-LANG 3(3,0)
Advanced Spanish Oral Communication: PR: SPN 2201 or SPN 2240 or equivalent. Vocabulary building with systematic training in diction and pronunciation. Speeches and oral presentations as well as production and delivery of real-life dialogues. Fall, Spring.

SPN 3850 CAH-LANG 3(3,0)

SPN 3852 CAH-LANG 3(3,0)

SPN 3933 CAH-LANG 1(1,0)
Spanish Across the Curriculum: PR: SPN 2201 or C.I. CR: concurrent enrollment in a designated course. Improvement of skills in Spanish within the student's major or minor. Open to students in all colleges. May be repeated for credit. Fall, Spring.

SPN 4143 CAH-LANG 3(3,0)

SPN 4410 CAH-LANG 3(3,0)
Advanced Spanish Conversation: PR: SPN 3760, SPN 3420, and SPN 3300 or C.I. Advanced conversation on directed topics from various disciplines: Literature, art, psychology, philosophy, music, business, and the sciences. Fall.

SPN 4421 CAH-LANG 3(3,0)
Advanced Spanish Composition: PR: SPN 3300, SPN 3420, SPN 3760 or C.I. Readings and written imitations of modern literary styles in the form of themes, sketches, poems, and original stories. Even Spring.

SPN 4510 CAH-LANG 3(3,0)
Spanish Civilization and Culture: PR: SPN 3760, SPN 3420 and SPN 3300 or C.I. A study of Spanish civilization and culture from Pre-Roman times to the present. Conducted in Spanish. Occasional.

SPN 4520 CAH-LANG 3(3,0)
Latin American Civilization and Culture: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. An overview of the currents in Latin American culture and civilization from the Pre-Columbian period to the present. Conducted in Spanish. Occasional.

SPN 4780 CAH-LANG 3(3,0)
Spanish Phonetics: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Students will learn the basic principles of Spanish pronunciation and perfect the correct pronunciation of Spanish through intensive practice and oral drill. Occasional.

SPN 4800 CAH-LANG 3(3,0)
Spanish-American Syntax: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. The course examines the Spanish language from its beginning to the present, with special emphasis as it is written and spoken in Latin America and the U.S. Occasional.

SPN 4801 CAH-LANG 3(3,0)
Spanish Morphosyntax: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Emphasizes the structure as well as the capacity for recognizing the differences between semantics, morphology, syntax, and phonology in the Spanish language, as well as the use and correct application of criteria when analyzing texts. Taught in Spanish. Occasional.

SPN 4920 CAH-LANG 3(3,0)
Introduction to Spanish Linguistics: PR: Graduate status or senior standing or C.I. An introduction to main concepts and methods of analyses focusing on Spanish morphology, syntax, semantics, and phonology as well as dialectology and sociolinguistics. Odd Fall.

SPN 5425 CAH-LANG 3(3,0)
Spanish Dialectology: PR: Graduate status or senior standing or C.I. This course is a survey of the diversity found within the Spanish language with respect to phonological constraints, morphosyntax, second language influences, and historical development. Occasional.

SPN 5845 CAH-LANG 3(3,0)
History of the Spanish Language: PR: Graduate status or senior standing or C.I. An overview of linguistic characteristics of Latin and its evolution into Spanish with historical development of phonetic, morphological, and syntactic properties. Occasional.

SPN 5920 CAH-LANG 3(3,0)
AP Spanish Language: PR: Graduate status or senior standing or C.I. Participants will enhance their knowledge of the language and culture of Spanish-speaking peoples and develop further proficiency in listening, comprehension, speaking, reading, and writing. Occasional.

SPT 3800 CAH-LANG 3(3,0)
Spanish Translation and Interpretation: PR: Completion of 2000 level sequence or equivalent. Introduction to translation and interpretation, practical applications of theory applied to professional written and audio texts from Spanish to English and from English to Spanish. Fall, Spring.

SPT 3805 CAH-LANG 3(3,0)
Spanish Translation and Interpretation for Mass Communication: PR: SPN 3420. Translation and interpretation in mass communication using all forms of media. Even Spring.

SPT 3809 CAH-LANG 3(3,0)
Medical Spanish Translation/Interpretation: PR: SPN 2241 and SPN 3420. The basic Spanish terminology, techniques and ethics in the field of medical translation and interpretation. Odd Fall.

SPT 3831 CAH-LANG 3(3,0)
Spanish Legal Translation and Interpretation: PR: SPN 3420 and SPN 2241. The terminology, procedures and ethics required to be a Spanish language court interpreter and translator in the legal field. May be repeated for credit. Even Fall.

SPT 4801 CAH-LANG 3(3,0)

SPW 3000H CAH-LANG 3(3,0)
Honors: Nobel Prize Literature: Spain and Latin America: PR: Permission of Honors and Junior standing or C.I. Students will analyze, discuss and research English translations of Spanish and Latin American Nobel-Prize-Winning writers. Through readings, students will explore the universality of Spanish literature. Occasional.

SPW 3100 CAH-LANG 3(3,0)
Survey of Spanish Literature I: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works from the Middle Ages through the Eighteenth century. Fall.
SPW 3101 CAH-LANG 3(3,0) Survey of Spanish Literature II: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works of the Nineteenth century to the present. Spring.

SPW 3130 CAH-LANG 3(3,0) Survey of Latin-American Literature I: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works from the colonial period to Nineteenth Century Romanticism. Fall.

SPW 3131 CAH-LANG 3(3,0) Survey of Latin-American Literature II: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works of the Nineteenth century from Realism to the present. Spring.

SPW 3320 CAH-LANG 3(3,0) Modern Hispanic Theatre Workshop I: PR: C.I. Introduction to fundamental actor's technique and practice in Spanish. Short scenes will be performed in class. Occasional.

SPW 3321 CAH-LANG 3(3,0) Modern Hispanic Theatre Workshop II: PR: SPW 3320. Participation in a theatre production of a play in Spanish. Open to majors in Spanish, Theatre and any technical personnel. Fall.

SPW 3370 CAH-LANG 3(3,0) Spanish Short Story: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. A study of representative 19th and 20th-century Spanish short stories and their authors. Occasional.

SPW 4040 CAH-LANG 3(3,0) Spanish Literary Theory: PR: SPW 3100 and SPW 3130, or C.I. A study of the major authors and works of the 20th century. Texts selected are studied not only for their aesthetic value, but also in terms of their historical and cultural significance. Occasional.

SPW 4272 CAH-LANG 3(3,0) 20th Century Spanish Novel: PR: SPW 3101 or SPW 3131 or C.I. Major works by the leading authors of the 20th century. Texts selected are studied not only for their aesthetic value, but also in terms of their historical and cultural significance. Occasional.

SPW 4310 CAH-LANG 3(3,0) Golden Age Drama: PR: SPW 3100 or C.I. A study of the drama of the Golden Age, with special emphasis on Lope, Tirso, Alarcón, and Calderón. The controversies of the Spanish theatre and its influence abroad are examined. Occasional.

SPW 4322 CAH-LANG 3(3,0) Contemporary Iberian Theatre: PR: SPW 3101 or C.I. A study of the major playwrights and tendencies in contemporary Iberian theatre. Occasional.

SPW 4364 CAH-LANG 3(3,0) Latin-American Narrative/Essay: PR: SPW 3100 or SPW 3130 or SPW 3131 or SPW 3370 or C.I. Study of Latin-American narrative/essay (changing topics by semester) with emphasis in 20th-century texts, contrasting techniques, procedures, and literary theories. Course could be repeated for credit when topic changes. Occasional.

SPW 4381 CAH-LANG 3(3,0) Latin-American Theatre/Poetry: PR: SPW 3100 or SPW 3130 or SPW 3131 or SPW 3370. Study of Latin-American theatre/poetry (changing topics by semester) with emphasis in 20th-century texts, contrasting techniques, procedures, and literary theories. Course could be repeated for credit when topic changes. Occasional.

SPW 4382 CAH-LANG 3(3,0) Central American Literature: PR: SPW 3131 or C.I. This course familiarizes the student with literary works of prominent writers from Central America. It covers the different literary periods within Central American literary history. Taught in Spanish. Occasional.

SPW 4450 CAH-LANG 3(3,0) Spanish Literary Theory: PR: SPW 3100 and SPW 3130, or SPW 3130 and SPW 3313, or C.I. A study of critical criticism with emphasis in the theory of genre. Occasional.

SPW 4460 CAH-LANG 3(3,0) Nineteenth Century Spanish Literature: PR: SPW 3101 or C.I. A study of the representative authors and works in Spanish Romanticism, Realism, and Naturalism. Occasional.

SPW 4600 CAH-LANG 3(3,0) Cervantes: PR: SPW 3100 or C.I. Don Quijote. Occasional.

SPW 4720 CAH-LANG 3(3,0) The Generation of 1898: PR: SPW 3101 or C.I. A study of the generation's main authors and their works. Occasional.

SPW 4730 CAH-LANG 3(3,0) Hispanic Literature of the United States: PR: SPW 3101 or SPW 3131 or C.I. Reading and study of outstanding works written by Hispanic writers of the United States. Occasional.

SPW 4770 CAH-LANG 3(3,0) Caribbean Spanish Literature: PR: SPW 3101 or SPW 3131 or C.I. An overview of the literature of the Spanish-speaking Caribbean countries from colonial times to the present. Occasional.

SPW 4772 CAH-LANG 3(3,0) Black Presence in Contemporary Latin American Literature: PR: SPW 3101 or SPW 3131 or C.I. A study of representative contemporary works of authors who have included the black character as part of their narrative. Occasional.

SPW 4773 CAH-LANG 3(3,0) Puerto Rican Literature: PR: SPW 3100 and SPW 3101 or SPW 3130 and SPW 3131. Puerto Rican Literature from XIX Century to present. Conducted in Spanish. Occasional.

SPW 5741 CAH-LANG 3(3,0) Contemporary Spanish American Southern Cone Literature: PR: Enrolled in Spanish M.A. Program or C.I. Regional as well as international literary currents and disciplines in southern cone literature. Occasional.

SSE 5776 ED-TLP 3(3,0) Democracy and Education: PR: Graduate standing or C.I. 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. Fall.

SSE 5790 ED-TLP 3(3,0) Inquiry and Instructional Analysis in Social Science Education: PR: Admission to M.A. program or alternative certification certificate program. 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. Occasional.

STA 1060C COS-STAT 3(2,1) Basic Statistics Using Microsoft Excel: Applications of Excel, manipulating data, single variable graphs and statistics, scatterplots, probability distributions, statistical inference. Fall, Spring.

STA 2014C COS-STAT 3(2,1) Principles of Statistics: Introduction to statistical concepts in modern society. Basic principles, frequency distributions, measures of location and dispersion, probability, statistical inference. The "NC" grading policy applies to this course. Fall, Spring.

STA 2022 COS-STAT 3(3,0) Statistical Methods I: PR: MAC 1105 or MGF 1106. First methods course introducing probability and statistical inference, including estimation, hypothesis testing, binomial and normal distributions, sample size. Fall, Spring.

STA 2023H COS-STAT 3(3,0) Honors Statistical Methods I: PR: Permission of Honors; Calculus desired by not necessary. Same as STA 2023 with honors-level content. Fall, Spring.

STA 3032 ECS-IEMS 3(3,0) Probability and Statistics for Engineers: PR: MAC 2312 and computer programming. Axioms of probability; combinatorial and geometrical probability; probability distributions; measures of location and dispersion; sampling and sampling distributions; estimation and tests of hypotheses; engineering applications. Fall, Spring.

STA 3032H ECS-IEMS 3(3,0) Honors Probability and Statistics for Engineers: PR: MAC 2312 and honors standing. Fundamental probability and statistics principles, the underlying assumptions, the procedures for implementing and interpreting them. With honors content. Fall, Spring.

STA 3096 COS-STAT 3(3,0) Statistical Graphics: PR: STA 2023 or STA 3032 and a knowledge of a programming language. Principles of graph construction, graphical perception, graphical methods, computer programs for graph construction. Occasional.

STA 4102 COS-STAT 3(3,0) Computer Processing of Statistical Data: PR: STA 4163 and knowledge of a programming language. Use of packages such as SAS, BMD, SPSS for data validation, description and analysis of data, regression and analysis of variance and covariance. Fall.

STA 4130 COS-STAT 3(3,0) Life Contingencies I: PR: STA 4183 (or new number STA 4183). Economics of insurance, utility theory, single premiums for insurance and annuities in both discrete and continuous cases. Net annual premium and net premium reserves. Fall.

STA 4163  COS-STAT  3(3,0)  Statistical Methods II:  PR:  STA 2023 or STA 3032.  Not open to students with credit in STA 4165.  Methods of analyzing data, statistical models, estimation, tests of hypotheses, regression and correlation, an introduction to analysis of variance, chi-square, and nonparametric methods.  Fall, Spring.

STA 4164  COS-STAT  3(3,0)  Statistical Methods III:  PR:  STA 4163.  A continuation of STA 4163, including further study of regression, analysis of variance and covariance and multiple comparisons.  Fall, Spring.

STA 4173  COS-STAT  3(3,0)  Biostatistical Methods:  CR:  STA 4163.  Introduction to the application of statistical principles and methods to problems in medical, biological, and health sciences.  Occasional.

STA 4183  COS-STAT  3(3,0)  Theory of Interest:  PR:  MAC 2312 (or equivalent) and STA 2023.  Measurement of simple and compound interests, accumulated and present values factors.  Annuities certain, yield rates, amortization schedules and sinking funds.  Bonds, securities and related funds.  Fall.


STA 4321  COS-STAT  3(3,0)  Statistical Theory I:  PR:  STA 2023 or STA 3032; CR:  MAC 2313.  Probability axioms, discrete and continuous sample spaces, conditional probability, independence, one-dimensional random variables, moment generating functions, transformations, jointly distributed random variables.  Fall.


STA 4502  COS-STAT  3(3,0)  Nonparametric Statistical Methods:  PR:  STA 2023 or STA 3032.  Distribution-free tests on location and dispersion, goodness of fit tests, tests of independence, measures of association, nonparametric analysis of variance.  Occasional.

STA 4504  COS-STAT  3(3,0)  Categorical Data Analysis:  PR:  STA 4163 or STA 4165.  Two-way and three-way contingency tables, odds ratios, partial association, logistic regression and log linear models.  Occasional.


STA 4664  COS-STAT  3(3,0)  Statistical Quality Control:  PR:  STA 2023 or STA 3032.  Statistical concepts and methods applied to the control of quality of manufactured products.  Occasional.


STA 4939  COS-STAT  3(3,0)  Problems in Actuarial Science:  PR:  STA 4322.  Fundamental mathematical and statistical tools for quantitatively assessing risk; application of these tools to problems in actuarial science. May be repeated for credit.  Occasional.

STA 4942  COS-STAT  3(3,0)  Practicum in Actuarial Science:  PR:  STA 4183 or STA 5185.  Discussion and presentation by actuarial practitioners.  Occasional.


STA 5103  COS-STAT  3(3,0)  Advanced Computer Processing of Statistical Data:  PR:  STA 4163 and knowledge of a programming language, other statistical software packages; data manipulation; graphical data presentation; data analysis; creating analytical reports.  Fall.


STA 5175  COS-STAT  3(3,0)  Biometry:  PR:  STA 2023, graduate status or senior standing, or C.I.  Design and analysis of experiments with emphasis on biological/ecological application; one-way and multiple ANOVA; regression; ordination; classification.  Spring.

STA 5176  COS-STAT  3(3,0)  Introduction to Biostatistics:  PR:  STA 4163 or STA 4173, graduate status or senior standing, or C.I.  Fixed-effects model, random-effects model, repeated measures design, logistic regression, survival analysis, Kaplan-Meier estimates, proportional hazards model.  Occasional.

STA 5185  COS-STAT  3(3,0)  Advanced Theory of Interest:  PR:  MAC 2312 and STA 2023, graduate status or senior standing, or C.I.  Measurement of interest, valuation of annuities, determination of yield rates on investments, fixed income securities, mortgages, etc.  Fall.

STA 5205  COS-STAT  3(3,0)  Experimental Design:  PR:  STA 4154, STA 5206 or ESI 5219, and graduate status or senior standing, or C.I.  Construction and analysis of designs for experimental investigations.  Blocking, randomization, replication, incomplete block designs, factorial and fractional designs; design resolution.  Spring.

STA 5206  COS-STAT  3(3,0)  Statistical Analysis:  PR:  STA 2023; not open to students who have completed STA 4104.  Graduate status or senior standing or C.I.  Data analysis; statistical models, estimation, tests or hypotheses; analysis of variance, covariance, and multiple comparisons; regression and nonparametric methods.  Fall.

STA 5505  COS-STAT  3(3,0)  Categorical Data Methods:  PR:  STA 4163 or STA 5206, and graduate status or senior standing or C.I.  Considers discrete probability distributions, contingency tables, measures of association, and advanced methods, including loglinear modeling, logistic regression, McNemar's Test, Mantel-Haenszel test.  Occasional.

STA 5564  COS-STAT  3(3,0)  Casualty Insurance:  PR:  STA 4322 and STA 4641, graduate status or senior standing, or C.I.  Individual risk rating and classification of risk for property/casualty insurance.  Ret insurance and expense issues.  Reserves for insurance and loss adjustment expenses.  Investment income.  Occasional.

STA 5703  COS-STAT  3(3,0)  Data Mining Methodology I:  PR:  STA 5103 and STA 5206, graduate status or senior standing, or C.I.  Data mining to uncover valuable information through SEMMA (Sample, Explore, Model, Modify, and Access).  Process with neural network and decision tree.  Fall.

STA 5825  COS-STAT  3(3,0)  Stochastic Processes and Applied Probability Theory:  PR:  STA 432L, and graduate status or senior standing or C.I.  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.  Spring.

STA 5940  COS-STAT  1(1,0)  Statistical Advice for Researchers:  PR:  Graduate status or senior standing or C.I.  Discussion of student-supplied statistical problem, data sources, sampling techniques, computer package usage, analysis, interpretation.  May be repeated for credit.  Graded S/U.  Occasional.

SUR 2101C  ECS-CEE  3(2,3)  Surveying:  PR:  MAC 2311 and Junior standing.  Theory and field practice in surveying measurements and the reduction and adjustment of field data.  Spring.
SYA 3110 COS-SOC 3(3,0) The Development of Social Thought: PR: Junior standing and 9 hours of upper level sociology courses or C.I. Theories concerning the nature of mankind as a "social being." The nature of society from the beginnings of the scientific study of human life to World War II. Spring.

SYA 3120 COS-SOC 3(3,0) Modern Sociological Thought: PR: Junior standing and 9 hours of upper level sociology courses or C.I. A study of major European and American contributors to modern sociology since World War II. Occasional.

SYA 3400 COS-SOC 4(3,1) Research Methods and Statistics: PR: SYG 2000 and one other sociology course. Fall.


SYA 4300 COS-SOC 4(3,2) Research Methods: PR: SYG 2000 or SYG 2010 and SYA 3400 or C.I. Sociological data collections, sampling techniques, grant proposal development, critical evaluation of social research, and relationship between theory and social research. Fall.


SYA 4450 COS-SOC 4(3,2) Data Analysis: PR: SYA 4300 and SYA 3400. Advanced social research design and analytical skills. Emphasis on social data management, various modes of social data analysis, interpretation, integration, presentation, and report writing. Spring.


SYA 5625 COS-SOC 3(3,0) ProSeminar: PR: Graduate status or senior standing or C.I. 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. Fall.

SYA 5652 COS-SOC 3(3,0) Advanced Population: PR: Graduate status or senior standing or C.I. Examines the theories, methods, and information utilized by demographers and focuses on techniques of application of those skills. Occasional.


SYD 3700 COS-SOC 3(3,0) Race and Ethnic Minorities in the United States: Theoretical analysis of the emergence, maintenance, and disruption of patterns of racial and ethnic stratification. Fall, Spring.


SYD 3751 COS-SOC 3(3,0) North American Indian Women Today: PR: 2000 level social science course or C.I. Examination of works of modern North American Indian women within context of sovereign rights. Issues include myths, gender roles, coerced sterilization, child welfare, and economic opportunities. Occasional.

SYD 3752 COS-SOC 3(3,0) Modern Law in Indian Country: PR: 2000 level social science course or C.I. Examination of impact of unique legal relationship between American Indian governments and state federal governments. Legal issues include criminal justice, child welfare, and land ownership. Occasional.

SYD 3800 COS-SOC 3(3,0) Sex Roles in Modern Society: PR: 2000 level social science or C.I. The traditional and changing roles of women and men viewed in a sociological perspective. Fall, Spring.

SYD 4020 COS-SOC 3(3,0) Population: PR: 2000 level social science or C.I. Study of the family, education, religion, economy and polity. Occasional.

SYD 4510 COS-SOC 3(3,0) Environmental Sociology: PR: SYG 2000 or C.I. Applies the sociological perspective and sociological methods of analysis to the relationships between human behavior and the environment. Odd Spring.

SYD 4514 COS-SOC 3(3,0) Environmental Movement: PR: SYG 2000 or SYG 2010 or C.I. Origins, evolution, current status and societal impacts of the environmental movement via sociological theory, concepts and research on social movements. Occasional.

SYD 4810 COS-SOC 3(3,0) Women in Contemporary Society: PR: SYG 2000 or WST 3015 or C.I. Examination and evaluation of the status of women in the context of the major social institutions (e.g., family, education, religion, economy and politics). Fall, Spring.


SYD 5517 COS-SOC 3(3,0) Environment and Society: PR: Graduate standing or C.I. The application of sociological theory and methods to the relationships between communities, societies, and the environment. Occasional.

SYG 2000 COS-SOC 3(3,0) General Sociology: PR: Permission of Honors. Extensive honors work in the field of Sociology. Expectations, requirements, and standards are greater than for standard General Sociology. Fall, Spring.

SYG 2000H COS-SOC 3(3,0) General Sociology: PR: Permission of Honors. Extensive honors work in the field of Sociology. Expectations, requirements, and standards are greater than for standard General Sociology. Fall, Spring.

SYG 2010 COS-SOC 3(3,0) Social Problems: PR: Junior standing and 9 hours of upper level sociology courses or C.I. Analysis of major social problems such as mental disorders, sexual deviance, racial discrimination, poverty, community disorganization, and violence. Fall, Spring.

SYG 3949 COS-SOC 0(0,8) Cooperative Education in Sociology: PR: Departmental permission required before registering. Cooperative education experience in sociology. May be repeated. Graded S/U. Occasional.

SYO 3000 COS-SOC 3(3,0) Modern Sociology: PR: SYG 2000 or SYG 2010 or C.I. Exploration of contemporary sociology. Conceptual analysis and methodological techniques, presentation and utilization of sociological literature on major social institutions. Occasional.

SYO 3360 COS-SOC 3(3,0) Social Organization and Human Relations: Analysis of business, government, and industrial organizations. Topics include organizational theory, social systems, social structure, effects of technology, motivation, leadership, decision-making, and human relations. Occasional.

SYO 3410 COS-SOC 3(3,0) Sociology of Mental Illness: A sociological examination of mental illness as a social problem; legal aspects of mental illness, and the mental health professions. Occasional.

SYO 3530 COS-SOC 3(3,0) Social Stratification: PR: SYG 2000 or SYG 2010 or C.I. Status, status and power, cultural variations in stratification systems; patterns of mobility and change. Occasional.

SYO 4100 COS-SOC 3(3,0) Family Trends: PR: SYG 2000 or SYG 2010 or C.I. Intimate relationships, practices, trends and issues affecting today's marriages and families. Fall, Spring.

SYO 4200 COS-SOC 3(3,0) Sociology of Religion: PR: SYG 2000 or C.I. The relationship between religious institutions and social stratification, family, education, as well as issues pertaining to gender, race, ethnicity, and age. Occasional.

SYO 4250 COS-SOC 3(3,0) Sociology of Education: PR: SYG 2000 or C.I. This course examines the sociological dimensions of the educational institutions, including the impact of the social structure on learning and the role of education in social change. Occasional.

SYO 4300 COS-SOC 3(3,0) Political Sociology: PR: SYG 2000 or C.I. Examination of political and parapolitical groups; socioeconomic variable of voting behavior; power elites; societies and systems of government. Occasional.

SYO 4400 COS-SOC 3(3,0) Medical Sociology: PR: SYG 2000 or C.I. Examination of patient behavior and behavior, health practitioners, the social organization of hospitals and health services, contemporary problems in the delivery of health care. Occasional.
SYP 3300 COS-SOC 3(3,0)  Collective Behavior: PR: SYG 2000 or C.I. Analysis of relatively unstructured social situations, such as mobs, crowds, etc. as well as more structured forms of collective behavior such as social movements. Occasional.

SYP 3400 COS-SOC 3(3,0)  Social Change: PR: SYG 2000 or SYG 2010 or C.I. Content and essential sources of social development and change. Occasional.

SYP 3510 COS-SOC 3(3,0)  Sociology of Deviant Behavior: PR: SYG 2000 or SYG 2010 or C.I. Sociological examination of the types of, and societal reactions to, deviant behavior with special emphasis on stigmatization. Spring.

SYP 3511 COS-SOC 3(3,0)  Sociology of Murder: PR: SYG 2000 or SYG 2010 or C.I. An analytical study of murder in the U.S.; topics include different types of homicides, offenders, victims, and circumstances. Fall.

SYP 3520 COS-SOC 3(3,0)  Criminology: PR: SYG 2000 or SYG 2010 or C.I. Chief causes of anti-social behavior and current methods of prevention and reform. Effects of heredity and environment, prevalence of delinquency and crime, penal institutions. Fall, Spring.

SYP 3530 COS-SOC 3(3,0)  Juvenile Delinquency: Types of delinquency behavior found among juveniles; possible causes and ways society attempts to treat the various forms of delinquency. Occasional.

SYP 3540 COS-SOC 3(3,0)  Sociology of Law: PR: SYG 2000 or SYG 2010 or C.I. The relationship between law and society, including the functions of law and its organization, social and economic consequences, jury selection, and modern trends. Occasional.

SYP 3551 COS-SOC 3(3,0)  Sociology of Alcoholism: Introduction to the nature of alcoholism and review of its impact on society. Occasional.

SYP 3562 COS-SOC 3(3,0)  Sociological Perspectives on Domestic Violence: PR: SYG 2000 or C.I. Sociological perspectives on all forms of domestic violence, including theoretical explanations, prevalence, risk factors, dynamics of prevention, and intervention. Occasional.

SYP 3602 COS-SOC 3(3,0)  Sociology of Popular Music: PR: SYG 2000 or SYG 2010 or C.I. The role of popular music in social change and in reflecting American culture. Consideration is given to the nature of the popular music business. Occasional.

SYP 3630 COS-SOC 3(3,0)  Sociology of Popular Culture: PR: Junior Standing or C.I. Examines the relationship between contemporary popular culture and social institutions, collective identities, social change, gender, ethnicity and age. Occasional.

SYP 3650 COS-SOC 3(3,0)  Sociology and Sport: PR: SYG 2000 or SYG 2010 or C.I. Utilization of sociological concepts and theories to investigate sport as a social institution. Includes subjects of racism, sexism, drug abuse, violence, and current issues of sport. Occasional.

SYP 4000 COS-SOC 3(3,0)  Sociological Social Psychology: PR: SYG 2000 or C.I. Study of social perception, attitude formation and change, motivation, and decision-making in small groups as affected by social interaction and social processes. Occasional.

SYP 4004 COS-SOC 3(3,0)  Constructing Social Issues: PR: SYG 2000 or SYG 2010 or C.I. Sociological examination of social problems as an emergent process that involves collective definitions and legitimating organizations. Topics include deviance, race, gender and popular culture. Occasional.

SYP 4304 COS-SOC 3(3,0)  Social Movements and Revolutions: PR: SYG 2000 or C.I. Comparative sociology of revolutions and the sociological research on social movements. Occasional.

SYP 4323 COS-SOC 3(3,0)  Social Systems and Diversity: PR: SYG 2000, junior standing. The formation of social systems in response to social problems and the implementation of public policy. Emphasis on diverse perspectives and ethical positions and their effect on the form and effectiveness of social systems. Occasional.


SYP 4521 COS-SOC 3(3,0)  Criminal Victimization in Society: PR: SYG 2000, or SYG 2010 or C.I. Crime victims in society; topics include issues related to victimology such as victimization risks and societal treatment of victims. Occasional.

SYP 4536 COS-SOC 3(3,0)  Gangs and Society: PR: SYG 2000 or SYG 2010 or C.I. Gangs in the U.S.; topics include types of gangs, gang members, activities, group processes, and societal responses to gangs. Occasional.


SYP 4730 COS-SOC 3(3,0)  Sociology of Aging: PR: SYG 2000 or SYG 2010 or C.I. Sociological aspects of aging in America. Fall, Spring.

SYP 4734 COS-SOC 3(3,0)  Minority Aging: PR: SYG 2000 or SYD 3700 or SYG 4130 or C.I. A sociological examination of older populations within minorities: ethnic minorities, women, and gay men and lesbians. Occasional.

SYP 5005 COS-SOC 3(3,0)  Sociological Social Psychology: PR: Graduate status or senior standing or C.I. An exploration of sociological social psychological theories and their application in understanding the effects of society and groups on the individual. Occasional.

SYP 5525 COS-SOC 3(3,0)  Sociological Criminology: PR: Graduate status or senior standing or C.I. To examine current sociological knowledge and research on various issues in Criminology, and to further students’ skills in developing/conducting research projects. Occasional.

SYP 5564 COS-SOC 3(3,0)  Seminar on Domestic Violence: Theory, Research and Social Policy: PR: Graduate status or senior standing or C.I. A sociological examination and evaluation of theories; empirical research and social policy related to the study of domestic violence. Occasional.

SYP 5615 COS-SOC 3(3,0)  Sociology of Culture: PR: Graduate standing or C.I. Major theoretical approaches and empirical studies in the sociology of culture and analysis of cultural processes. Occasional.

SYP 5738 COS-SOC 3(3,0)  Seminar on the Welfare State & Aging: PR: Graduate status or senior standing or C.I. Major theoretical approaches and empirical studies in the sociology of culture and analysis of cultural processes. Occasional.

TAX 4001 BA-ACCT 3(3,0)  Taxation of Business Entities and Transactions: PR: Junior standing plus completion of AGC 2021 and AGC 2071 with a grade of “C” or higher. Federal income tax laws affecting the taxation of business entities and transactions. Fall, Spring.

TAX 5015 BA-ACCT 3(3,0)  Advanced Tax Topics: PR: Accounting major or minor, TAX 4001 or equivalent. Advanced tax issues affecting individuals and business entities, including corporations and partnerships. Fall, Spring.

THE 2000 CAH-THEA 3(3,0)  Theatre Survey: Overview of the art and craft of the theatre. Restricted to non majors. Fall, Spring. M&S fee: $5.00


THE 2020 CAH-THEA 3(3,0)  Survey of Theatre for Majors: PR: Theatre major or departmental consent. Overview of the art and craft of theatre. Fall.

THE 2050 CAH-THEA 3(3,0)  Theatre Studies in Creative Drama: PR: Theatre major or departmental consent. Techniques and theories for facilitating creative drama with youth, as both an art form and teaching tool. Occasional.

THE 2090L CAH-THEA 1(0,VAR)  Theatre Participation-Management I: PR: Theatre major or departmental consent. Participation in UCF Theatre productions. May be repeated for credit 8 times. Fall, Spring.

THE 2304 CAH-THEA 3(3,0)  Script Analysis: PR: Theatre major or minor. Exploration of dramatic form with focus on playscripts for productions. Fall, Spring.

THE 2925 CAH-THEA 0(0,0)  Theatre Participation: PR: Theatre major or department consent. Participation in UCF Theatre productions. May be repeated. Graded S/U. Fall, Spring.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>THE 3082</td>
<td>CAH-THEA 3(3,0)</td>
<td>Theatre Careers: PR: B.A. Theatre major, Sophomore standing, C (2.0) or better required in THE 2000 or THE 2020. Techniques to secure employment in theatre and related fields. Occasional.</td>
</tr>
<tr>
<td>THE 3110</td>
<td>CAH-THEA 3(3,0)</td>
<td>Theatre History I: PR: (THE 2000 or THE 2000) and THE 2304 and Theatre major or departmental consent. Development of theatre arts from prehistory through the 17th century. Occasional.</td>
</tr>
<tr>
<td>THE 3212</td>
<td>CAH-THEA 3(3,0)</td>
<td>Global Theatre: PR: Grade of C (2.0) or better required in THE 2020 or THE 2000. Theatrical arts and traditions of various countries with an emphasis on non-western cultures. Occasional.</td>
</tr>
<tr>
<td>THE 3230</td>
<td>CAH-THEA 3(3,0)</td>
<td>Commonality within Cultural Diversity Experienced Through Theatre: PR: Grade of C (2.0) or better required in THE 2020 or THE 2000. Through the study of dramatic literature, this course explores the commonality of human experience among various cultural groups. Occasional.</td>
</tr>
<tr>
<td>THE 3240</td>
<td>CAH-THEA 3(3,0)</td>
<td>Musical Theatre Survey: PR: Grade of C (2.0) or better required in THE 2020 or THE 2000. Through the study of dramatic literature, this course explores the commonality of human experience among various cultural groups. Occasional.</td>
</tr>
<tr>
<td>THE 3282</td>
<td>CAH-THEA 3(3,0)</td>
<td>Period Props and Furniture: PR: THE 2020 or THE 2000, and Theatre major or departmental consent. Viewing and discussion of major styles of architecture, ornament, fabric, and furniture that individualize the specific time and location from Egypt to Deco. Occasional.</td>
</tr>
<tr>
<td>THE 3305</td>
<td>CAH-THEA 3(3,0)</td>
<td>Dramatic Literature I: PR: (THE 2020 or THE 2000) and THE 2304 and Theatre major or departmental consent. Playscripts from Sophocles to Jonson. Occasional.</td>
</tr>
<tr>
<td>THE 3311</td>
<td>CAH-THEA 3(3,0)</td>
<td>Theatre History and Dramatic Literature I: PR: C (2.0) in THE 2304 and Sophomore standing. Theatre history and drama from the Greeks to the Renaissance. Occasional.</td>
</tr>
<tr>
<td>THE 3312</td>
<td>CAH-THEA 3(3,0)</td>
<td>Theatre History and Dramatic Literature II: PR: C (2.0) in THE 2304 and Sophomore standing. Theatre history and drama from the Greeks to the Renaissance. Occasional.</td>
</tr>
<tr>
<td>THE 3313</td>
<td>CAH-THEA 3(3,0)</td>
<td>Theatre History and Dramatic Literature III: PR: C (2.0) in THE 2304 and Sophomore standing. Theatre history and drama from modern realism to present. Occasional.</td>
</tr>
<tr>
<td>THE 4093L</td>
<td>CAH-THEA 1(0,VAR)</td>
<td>Theatre Participation-Management: PR: THE 2000L and Theatre major. Participation in UCF Theatre productions. May be repeated for credit 8 times. Fall, Spring.</td>
</tr>
<tr>
<td>THE 4244</td>
<td>CAH-THEA 3(3,0)</td>
<td>Musical Theatre History I: PR: B.F.A. Musical Theatre major, C (2.0) or better required in THE 2020 or THE 2000. Origins and evolution of Musical Theatre from the Ancient Greeks through the 1950's. Fall.</td>
</tr>
<tr>
<td>THE 4245</td>
<td>CAH-THEA 3(3,0)</td>
<td>Musical Theatre History II: PR: B.F.A Musical Theatre major, C (2.0) or better required in THE 4244. Origins and evolution of Musical Theatre from the 1950s through the present. Spring.</td>
</tr>
<tr>
<td>THE 5246C</td>
<td>CAH-THEA 3(3,2)</td>
<td>Musical Theatre: PR: grade acting 1, graduate status, or C.I. Historical study of the origins and development of musical theatre up to and including the work of Andrew Lloyd Webber. Spring.</td>
</tr>
<tr>
<td>THE 5248</td>
<td>CAH-THEA 3(3,0)</td>
<td>Musical Theatre in History: PR: Admission to MFA Musical Theatre Program. 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. Fall.</td>
</tr>
<tr>
<td>THE 5385</td>
<td>CAH-THEA 3(3,0)</td>
<td>Dramatic Literature for Children: PR: Admission to MFA graduate program or C.I. An in-depth study of the growth and development of dramatic literature for children. Even Fall.</td>
</tr>
<tr>
<td>THE 5910</td>
<td>CAH-THEA 3(3,0)</td>
<td>Research Methods in Theatre: PR: MFA and MA in Theatre. Practice knowledge, skills and techniques needed by students to conduct research to include organization, styles, footnotes, and bibliographic forms. Fall.</td>
</tr>
<tr>
<td>THE 5945L</td>
<td>CAH-THEA 1(0,20)</td>
<td>Theatre Practicum I: PR: Graduate status or C.I. A laboratory course designed to develop students’ practical working knowledge in theater. Occasional.</td>
</tr>
<tr>
<td>THE 5946L</td>
<td>CAH-THEA 1(0,20)</td>
<td>Theatre Practicum II: PR: Admission into the graduate program, Theatre Practicum I. Laboratory course designed to develop students’ practical working knowledge in theater. Occasional.</td>
</tr>
<tr>
<td>TPA 2000C</td>
<td>CAH-THEA 3(2,2)</td>
<td>Theatre Design Basics: PR: BFA Design/Tech or Stage Management major, C (2.0) or better required in THE 2020 or THE 2000. Basic design skills for scenic, lighting and costume designers using color, grayscales, textures and symmetry to create a strong stage presence. Fall.</td>
</tr>
<tr>
<td>TPA 2011C</td>
<td>CAH-THEA 3(2,2)</td>
<td>Theatre Rendering: PR: BFA Design/Tech or Stage Management major, C (2.0) or better required in THE 2020 or THE 2000. Specific rendering techniques used to create visual images for scenic, lighting, and costume designers. Spring.</td>
</tr>
<tr>
<td>TPA 2210</td>
<td>CAH-THEA 2(0,2)</td>
<td>Technical Theatre Production: PR: B.A. Theatre or B.F.A. Musical Theatre/Acting major, C (2.0) or better required in PR: or CR: THE 2020 or THE 2000, and PR: or CR: TPA 2211L. Development, theory and practice of all areas of technical theatre production. Fall, Spring.</td>
</tr>
<tr>
<td>TPA 2210L</td>
<td>CAH-THEA 3(3,0)</td>
<td>Stagecraft I: PR: BFA Design/tech or Stage Management major, C (2.0) or better required in CR: TPA 2210L. Development, theory, and practice of technical theatre production. Fall.</td>
</tr>
<tr>
<td>TPA 2211L</td>
<td>CAH-THEA 1(0,6)</td>
<td>Stagecraft I Lab: CR: TPA 2210. Practical projects in scenic and property construction. Occasional.</td>
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<tr>
<td>TPA 2220</td>
<td>CAH-THEA 3(2,2)</td>
<td>Stage Lighting: PR: THE 2020 or THE 2000 and BFA Design/tech or Stage Management majors. Study of basic electricity, optics, lighting equipment and control, and stage lighting techniques and practices. Service on a lighting crew as required. Required of all technical theatre/design majors. Fall.</td>
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<tr>
<td>TPA 2290L</td>
<td>CAH-THEA 1(0,VAR)</td>
<td>Theatre Participation-Production: PR: Grade of C (2.0) or better required in TPA 2201L and TPA 2201L, or TPA 2210 or departmental consent. Participation in UCF Theatre productions. May be repeated for credit 8 times. Fall, Spring.</td>
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<tr>
<td>TPA 2600</td>
<td>CAH-THEA 3(3,0)</td>
<td>Stage Management Basics: PR: C (2.0) in THE 2020 or THE 2000, and BFA Stage Management major. Functions and responsibilities of professional stage managers. Occasional.</td>
</tr>
<tr>
<td>TPA 3040</td>
<td>CAH-THEA 3(2,2)</td>
<td>Costume Design for Theatre II: PR: Grade of C (2.0) or better required in TPA 2010. Projects in the fundamentals of costume design for the stage. Fall.</td>
</tr>
<tr>
<td>TPA 3043C</td>
<td>CAH-THEA 3(3,1)</td>
<td>Costume History I: PR: Theatre major or departmental consent, C (2.0) or better required in PR: or CR: THE 3110. Costume fashion from ancient Egypt to the mid 17th century, including basic period silhouette, costume parts and accessories. Fall.</td>
</tr>
<tr>
<td>TPA 3044C</td>
<td>CAH-THEA 3(3,1)</td>
<td>Costume History II: PR: Restricted to Theatre majors or departmental consent, C (2.0) or better required in TPA 3043C. Costume fashion from the mid 17th century to the present, including basic period silhouette, costume parts and accessories. Spring.</td>
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</table>
TPA 3060C CAH-THEA 3(2,2) Scenic Design for Theatre I: PR: Grade of C (2.0) or better required in TPA 2010. Projects in the fundamentals of scenic design for the stage. Fall.

TPA 3061 CAH-THEA 3(2,2) Scene Design II: PR: Restricted to B.F.A. technical theatre/design majors or Departmental consent. C (2.0) or better required in TPA 3060C. Continuation of TPA 3060C. An intensive, practical scenic design course dealing with various theatrical styles, genres, multiple and simultaneous settings. Includes script analysis and project design work with an emphasis on visualization of design concepts through models and scenic renderings. Required of all B.F.A. technical theatre/design majors. Spring. 

TPA 3077 CAH-THEA 3(2,2) Scene Painting: PR: Grade of C (2.0) or better required in TPA 2000C and TPA 2071C. Projects in scene painting techniques. Fall.

TPA 3195 CAH-THEA 3(3,0) Theatre Studio/Tech/Design: PR: Junior standing. Theatre major or C.I. Study, analysis and execution of technical/design aspects for playscripts produced on UCF mainstage. May be repeated for credit. Occasional.

TPA 3197 CAH-THEA 3(3,0) Summer Theatre Studio/Tech/Design: PR: Departmental consent. Production assignments and responsibilities during the rehearsals/performances of playscripts produced on the UCF mainstage. May be repeated for credit. Occasional.

TPA 3221 CAH-THEA 3(2,2) Lighting Design for Theatre I: PR: Grade of C (2.0) or better required in TPA 2010. Projects in the fundamentals of lighting design for the stage. Spring.

TPA 3230 CAH-THEA 3(2,2) Costume Construction: PR: BFA Design/Tech or Stage Management major or Department Consent, C (2.0) or better required in TPA 2210 or TPA 2290L. Lecture/laboratory study of the basic techniques used in the drafting, cutting, fitting, and construction of stage costumes. Required of all technical theatre/design majors. Spring.

TPA 3249 CAH-THEA 2(2,2) Advanced Make-up Techniques: PR: Restricted to B.F.A. Theatre majors or departmental consent, C (2.0) or better required in TPA 2248C. Lecture/laboratory study of basic techniques needed for the creation of stage and film prosthetics and masks. Occasional.

TPA 3250 CAH-THEA 2(2,2) CAD for Theatre: PR: Restricted to B.F.A. Theatre majors or departmental consent, C (2.0) or better required in TPA 2211. Fundamental computer aided drafting and design and its application for Theatre. Fall.

TPA 3251 CAH-THEA 2(2,2) Advanced CAD for Theatre: PR: Restricted to B.F.A. Theatre majors or departmental consent, C (2.0) or better required in TPA 3250. Advanced computer aided drafting and design and its application for Theatre. Spring.

TPA 3260 CAH-THEA 3(3,0) Sound Design for Theatre: PR: THE 2020 or THE 2000, TPA 2211. Restricted to Theatre majors or departmental consent. Exploration of the aesthetic and technological aspects of sound as they relate to the art and craft of theatre majors. Spring.

TPA 3401 CAH-THEA 3(3,0) Theatre Careers for Tech/Management: PR: B.F.A. Theatre majors, Junior standing. Exploration and assimilation of successful marketing techniques needed to secure employment in Theatre or related segments of the entertainment industry. Spring.

TPA 3601 CAH-THEA 3(3,0) Stage Management: PR: Grade of C (2.0) or better required in TPA 2___ (Stage Management Basics). Responsibilities of the stage manager prior to, during, and after performance as related to Departmental productions as well as professional union requirements. Fall.

TPA 4041C CAH-THEA 3(2,2) Costume Design II: PR: Grade of C (2.0) or better required in TPA 3040. A continuation of Costume Design I. Costume Design including research, color, body types, and fabric to generate costume design sketches for theatrical play productions. Spring.

TPA 4224 CAH-THEA 3(3,0) Lighting Design II for Theatre: PR: C (2.0) in TPA 3221. Project lighting design work with an emphasis on visualization of design concepts, professional graphics, and paperwork standards and practices. Occasional.

TPA 4264C CAH-THEA 3(2,2) Sound Design II for Theatre: PR: C (2.0) in TPA 3260. Project sound design work with an emphasis on design communication and professional standards and practices. Occasional.

TPA 4293L CAH-THEA 1(0, VAR) Theatre Participation-Production III: PR: Theatre major, C (2.0) or better required in TPA 2290L. Participation in UCF Theatre Productions. May be repeated for credit 8 times. Fall, Spring.

TPA 4400 CAH-THEA 3(3,0) Theatre Management: PR: Grade of C (2.0) or better required in TPA 2210. Study of student organization, management, funding, and promotion of theatre programs. Additional emphasis placed on management theory and style. Fall.

TPA 4602 CAH-THEA 3(3,0) Advanced Stage Management: PR: B.F.A. Stage Management major, C (2.0) or better required in TPA 3601. Skills necessary for stage managers in contemporary entertainment. Fall.

TPA 4940 CAH-THEA 6(0,40) Technical Theatre/Design Internship: PR: Restricted to B.F.A. Technical Theatre/design and Stage Management majors. The internship is subject to Departmental approval. Off-campus internship programs provide opportunity for practical work in professional theatre. Contact the Departmental office for specific requirements. Occasional.

TPA 5042C CAH-THEA 3(3,0) Costume Design Studio: PR: Admission into the graduate program, TPA 3043C, TPA 3044C, or C.I. Project oriented course in the advance study of Costume Design. Occasional.

TPA 5062C CAH-THEA 3(2,2) Scene Design Studio: PR: Graduate status or C.I. Advanced work in the conceptualization and communication of scenic designs for the theatre. Spring.

TPA 5081 CAH-THEA 3(3,0) Design Concepts for Youth Theatre: PR: Admission to MFA graduate program or C.I. A study of design elements (lighting, costume, set) as they apply to youth theatre. Odd Spring.

TPA 5258C CAH-THEA 3(2,2) AutoCad-2D for Theatre: PR: Admission into the MFA Design Program. Two-Dimensional computer drafting and editing techniques applicable to theatre design. Occasional.

TPA 5299C CAH-THEA 3(2,2) AutoCad-3D for Theatre: PR: Admission into the graduate program and TPA 5258C. Three-dimensional computer drafting and editing techniques applicable for theatre design. Occasional.

TPA 5405 CAH-THEA 3(3,0) Theatre Management for Non-Majors: PR: THE 2020 or THE 2000, graduate status, or C.I. 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. Fall.

TPA 5885C CAH-THEA 2(2,2) Puppetry: PR: Admission to MFA graduate program or C.I. Puppetry as an art form in design and performance. Odd Spring.

TPA 5946C CAH-THEA 1(0,20) Design Practicum I: PR: Admission into the MFA Design Program. Practical Experience as a member of the production team as a prop master or assistant scenic, costume, lighting, or sound designer. Occasional.

TPA 5949C CAH-THEA 1(0,20) Design Practicum II: PR: Admission into the graduate program and TPA 5946C or C.I. Advanced work in the practical application of Properties and/or Design for the Theatre. Occasional.

TPP 2101 CAH-THEA 3(3,0) Fundamentals of Acting: PR: B.A. Theatre Major, and C (2.0) or better required in THE 2020 or THE 2000. Development of imagination, self-awareness and the ability to execute basic stage tasks. Fall, Spring.

TPP 2110C CAH-THEA 3(2,2) Acting I - Introduction: PR: B.F.A. Theatre major, C (2.0) or better required in THE 2020 or THE 2000. Development of imagination, self-awareness, and the ability to execute basic stage tasks. Fall, Spring.

TPP 2170C CAH-THEA 3(2,2) Acting II - Fundamentals: PR: TPP 2110C, DAA 2200C, and THE 2304 and (THE 2020 or THE 2000) and (TPP 2710C or MUT 1004) and BFA Theatre Performance/Musical Theatre major. Fundamental techniques to acting, with emphasis on characterization and character development. Fall, Spring.

TPP 2185 CAH-THEA 3(3,0) Acting for Non-majors: Basic introduction to the fundamentals of acting with emphasis upon the development of imagination, self-awareness, sense, memory, improvisation, and the ability to execute basic stage tasks. Fall, Spring.

TPP 2190 CAH-THEA 1(0,20) Theatre Production/Performance I: PR: Not restricted to Theatre majors but requires departmental consent. Participation in UCF Theatre Productions. Required of all B.F.A. theatre performance majors. Fall, Spring. M&S fee: $15.00
UCF Courses and Descriptions

TPP 2260 CAH-FILM 3(3,0) Acting for Film: PR: Film Majors. An introduction to acting for the camera. Occasional.


TPP 3103 CAH-THEA 3(3,0) Intermediate Acting: PR: B.A. Theatre major and C (2.0) or better required in TPP 2101. Practice and execution of scene work, monologue work, and exercises. Occasional.

TPP 3172C CAH-THEA 3(2,2) Acting III - Building the Character: PR: Grade of C (2.0) or better required in TPP 2170C. Reinforcement of acting techniques begun in Acting II, with emphasis on characterization and character development. Spring.

TPP 3197 CAH-THEA 3(0,30) Summer Theatre/Performance: PR: Open to non-Theatre majors with departmental consent. Production assignments and responsibilities during the rehearsals/performances of play departments produced on the UCF mainstage. May be repeated for credit. Occasional.

TPP 3223 CAH-THEA 3(3,0) Theatre Careers for Performance: PR: B.F.A. Theatre major, Junior standing. Exploration and assimilation of successful marketing techniques needed to secure employment in Theatre or related segments of the entertainment industry. Spring.

TPP 3250 CAH-THEA 3(3,0) Musical Theatre Acting Performance I: PR: B.F.A. Musical Theatre major, and C (2.0) or better required in TPP 2110C. Practical acting techniques with solo musical theatre repertoire. Fall.

TPP 3252 CAH-THEA 3(3,0) Musical Theatre Acting Performance II: PR: B.F.A. Musical Theatre major, and C (2.0) or better required in TPP 3250. Practical acting technique as it applies to musical theatre scene study. Spring.


TPP 3258 CAH-THEA 2(2,2) Musical Theatre Voice II: PR: B.F.A. Musical Theatre major, and C (2.0) or better required in TPP 3257. Artistry of singing including function of music and lyrics, and problems in song interpretation utilizing musical theatre repertoire. Fall.

TPP 3310C CAH-THEA 3(2,2) Directing for Theatre I: PR: Theatre majors, Junior Standing, and C (2.0) or better required in THE 3312. Principles and techniques of play direction to include script selection, directorial analysis, casting, composition/punctuation, blocking, tempo, and rehearsal planning. Fall, Spring.

TPP 3510C CAH-THEA 2(2,1) Movement for the Actor: PR: DAA 2200C, DAA 2201C, TPP 2110C, TPP 2170C, BFA Performance Major. Active physical exploration of relaxation, release, and strengthening exercises designed to help the actor develop a more expressive body. Fall.

TPP 3512C CAH-THEA 2(2,1) Stage Combat: PR: Grade of C (2.0) or better required in TPP 4511C. Stage combat with emphasis on hand-to-hand combat. Spring.

TPP 3513C CAH-THEA 2(2,1) Movement for the Actor II: PR: C (2.0) or better required in TPP 3510C. Reinforcement of techniques and practices found in Movement for the Actor I. Occasional.

TPP 3711C CAH-THEA 2(2,1) Voice Production II: PR: Grade of C (2.0) or better required in TPP 2710C. Reinforcement of the awareness introduced in Voice I, focusing on a physical approach to acting tools. Spring.

TPP 3712C CAH-THEA 2(2,1) Voice Production III: PR: Grade of C (2.0) or better required in TPP 3712C. Continuation of Voice Production II; emphasis on study of Shakespeare and heightened language. Fall.

TPP 3730C CAH-THEA 2(2,1) Voice Production IV: PR: Grade of C (2.0) or better required in TPP 3712C. Analysis of dialects and regionalisms, reinforcing the study of phonetics, placement, and vocal apparatus. Fall.

TPP 3952 CAH-THEA 3(0,30) Studio Performance: PR: Junior standing or C.I. Not restricted to Theatre majors but requires Departmental consent. Studio performance provides the specific application of the theatre artist’s training to full scale theatre productions. May be repeated for credit. Occasional.

TPP 4140C CAH-THEA 3(2,2) Acting IV - Creating the Role: PR: Grade of C (2.0) or better required in TPP 3712C. Continued exploration and application of acting technique through scene study. Fall.

TPP 4142C CAH-THEA 3(2,2) Acting V - Verse: PR: Grade of C (2.0) or better required in TPP 4140C. Verse drama with particular emphasis placed on scansion and verse in the plays of William Shakespeare. Spring.

TPP 4143C CAH-THEA 3(2,2) Acting Styles: PR: Grade of C (2.0) or better required in TPP 3103 and TPP 4140C. An advanced and comprehensive view of acting styles. Occasional.

TPP 4193 CAH-THEA 1(0,20) Theatre Production/Performance IV: PR: Not restricted to Theatre majors but requires Departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. theatre performance majors. Fall, Spring. M&S fee: $15.00

TPP 4221 CAH-THEA 3(3,0) Auditioning: PR: Junior Standing, and C (2.0) or better required in TPP 3103 and TPP 4140C. Selecting monologues, auditioning techniques and cold readings. Occasional.

TPP 4243C CAH-THEA 2(2,2) Circus Arts: PR: Theatre major; C (2.0) in TPP 2101, and THE 2020. Circus history and introduction to a wide range of circus skills. Occasional.


TPP 4265C CAH-THEA 3(3,2) Acting VI - Acting for TV/Film: PR: B.F.A. Theatre Performance major or B.F.A. Musical Theatre major, and C (2.0) or better required in TPP 3522 or TPP 4142C. Application of previous acting training to the TV/Film medium. Fall.

TPP 4268 CAH-THEA 3(3,2) Acting VII - Advanced Acting For TV/Film: PR: Grade of C (2.0) or better required in TPP 4265C. A practical, detailed, and structured approach to acting for the camera by working on a TV/Film project. Spring.


TPP 4271C CAH-THEA 2(2,2) Music Theatre Voice VI: PR: TPP 4270C and Theatre major or departmental consent. Continuation of advanced diagnosis and development of the singing voice and its application to music theatre performance. Fall.

TPP 4311 CAH-THEA 3(2,2) Advanced Directing for Theatre: PR: A grade in TPP 3310C. Practical experience directing class scenes and projects. Spring.

TPP 45310 CAH-THEA 2(2,1) Period Movement: PR: Grade of C (2.0) or better required in TPP 3172C. Continuation of Movement/Dance work. Emphasis given to period styles. Fall.


TPP 4940L CAH-THEA 6(0,VAR) Theatre Internship: PR: Restricted to B.F.A. Theatre majors, and Junior Standing and subject to Departmental approval. Off-campus internship programs in professional theatre. Required of all B.F.A. theatre majors. Fall, Spring.

TPP 5125C CAH-THEA 2(2,2) Improvisation Studio: PR: Acting for Youth Theatre. A study of spontaneous dramatic play and theatre exercises designed to develop self-discipline, creative freedom and resources for the stage and classroom. Odd Fall.

TPP 5156C CAH-THEA 3(2,2) Acting Studio I: PR: Admission to MFA Performance Program. An advanced scene study course with emphasis on scene analysis and character development and application of acting techniques in modern contemporary American plays. Fall.

TPP 5157C CAH-THEA 3(2,2) Acting Studio II: PR: TPP 5156C or C.I. An advanced scene study course applying acting methodologies to the works of modern (1850-) European playwrights with emphasis on the works of Ibsen/Chekhov/Shaw. Spring.
TPP 5273 CAH-THEA 3(3,0)  
Musical Theatre Acting I: PR: Admission to MFA Musical Theatre Majors. 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. Occasional.

TPP 5289C CAH-THEA 2(2,2)  
Acting for Young Audiences: PR: Admission to MFA graduate program or C.I. A guided investigation of the principles and techniques of acting for young audiences. Even Fall.

TPP 5386 CAH-THEA 3(3,0)  
Directing for Young Audiences: PR: THE 5910 and Dramatic Literature for Children. Study of the principles, procedures, and practices of stage direction as it applies to theatre for young audiences. Odd Spring.

TPP 5515 CAH-THEA 2(2,0)  
Movement Studio I: PR: Admission to MFA Performance Program. 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. Fall.

TPP 5516C CAH-THEA 2(2,1)  
Movement Studio II: PR: TPP 5515 or C.I. Principles and methods of movement for the stage focusing on gaining specific knowledge and skills in period styles of movement and basic unarmed combat. Spring.

TPP 5554C CAH-THEA 2(2,4)  
Musical Theatre Dance I: PR: MFA Musical Theatre Majors. Advanced dance study with particular emphasis on the development of principles of alignment, coordination, isolation, and sequencing. Fall.

TPP 5555C CAH-THEA 2(2,4)  
Musical Theatre Dance II: PR: TPP 5554C. Advanced dance study with particular emphasis on the development and expression of characterization in dance. Spring.

TPP 5715C CAH-THEA 2(2,1)  
Stage Voice I: PR: Admission to MFA performance program. An introduction/review class examining the fundamentals of speaking on stage: the correct production of sound, breathing, relaxation of physical tension, and articulation. Fall.

TPP 5716C CAH-THEA 2(2,1)  
Stage Voice II: PR: Admission to the MFA Performance Program and TPP 5715C or C.I. Continuation of Graduate Voice Production I, studying Skinner’s narrow transcription with consonants, review of all Lekladder work, and introduction to the work of Arthur Lessac. Spring.

TPP 5754 CAH-THEA 2(2,0)  
Musical Theatre Voice I: PR: Admission to MFA Musical Theatre Program. 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. Fall.

TPP 5935C CAH-THEA 2(2,2)  
Contemporary Practices in Young Theatre: PR: Admission to MFA graduate program or C.I. Investigation of a particular subject in youth theatre. May be repeated for credit 4 times. Odd Spring.

TSL 4080 ED-TLP 3(3,0)  
Theory and Practice of Teaching ESOL Students in Schools: PR: Junior standing or C.I. Focuses on methods of teaching English to Speakers of Other Languages (ESOL). ESOL curriculum and materials, cross-cultural understanding, applied linguistics in second language teaching, and test and evaluation of ESOL. Fall, Spring.

TSL 4141 CAH-LANG 3(3,0)  

TSL 5143 CAH-LANG 3(3,0)  
ESOL Strategies: PR: Graduate status or senior standing or C.I. 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. Occasional.

TSL 5245 CAH-LANG 3(3,0)  
Computers and Technology for ESOL: PR: Graduate standing or C.I. Emphasizes research in computer assisted language learning, as well as design and evaluation of software and websites for learning English as a second language. Occasional.

TSL 5345 ED-TLP 3(3,0)  
Methods of ESOL Teaching: This course is designed to develop understanding, knowledge and skills of the current methods used in the teaching of ESOL. Fall, Spring.

TSL 5373 ED-TLP 3(3,0)  
Teaching Language Minority Students in K-12 Classrooms: PR: Admission to College of Education Master of Arts Program or C.I. Teaching K-12 limited English proficient (LEP) students. Florida standards regarding cross-cultural communication, ESOL curriculum, and materials, ESOL methodoloby, testing and evaluation of ESOL students, applied linguistics. Fall, Spring.

TSL 5376 CAH-LANG 3(3,0)  
Reading and writing in a second language: PR: Graduate standing or C.I. Theoretical and pedagogical approaches to ESOL reading and writing. Occasional.

TSL 5525 ED-TLP 3(3,0)  
ESOL Cultural Diversity: This course is designed to identify major cultural groups represented by the LEP population in Florida schools and to understand their special needs. Occasional.

TSL 5940 CAH-LANG 3(3,0)  
Issues in TEFL: PR: Graduate status or senior standing or C.I. Address issues specifically related to TEFL, such as materials, adaptation, teaching in multi-classroom settings, learning styles, cultural issues, and curriculum syllabus design. Spring.

TTE 4004 ECS-CEE 4(4,0)  

TTE 4601C ECS-CEE 3(2,2)  
Urban Systems Design: PR: TTE 4004. Project course on design of transportation and urban systems using engineering design methodologies. Spring. M&S fee: $15.00

TTE 5024 ECS-CEE 3(3,0)  
Traffic Engineering: PR: TTE 4004. Study of operator and vehicle characteristics, and design for street capacity, signals, signs, and markings. Occasional.

TTE 5700 ECS-CEE 3(3,0)  

TTE 5805 ECS-CEE 3(3,0)  

TTE 5835 ECS-CEE 3(3,0)  
Pavement Design: PR: CEG 4101C. Pavement types, wheel loads, stresses in pavement components; design factors such as traffic configurations, environment, and economy. Occasional.

VIC 3001 COS-R/TV 3(3,0)  

WOH 2012 CAH-HIST 3(3,0)  
World Civilization I: A topical approach to the study of the rise and decline of world civilizations from the first attempts to the great civilizations of medieval times. Fall, Spring.

WOH 2012H CAH-HIST 3(3,0)  
World Civilization I - Honors: PR: Permission of Honors. The rise and decline of world civilizations from antiquity to the great civilizations of medieval times. Honors content. Occasional.

WOH 2022 CAH-HIST 3(3,0)  
World Civilization II: PR: Permission of Honors. Study of the rise and development of the Western and non-Western spheres of civilization. Fall, Spring.

WOH 2022H CAH-HIST 3(3,0)  
World Civilization II - Honors: PR: Permission of Honors. Study of the rise and development of the Western and non-Western spheres of civilization. Honors content. Occasional.

WST 3015 CAH-ENG 3(3,0)  
Introduction to Women’s Studies: PR: ENC 1102 or C.I. Interdisciplinary course introducing students to key issues and problems regarding women and gender relations in past and present societies. Fall, Spring.

WST 3460 CAH-WOM 3(3,0)  
Womannist Studies: PR: ENC 1102 or C.I. Interdisciplinary study of issues, perspectives, and scholarship by and about women of color. Occasional.

WST 3460H CAH-WOM 3(3,0)  

WST 3500 CAH-WOM 3(3,0)  
Gender Issues and Community Activism: PR: WST 3015 or C.I. Feminist perspectives applied to current community issues. Interdisciplinary analysis through service learning and field research. Issues will vary. May be repeatable for credit. Occasional.

WST 3561 CAH-WOM 3(3,0)  
Third Wave Feminisms: PR: WST 3015. Third wave feminist theories and practices with an activist focus. Even Spring.

WST 4002 CAH-WOM 1(1,0)  
Researching Women and Gender: PR: WST 3015 or C.I. Introduces students to scholars and research in a variety of areas pertaining to the study of women and gender relations. Occasional.
### UCF Courses and Descriptions

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<th>Course Code</th>
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<tr>
<td>WST 5347</td>
<td>CAH-WOM</td>
<td>3(3,0)</td>
<td>Research Seminar in Gender Studies: PR: Graduate status or senior standing, or C.I. Research seminar exploring relationships among feminist theorizing, research, and social change: the development of gender studies programs and their relationships to other academic disciplines. Occasional.</td>
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<tr>
<td>ZOO 3701C</td>
<td>BCBS-M&amp;M</td>
<td>3(1,4)</td>
<td>Human Gross Anatomy &amp; Dissection Techniques: PR: ZOO 3733C. Dissection techniques of the human body to teach students the skills required for the preparation of three dimensional materials (specimens). The primary student population should be junior/senior pre health professional applicants preparing for the basic medical sciences of professional schools. Spring.</td>
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<td>ZOO 3733H</td>
<td>BCBS-M&amp;M</td>
<td>4(3,3)</td>
<td>Honors Human Anatomy: PR: BSC 2010C or equivalent and Consent of Honors. Basic and functional anatomy in clinically oriented way to study systems within the human body. The lab component of this honors course provides enrichment and an opportunity to view cadaver specimens. With Honors Consent. Spring.</td>
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<td>ZOO 3744</td>
<td>BCBS-M&amp;M</td>
<td>3(3,0)</td>
<td>Neurobiology: PR: BSC 2010C. Biological principles governing the physiology of the nervous system including electrical properties, chemical signaling, cellular composition, development, injury and regeneration. Fall. Spring. M&amp;S fee: $15.00.</td>
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<tbody>
<tr>
<td>ZOO 4513</td>
<td>COS-BIOL</td>
<td>3(3,0)</td>
<td>Animal Behavior: PR: PCB 3044. Study of the current ideas in animal behavior, including the mechanism of behavior and evolutionary explanations. Odd Fall.</td>
</tr>
</tbody>
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<th>Credits</th>
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<tbody>
<tr>
<td>ZOO 4704C</td>
<td>BCBS-M&amp;M</td>
<td>4(3,1)</td>
<td>Clinical Neuroanatomy and Neuroscience: PR: ZOO 3733C with a B (3.0) or better. Basic and applied neuroscience with attention to normal function and pathologic states of the nervous system relevant to practice of general medicine and/or neuroscience. Fall.</td>
</tr>
</tbody>
</table>

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<tbody>
<tr>
<td>ZOO 5463C</td>
<td>COS-BIOL</td>
<td>4(2,6)</td>
<td>Herpetology: PR: 6 hours of zoology, and graduate status or senior standing, or C.I. Introduction to the biology of the amphibians and reptiles, their classification, evolution, and life histories. Occasional. M&amp;S fee: $15.00.</td>
</tr>
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<th>Course Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ZOO 5475C</td>
<td>COS-BIOL</td>
<td>4(2,6)</td>
<td>Ornithology: PR: 5 hours of zoology, and graduate status or senior standing, or C.I. Introduction to the biology of birds, their classification, evolution, and life histories. Occasional. M&amp;S fee: $15.00.</td>
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<tr>
<th>Course Code</th>
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</thead>
<tbody>
<tr>
<td>ZOO 5517</td>
<td>COS-BIOL</td>
<td>1(1,0)</td>
<td>Methods for Studying Animal Behavior in Zoo Setting: PR: an animal behavior course, graduate status or senior standing, or C.I. Research techniques used to study animals in captivity. Occasional.</td>
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<tr>
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</thead>
<tbody>
<tr>
<td>ZOO 5520</td>
<td>COS-BIOL</td>
<td>3(3,0)</td>
<td>Behavioral Ecology: PR: graduate status or senior standing, and C.I. Introduction to the field of Behavioral Ecology, which studies evolution of animal behavior in the wild. Occasional.</td>
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</tbody>
</table>

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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ZOO 5815</td>
<td>COS-BIOL</td>
<td>4(4,0)</td>
<td>Zoogeography: PR: 8 hours of zoology, and graduate status or senior standing or C.I. Principles and concepts concerning regional patterns of animal distributions of the world, both past and present. Occasional. M&amp;S fee: $15.00.</td>
</tr>
</tbody>
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<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>ZOO 5881C</td>
<td>COS-BIOL</td>
<td>4(3,4)</td>
<td>Fisheries Management: PR: ZOO 4312C, graduate status or senior standing, or C.I. Fisheries management of freshwater environments to include identification, sampling methods, farming and hatchery operations, propagation and population estimates. Occasional. M&amp;S fee: $20.00.</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>ZOO 5891</td>
<td>COS-BIOL</td>
<td>1(1,0)</td>
<td>Applied Conservation Biology: PR: Graduate status or senior standing or C.I. Examination of issues surrounding care, maintenance and tracking animals in small populations. Occasional.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
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<tbody>
<tr>
<td>ZOO 5893L</td>
<td>COS-BIOL</td>
<td>1(0,3)</td>
<td>Reproductive Management in Zoological Environments: PR: PCB 4732, graduate status or senior standing, or C.I. Laboratory techniques used to improve reproductive success of animals in a zoological environment. Occasional.</td>
</tr>
</tbody>
</table>
The date indicates the first year of employment at the University of Central Florida.


ABDEL-ATEY, MOHAMED, Associate Professor of Engineering (1995), B.S.C.E., M.S.C.E., Ph.D. (University of California at Davis)

ABEL, EILEEN M., Associate Professor of Social Work (1978), A.B., M.S.W. Ph.D. (Case Western Reserve University)

ABRAHAM, CHARLIE, Associate Professor of Art (1996), B.F.A., M.F.A. (University of Mississippi)

ACIERNO, LOUIS J., Professor of Health Sciences (Cardiopulmonary Science) (1979), B.S., M.D. (Georgetown University)

ACKLEY, TIMOTHY, Visiting Assistant Professor of Education (2002), B.G.S., M.A.T., Ph.D. (University of Florida)

ADAMS, CAROLE, Associate Professor of History (1993), B.A., M.A., Ph.D. (Harvard University)

ADAMS, KENNETH, Associate Professor of Public Affairs (2003), Ph.D (State University of New York at Albany)

AHMAD, IBRAHIM A., Professor of Management (1990), B.S., M.B.A., D.B.A. (University of Virginia)

AJAYI, RICHARD A., Associate Professor of Finance (1996), B.Sc., M.B.A., Ph.D. (Temple University)

AL-DEEK, HAITHAM, Professor of Engineering (1992), B.E.C., M.S., Ph.D. (University of California at Berkeley), P.E. (Florida)

ALBERS, JUNIE, Instructor of Education (2001), B.A., M.A., Ph.D. (Florida State University)

APPLEN, J.D., Associate Professor of Finance (1996), B.Sc., M.B.A., Ph.D. (University of South Florida)

ALCANTARA, R., Associate Professor of Education (2002), B.S., M.Ed., Ph.D. (Florida State University)

ALDEEK, HAITHAM, Assistant Professor of Administrative Services (2003), B.A., M.S., Ph.D. (University of Central Florida)

ALDEN, CHARLES, Associate Professor of Music (1997), B.M., M.A. (Appalachian State University)


ALDERS, JUNIE, Instructor of Education (2001), B.A., M.A., Ph.D. (Florida State University)

ALEXANDER, ALEXANDER, Associate Professor of History (1993), B.A., M.A., Ph.D. (Florida International University)

ALEXANDER, JACOB, Associate Professor of Business Administration (1993), B.A., M.A., Ph.D. (University of Central Florida)

ALFREY, ROBERT E., Associate Professor of Philosophy (2003), B.A., M.A., Ph.D. (University of Central Florida)

ALKHAFIF, HAMAD, Assistant Professor of Finance (2001), B.S., M.B.A., Ph.D. (Mississippi State University)

ALLEN, FRANK R., B.A., M.B.A. (University of Central Florida)

ALRUTZ, MEGAN, Assistant Professor of Theatre (2004), B.F.A., Ph.D. (Arizona State University)

ALSABAH, Fadel, Assistant Professor of History (2001), B.A., M.A., Ph.D. (University of California, Los Angeles)

ALVAREZ, RODNEY, Assistant Professor of History (2000), B.A., M.A., Ph.D. (University of California, Los Angeles)

AMBOSE, MAUREEN L., Professor of Management (1999), B.A.A.M., Ph.D. (University of Illinois at Urbana-Champaign)

AN, LINAN, Assistant Professor of Engineering (2001), Ph.D. (Lehigh University)

ANDREWS, LARRY G., Professor of Mathematics and Electrical and Computer Engineering (1973), B.S., M.S., Ph.D. (Michigan State University)

ANDREWS, SABRINA, Director and University Data Administrator, Institutional Research (2006), B.S., M.S. (Florida State University)

ANGELOPoulos, THEODOR, Associate Professor of Education (1998), B.S., M.S., Ph.D. (University of Pittsburgh)

ANGLEY, PATRICIA, Instructor of English (1998), B.A., M.A., Ph.D. (University of Hawaii)

ANTHONY, JOBY M., Associate Professor of Mathematics (1970), B.S., M.A.M., Ph.D. (North Carolina State University)

ANTON, WILMA, Assistant Professor of Economics (2001), B.S., M.S., ABD (University of Illinois)

APPLEGATE, BRANDON, Associate Professor of Criminal Justice (1996), Ph.D. (University of Cincinnati)

APPLEN, J.D., Associate Professor of English (1997), B.S., M.F.A., Ph.D. (University of Arizona)

ARK, PAMELA, Assistant Professor (2004), RN, PhD (University of Tennessee - Memphis)

ARMACOST, ROBERT L., Director, University Analysis and Planning Support, and Associate Professor of Engineering (1991), B.S., M.S.O.R., D.Sc. (George Washington University)

ARMSTRONG, JOHN H., Associate Professor of Education (1970), B.S., M.S., Ed.D. (Oklahoma State University)

ARMSTRONG, LEE H., Professor of Mathematics (1968), B.A., M.S., Ph.D. (Florida State University)


ASHLEY, ROBERT A., Assistant Professor of Hospitality Management (1984), B.S., M.S. (Florida International University, C.E.C., C.C.E.)

ATKINSON, STANLEY M., Associate Professor of Finance (1981), B.B.A. M.B.A., D.B.A. (Mississippi State University)

BAGLEY, GEORGE M., Associate Director and Associate Professor of Communication (1994), B.A., M.A. (University of Utah)

BAILEY, CHARLES D., Professor of Accounting (1991), B.B.A., M.B.A., M.P.A., Ph.D. (Georgia State University)


BAKER, BARRY B., Director, University Libraries (1997), B.A., M.L.S. (Louisiana State University)


BALADO, CARL, Associate Professor of Education (1987), B.S., M.S., Ed.D. (Florida Atlantic University)

BALLANTYNE, JOHN, Associate Professor of Chemistry/Forensic Science (1998), B.S., M.S., Ph.D. (State University of New York at Stony Brook)

BALTUNIS, CATHERINE, Visiting Instructor of Communication (2003), B.A., M.A. (University of Central Florida)

BANDY, DALTON D., Chairholder, C.G. Avery Professorship, and Professor of Accounting (1985), B.S., M.B.A., Ph.D. (University of New York at Albany)

BARajas, Hector ssg, Administration Sergeant (1995), B.S., M.B.A., Ph.D. (University of Central Florida)

BARRINGTON, BRUCE, Associate Professor of Management (1995), B.S., M.B.A., Ph.D. (University of Missouri-Columbia)

BARSCH, KARL-HENRICH, Associate Professor of Modern Languages and Literatures (1977), B.A., M.A., Ph.D. (University of Colorado)

BARTKIVIUS, JOCELYN, Associate Professor of English (1994), B.A., M.A., M.F.A., Ph.D. (University of Iowa)

BASCO, BUENAVENTURA B., Assistant University Librarian (1998), B.S.E., M.B.A., M.A.L.I.S. (University of South Florida)

BASSIOUNI, MOSTAFA, Professor of Computer Science (1981), B.S., M.S., Ph.D. (Pennsylvania State University)

BAST, CAROL M., Associate Professor of Legal Studies (1992), B.A., M.A., J.D. (New York Law School)

BATARSEH, ISSA E., Professor of Engineering (1991), B.S., M.S., Ph.D. (University of Illinois at Chicago), P.E. (Florida)

BAUER, CHRISTIAN S., JR, Program Director and Professor of Engineering (1970), B.S.I.E., M.S.E., Ph.D. (University of Florida), P.E. (Florida)

BAUMBACH, DONNA J., Professor of Education (1978), B.S., M.S., Ed.D. (Indiana University)

BAYER, CYNTHIA A., Research Assistant, Professor (1996), B.S., Ph.D. (Syracuse University)

BECKER, DEBRA, Visiting Assistant Professor of Education (2001), B.A., M.S.Ed., Ed.D. (University of Central Florida)

BECKER, KYLIE, Visiting Assistant Professor of Theatre (2004), B.F.A., M.F.A. (University of California)

BECKER, LYNNE, Instructor of Management (1996), B.S., M.B.A. (University of Central Florida)

BEILE, PENNY M., Head Curriculum Materials Center and Assistant University Librarian (1998), B.A., M.Ed., M.S.L.S. (University of Kentucky)

BEILER, ROSALIND J., Associate Professor of History and Graduate Program Coordinator (1994), B.A., Ph.D. (University of Pennsylvania)

BELFIELD, KEVIN D., Associate Professor of Chemistry (1998), B.S., Ph.D. (Syracuse University)

BELL, JOHN, Associate Professor of Theatre and Coordinator of Music Theatre (2001), B.M., M.F.A. (San Diego State University)

BELL, KATHLEEN, Associate Professor of English (1991), B.S., M.Ed., Ph.D. (Arizona State University)

BENCIE, JENNIFER, Instructor of Health Services Administration (1999), B.S. (University of Florida)

413
<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
<th>University/Institution</th>
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<tbody>
<tr>
<td>BLEDSOE, CAROL</td>
<td>Professor of Engineering</td>
<td>Virginia Polytechnic Institute</td>
</tr>
<tr>
<td>BLANEY, KATHY</td>
<td>Assistant Professor of Psychology</td>
<td>University of Florida</td>
</tr>
<tr>
<td>BERTETTA, GERALD S.</td>
<td>Instructor of Physical Therapy</td>
<td>University of Florida</td>
</tr>
<tr>
<td>BETZ, MICHELLE</td>
<td>Lecturer of Communication</td>
<td>University of Florida</td>
</tr>
<tr>
<td>BIGGERSTAFF, JOHN P.</td>
<td>Professor of Engineering</td>
<td>Oklahoma</td>
</tr>
<tr>
<td>BLACKWELL, CHRISTOPHER</td>
<td>Visiting Instructor</td>
<td>University of Illinois</td>
</tr>
<tr>
<td>BIRMAH, KAREN L.</td>
<td>Chair and Professor of Education</td>
<td>Carleton University</td>
</tr>
<tr>
<td>BHATTACHARYA, ANIKET</td>
<td>Assistant Professor of Physics</td>
<td>University of Maryland</td>
</tr>
<tr>
<td>BIGGERSR, JOHN P.</td>
<td>Visiting Instructor of Molecular Biology and Microbiology</td>
<td>University of New York at Buffalo</td>
</tr>
<tr>
<td>BISHOP, PATRICIA J.</td>
<td>Director of Graduate Studies and Professor of Education</td>
<td>University of Illinois</td>
</tr>
<tr>
<td>BOGGLE, STEPHEN F.</td>
<td>Professor of Finance</td>
<td>University of North Texas</td>
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<td>BOOTE, DAVID N.</td>
<td>Assistant Professor of Education</td>
<td>Florida State University</td>
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<td>BOREMANN, GLENN D.</td>
<td>Professor of Engineering</td>
<td>Arizona State University</td>
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<td>BORJESSON, WIVICA L.</td>
<td>Visiting Instructor of Psychology</td>
<td>University of North Texas</td>
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<td>BORRIECCI, RICHARD</td>
<td>Instructor of Marketing</td>
<td>University of North Texas</td>
</tr>
<tr>
<td>BOSE, SUBIR K.</td>
<td>Professor of Physics</td>
<td>Ohio University</td>
</tr>
<tr>
<td>BOTTOF, TIMOTHY J.</td>
<td>Instructor Librarian</td>
<td>University of Pittsburgh</td>
</tr>
<tr>
<td>BOUKORZA, LAURENT</td>
<td>Associate Professor of Music</td>
<td>University of Paris (Paris Conservatory)</td>
</tr>
<tr>
<td>BOWDON, MELODY A.</td>
<td>Assistant Professor of English</td>
<td>University of North Texas</td>
</tr>
<tr>
<td>BOWERS, CLINT</td>
<td>Assistant</td>
<td>University of North Texas</td>
</tr>
<tr>
<td>DEAN, COLLEGE OF ARTS &amp; SCIENCES, AND PROFESSOR OF PSYCHOLOGY</td>
<td>(Purdue University)</td>
<td></td>
</tr>
<tr>
<td>BLUE, CARROLL</td>
<td>Professor of Film</td>
<td>University of California, Los Angeles</td>
</tr>
<tr>
<td>BLUM, RICHARD A.</td>
<td>Professor of Engineering</td>
<td>Florida State University</td>
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<td>BOBEK, DONNA D.</td>
<td>Assistant Professor of Accounting</td>
<td>University of Florida</td>
</tr>
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<td>BOYDE, BELINDA</td>
<td>Associate Professor of Theatre</td>
<td>University of Florida</td>
</tr>
<tr>
<td>BOWIE, DAVID F.</td>
<td>Assistant Professor of English</td>
<td>University of Pennsylvania</td>
</tr>
<tr>
<td>BOYDE, JUDITH P.</td>
<td>Special Projects</td>
<td>University of California</td>
</tr>
<tr>
<td>BOYD, WILLIAM C.</td>
<td>Professor of Education</td>
<td>University of Virginia</td>
</tr>
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<td>BRAUN, BRADLEY M.</td>
<td>Associate Professor of Economics</td>
<td>University of North Texas</td>
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<td>BREITNER, DEBORAH</td>
<td>Associate Professor of Physics</td>
<td>University of North Texas</td>
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<tr>
<td>BREWER, ERNEST A.</td>
<td>Visiting Instructor of Education</td>
<td>University of North Texas</td>
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<td>BREWER, THOMAS</td>
<td>Associate Professor of Education</td>
<td>Florida State University</td>
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<tr>
<td>BUSHY, ANGELA A.</td>
<td>Eminent Chair of and Professor of Nursing</td>
<td>University of North Texas</td>
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<tr>
<td>BUTCHER, LONNY J.</td>
<td>Visiting Instructor of Management</td>
<td>University of North Texas</td>
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<tr>
<td>BUTLER, JOHN F.</td>
<td>Associate Professor of Communication</td>
<td>University of North Texas</td>
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<tr>
<td>BUTLER, RENEE</td>
<td>Assistant Professor of Engineering</td>
<td>Georgia Tech</td>
</tr>
<tr>
<td>BYERS, JACQUELINE</td>
<td>Associate Professor of Nursing</td>
<td>University of North Texas</td>
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<tr>
<td>BYRD, ANTHONY K.</td>
<td>Chair and Associate Professor of Finance</td>
<td>University of North Texas</td>
</tr>
<tr>
<td>CASMIRZ-PAZ, LYNN A.</td>
<td>Assistant Professor of Philosophy</td>
<td>University of North Texas</td>
</tr>
<tr>
<td>CALLAHAN, JUDITH S.</td>
<td>Assistant Professor of Management</td>
<td>University of North Texas</td>
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<tr>
<td>CALLARMAN, WILLIAM G.</td>
<td>Associate Professor of Management</td>
<td>University of North Texas</td>
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<tr>
<td>CAMPO, DONNA J.</td>
<td>Associate Professor of Education</td>
<td>University of North Texas</td>
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<tr>
<td>CAMPBELL, ANNA</td>
<td>Assistant Professor of Sociology</td>
<td>University of North Texas</td>
</tr>
<tr>
<td>CAMPBELL, JAMES</td>
<td>Associate Professor of English</td>
<td>University of North Texas</td>
</tr>
<tr>
<td>CAPMIGLIA, ANDRES</td>
<td>Associate Professor of Chemistry</td>
<td>University of North Texas</td>
</tr>
<tr>
<td>CARON, RICHARD M.</td>
<td>Associate Professor of Mathematics</td>
<td>University of North Texas</td>
</tr>
<tr>
<td>CARRERER, JOHN A.</td>
<td>Assistant Professor of English</td>
<td>University of North Texas</td>
</tr>
<tr>
<td>CARTA, ROBERTO</td>
<td>Visiting Assistant Professor</td>
<td>University of North Texas</td>
</tr>
<tr>
<td>CASADO, MONTSERRAT</td>
<td>Assistant Professor of Education</td>
<td>University of North Texas</td>
</tr>
<tr>
<td>CASE, LYN</td>
<td>Assistant University Librarian</td>
<td>University of North Texas</td>
</tr>
<tr>
<td>CASH, MASON</td>
<td>Assistant Professor of Philosophy</td>
<td>University of North Texas</td>
</tr>
</tbody>
</table>
FABIANIC, DAVID A., Professor of Criminal Justice
(1985), B.A., M.S., Ph.D. (University of Iowa)

FALEN, THOMAS J., Program Director/Instructor of Health Information Management and Health Services Administration
(1996), B.S., M.A. (Webster University)

FANG, JIYU, Associate Professor of Engineering
Ph.D. (Southeast University)

FARELLS, PATRICIA, Instructor of History
(1997), B.A., M.A. (University of Central Florida)

FAUTH, JOHN E., Associate Professor of Biology
(2003), Ph.D. (Duke University)

FAVOROV, OLEG V., Associate Professor of Computer Science
(1995), B.S., Ph.D. (University of South Florida)

FEDLER, FREDERIC E., Professor of Communication
(1999), B.S., Ph.D. (University of South Florida)

FEDLER, ROBERT M., Associate Professor of Communication
(1999), B.S., M.A. (Vanderbilt University)

FELDHEIM, MARY ANN, Associate Professor of Public Administration
(1997), B.S.N., M.S.N., Ph.D. (Florida Atlantic University)

FERNALD, LLOYD W., Professor of Management

FERNANDEZ, JOSE B., Associate Dean, College of Arts & Sciences and Pegasus Professor of History and Modern Languages and Literatures
(1981), B.A., M.A., Ph.D. (Florida State University)

FERNANDEZ-VALLE, CRISTINA, Associate Professor of Molecular Biology and Microbiology
(1995), B.S., Ph.D. (University of Miami)

FINE, TERRI S., Associate Professor of Political Science
(1989), B.A., M.A., Ph.D. (University of Connecticut)

FINNOFF, DAVID C., Assistant Professor of Economics
(2001), B.S., Ph.D. (University of Wyoming)

FIORE, STEPHEN M., Research Associate
(1998), B.S., M.S., Ph.D. (University of Pittsburgh)

FISHER, RANDY D., Associate Professor of Psychology
(1971), B.A., Ph.D. (Vanderbilt University)

FISHER, THOMAS, Visiting Instructor of Education
(1998), M.A. (Rollins College)

FISHER, WILLIAM P., Darden Eminent Scholar in Restaurant Management and Professor of Hospitality Management
(2001), B.S., M.B.A., Ph.D. (Cornell University)

FLAGG, JAMES R., Instructor of Legal Studies
(1996), B.B.A., J.D., L.L.M. (Washburn University)

FLAMMIA, MADELYN, Associate Professor of English
(1990), B.A., M.A., Ph.D. (Rutgers University)

FLANERY, FRANCIS GARY, Assistant in Theatre
(1980), B.A., M.A., Ph.D. (University of Wisconsin)

FLITSIVAN, ELENA, Assistant Professor
(2002), Ph.D. (UzSSR Academy of Science)

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<td>RICCI, PETER</td>
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424 UNIVERSITY OF CENTRAL FLORIDA 2006-2007 Undergraduate Catalog

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432
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<table>
<thead>
<tr>
<th>Date</th>
<th>Name and Title</th>
<th>Degree and Title</th>
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</thead>
<tbody>
<tr>
<td>June, 1970</td>
<td>John W. Young, Doctor of Applied Sciences</td>
<td>Charles N. Millican, Doctor of Laws</td>
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<td>March, 1973</td>
<td>Louis C. Murray, Doctor of Public Service</td>
<td>Helen Harris Perlman, Doctor of Humane Letters</td>
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<td>August, 1974</td>
<td>Fred C. Clayton, Doctor of Professional Engineering</td>
<td>Thaddeus Seymour, Doctor of Letters</td>
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<td>August, 1978</td>
<td>Richard F. Livingston, Doctor of Business Administration</td>
<td>Roald Hoffman, Doctor of Science</td>
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<td>December, 1979</td>
<td>Lee R. Scherer, Doctor of Engineering Science</td>
<td>Buell G. Duncan, Jr., Doctor of Commercial Science</td>
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<td></td>
<td>Thelma Vivian Jackson Dudley, Doctor of Humanities</td>
<td>Jesse Stone, Doctor of Humane Letters</td>
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<tr>
<td>December, 1981</td>
<td>Howard Phillips, Doctor of Public Service</td>
<td>Nicolaas Bloembergen, Doctor of Science</td>
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<tr>
<td>April, 1982</td>
<td>Robert J. Whalen, Doctor of Engineering Science</td>
<td>Maxwell C. King, Doctor of Public Service</td>
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<td></td>
<td>Andrew Duda, Jr., Doctor of Agricultural Service</td>
<td>Joe R. Lee, Doctor of Commerical Science</td>
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<tr>
<td>July, 1982</td>
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<td>Trevor Colbourn, Doctor of Humane Letters</td>
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<tr>
<td></td>
<td>John Duda, Doctor of Agricultural Service</td>
<td>Linda W. Chapin, Doctor of Public Service</td>
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<tr>
<td>December, 1982</td>
<td>Mary Jo Davis, Doctor of Public Service</td>
<td>Desmond Tutu, Doctor of Humane Letters</td>
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<td></td>
<td>William E. Davis, Doctor of Public Service</td>
<td>Oscar Arias, Doctor of Humane Letters</td>
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<td>Charles Wadsworth, Doctor of Public Service</td>
<td>Lotfi Zadeh, Doctor of Science</td>
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<tr>
<td>December, 1984</td>
<td>Allen E. Gotieb, Doctor of Laws</td>
<td>Joseph T. Traub, Doctor of Science</td>
</tr>
<tr>
<td>May, 1985</td>
<td>George J. Becker, Jr., Doctor of Public Service</td>
<td>LeRoy T. Walker, Sr., Doctor of Public Service</td>
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<td>Jerry Collins, Doctor of Public Service</td>
<td>James Bacchus, Doctor of Public Service</td>
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<td></td>
<td>D. Robert Graham, Doctor of Public Service</td>
<td>Nancy Burnett, Doctor of Commercial Science</td>
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<tr>
<td></td>
<td>William C. Schwartz, Doctor of Engineering Science</td>
<td>Robert E. Kahn, Doctor of Science</td>
</tr>
<tr>
<td>March, 1986</td>
<td>Isaac Bashevis Singer, Doctor of Letters</td>
<td>Dr. G. Vince Amico, Doctor of Science</td>
</tr>
<tr>
<td>October, 1988</td>
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<td>Dr. Lester Mandell, Doctor of Commercial Science</td>
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<td>John D. Holloway, Doctor of Public Service</td>
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<td>Wolfgang-Detlef Petri, Doctor of Commercial Science</td>
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<tr>
<td>May, 1989</td>
<td>Frank M. Hubbard, Doctor of Public Service</td>
<td></td>
</tr>
<tr>
<td></td>
<td>David Albertson, Doctor of Humane Letters</td>
<td></td>
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</tbody>
</table>
A.A.: associate in arts degree. A degree designed for transfer to an upper division college or university. A Florida A.A. degree satisfies General Education (GEP) at all Florida SUS Schools.

Accreditation: certification that the college/school or program has met established standards and is nationally recognized by appropriate accrediting agencies.

ACT: American College Testing program is used for undergraduate admission purposes.

AddDrop: online procedure used to alter class schedules after registration. During this time, students can adjust their schedules through MyUCF Web Guide. Available online at https://my.ucf.edu.

Audit (course): a student on academic probation is disqualified from the University. Students are not eligible for readmission after exclusion. See “Readmission” for details.

Baccalaureate or Bachelors Degree: completion of all University and major graduation requirements as certified by the University (B.A. is the Bachelor of Arts degree and B.S. is the Bachelor of Science degree).

BCBS: Burnett College of Biomedical Sciences.

Breaking Catalog: loss of eligibility to follow graduation requirements in a specific catalog.

Catalog: resource for UCF academic policies and procedures, college/school and degree requirements, course descriptions and faculty listings. It is published annually and its contents are subject to change. Available online at http://www.catalog.sdes.ucf.edu

Catalog Year: the edition of the University catalog that governs course prerequisites, co-requisites and graduation requirements for a particular academic year.

CBA: College of Business Administration

CECS: College of Engineering and Computer Science

Certificate: special program of study supplemental to a major.

Cl: consent of instructor.

Class Schedule Search: a component of the online MyUCF system (https://my.ucf.edu) that lists courses and class sections offered each academic term.

CLAST: College Level Academic Skills Test: the CLAST is a required statewide test which measures selected communication and mathematics skills.

CLAST Alternative: refers to another way of satisfying one or more subtests of the CLAST requirement other than taking the exam - through combination test scores (SAT or ACT) and specific course grades.

COE: College of Education.

COHPA: College of Health and Public Affairs.

College: collection of related academic departments. There are nine colleges at UCF: Arts and Humanities (CAH), Business Administration (CBA), Burnett College of Biomedical Sciences (BCBS), Education (COE), Engineering and Computer Science (CECS), Health and Public Affairs (COHPA), Optics and Photonics (COP), The Burnett Honors College (BHC), Rosen College of Hospitality Management (RHM), and Sciences (COS).

Common Course Numbering: the statewide course numbering system (SCNS) uses a course designation that consists of a 3-letter prefix and a 4-digit number and when necessary a one- or two-letter suffix.

Common Program Prerequisite: the State of Florida has identified Common Program Prerequisites for all University programs. These prerequisites must be completed by all students entering that field of study, must be accepted by all state universities and must be applied towards the degree.

Contact hours: number of hours students meet in class.

Continuous Enrollment: enrollment not interrupted by non-attendance for either consecutive Fall and Spring terms, or consecutive Spring, Summer term, and Fall.

COS: College of Sciences.

CR: co-requisite is an additional course in which you must enroll during the same term as the primary course you desire to take.

Credit Hour or Semester Hour: every course taught requires students to cover the use and replacement of equipment.

Credit Hour or Semester Hour: every course taught requires students to complete four composition courses (12 semester hours) and two three-hour courses with common course numbers ranging from 1000-2999 (e.g., ENC 1101, English Composition I). Generally, freshmen should enroll in 1000 and 2000 level courses.

Directory Information: information items that the Family Educational Rights and Privacy Act of 1974, as amended, (FERPA) authorizes the University to release without the student's prior consent, unless the student has filed a “Directory Disclosure/Release Authorization Form” with the Registrar’s Office. Directory information at UCF includes the student's name, current mailing address, telephone number, date of birth, e-mail address, enrollment status, dates of attendance, major field of study, degree and awards received, participation in officially recognized activities and sports, and athletes' height and weight.

Distance and Distributed Learning: learning online through the UCF Virtual Campus, which provides opportunities for students to enroll in credit courses and select degree programs through a variety of interactive distributed technologies.

Double Major: awarded when the student concur-
Grade Point Deficiency: for readmission purposes only, this term is defined as the number of UCF credit hours earned with a "B" (3.0 GPA) grade that a student requires to raise his or her UCF cumulative grade point average to 2.0. A student’s grade point deficiency is calculated when the student applies for readmission.

Health Form: documentation of immunity for measles and rubella, as well as consent for treatment at the University Health Center (must be completed and returned to Student Health Services prior to the first registration).

Hold: also called a “negative service indicator”, this is a block on activity for transcripts, grades, diploma, or registration because of financial or other obligations to UCF.

Incomplete: grade assigned by the instructor when a student is unable to complete a course due to extenuating circumstances. Must be completed in 12 months or by graduation, whichever comes first.

Junior and Senior Courses: upper level courses with common course numbers ranging from 3000-4999 (e.g., ENG 3311, Advanced Expository Writing).

Kiosk: stand-alone PCs located in UCF public areas providing access to student records and general information.

Limited Access: certain academic programs designated as “limited access” only guarantee admission to a limited number of applicants.

Lower Level Courses: courses with a number of 1000-2999 (not less than 1000).

Major: group of related courses that constitute a focused program of study in a specific area of knowledge.

Material and Supply Fee: A charge associated with some courses to cover items consumed within the class.

Minor: a complement to a bachelor’s degree program/major requiring at least 18 credit hours in a field.

NID: Network Identification Number that students use to log in to WebCT, Pegasus e-mail and the UCF computer labs.

OASIS: Office of Academic Support and Information Services is the primary office for undergraduate academic assistance in the College of Arts and Humanities and the College of Sciences.

Overall GPA: cumulative GPA of UCF and transfer course work.

Password: a series of four to eight characters and numbers chosen by the student that is associated with the PID (Personal Identification Number). Each time you use the PID to enter myUCF, you also will enter your Password.

Pending Status: category assigned to students who desire to enter limited or restricted access programs. Typically, students are required to complete the GEP and all major pre-requisites prior to admission into the desired limited access program. (Department will change student’s status upon acceptance into the program.)

PID: (Personal IDentification Number); personal eight-digit code required when entering MyUCF or the UCF Information Kiosks.

SASC Degree Audit: a Student Academic Support System is a computerized degree audit that lists courses completed toward major and degree requirements.

Sequence: a series of courses within the same subject area. Generally, the student takes these courses in numerical order (e.g., PHY 2053 then 2054). Students should consult the advisor before registering out of sequence.

STEP: State Tuition Exemption Program

Student Success Center: advising offices and other academic support services for first-year students located on the first two floors of Howard Phillips Hall.

SUS: State University System. All eleven Florida public universities are part of the SUS.

Term: the academic year at UCF is divided into segments called ”terms” (also called “semesters”). Each lasts approximately 16 weeks. Some universities break the year into fourths and call them “quarters.” UCF is on the semester system; however, we usually speak of “Fall Term,” “Spring Term,” or “Summer Sessions.”

Term GPA: grade point average (GPA) on work attempted during any given term.

TBHC: The Burnett Honors College

Third Attempt Charge: See ‘Repeat Surcharge.’

Track: one of two or more significant variations in a degree program or major. Approximately 50% of the courses in one track differ from the courses required in other tracks.

Transcript: official academic record mailed from the Registrar’s Office.

TSD: Time Shortened Degree or Accelerated Education Opportunities.

TSR: Transfer Summary Report is a listing of all coursework transferring to the University for credit. A preliminary TSR is generated at the time of acceptance. A final TSR is processed after all final transcripts have been received by the Admissions Office.

Transient Student: a UCF student enrolled in courses at another regionally-accredited institution.

UCF Area Campus System: UCF at Cocoa, UCF at Daytona Beach, UCF Downtown, UCF at Heathrow, UCF at MetroWest, UCF at Ocala, UCF at Osceola, UCF at Palm Bay, UCF at Sanford/Lake Mary, UCF at South Lake, UCF at South Orlando.

UCF GPA: grade point average (GPA) on all work attempted while in attendance at UCF.

Upper Level Courses: courses with a course number of 3000-4999.

Withdrawal, Withdraw from a Course: to formally request an official withdrawal from one or more courses during the first half of the term or session through MyUCF (https://my.ucf.edu) or at the Registrar’s Office.
INDEX

Academic Advising .................................................. 40
Advising .............................................................. 40
Alcoholic Beverage Policy ......................................... 10
Amnesty Program ................................................... 57
Behavior Standards ................................................. 11
Calendar .............................................................. 8,9
Development and Retention ....................................... 20
Exploration Program ............................................... 21
Honors ................................................................. 54
Non-discrimination Policy ......................................... 10
Probation ............................................................. 55
Programs .............................................................. 67
Regulations and Procedures ....................................... 51
Satisfactory Progress Policy ...................................... 34
Computer Services .................................................. 17
Services for Student Athletes ..................................... 20
Academic Standing .................................................. 55
Academic Advising .................................................. 39
Academic Services for Student-Athletes ......................... 20
Academic Exploration Program .................................... 20
First Year Transitions .............................................. 21
Honors College, The Burnett ...................................... 39
Multicultural Academic and Support Services .................. 26
Pre-Health Professions Advising .................................. 40
Student Academic Resource Center .............................. 21
Accreditation ......................................................... 12
Activity and Service Fee Business Office ......................... 23
Add/Drop Policy ...................................................... 57
Address and E-mail Changes ...................................... 76
Administrative Procedures Act .................................... 10
Administrative Student Support Services ......................... 23
Admissions, Undergraduate ....................................... 27,28
Admissions Categories ............................................. 28
Admissions and Standards Committee ......................... 56
(See also: Readmission)
Advanced Placement Program (AP) ............................... 59
Advising, Academic .................................................. 39
Aerospace Studies (ROTC) ......................................... 94
African-American Studies Program ............................... 75
Air Force (ROTC) ..................................................... 94
Alcohol and Other Drug Programming ......................... 23
Alumni Association .................................................. 18
American Sign Language ......................................... 48
American Studies Program ......................................... 76
Amnesty Program ................................................... 57
Anthropology Department .......................................... 101

Application for Admission .................................... 28
Application Deadlines ............................................. 28
Area Studies Programs ............................................ 75
Arena, UCF ............................................................ 18
Army ROTC (Military Science) .................................. 94
Arts and Humanities, College of ............................... 74
A.S. to B.S. Programs .............................................. 298
Athletics, Intercollegiate ........................................... 18
Athletic Eligibility and Retention Committee .................... 57
Attendance, Absences, or Unsatisfactory Work ................. 53
Audit Registration .................................................... 51
Senior Citizen ....................................................... 51
Award Notification .................................................. 33
Baccalaureate Degrees ............................................ 67
Baccalaureate Honors ............................................. 31,54
Board of Education, State of Florida ............................ 6
Board of Trustees, State of Florida ................................ 6
Bookstore .................................................................. 18
Burnett College of Biomedical Science ......................... 69
Burnett Honors College ............................................ 71
Business Administration, College of .................. 79
Calendar, University Academic ................................... 8,9
Cambridge AICE Exams ........................................... 61
Campuses, Regional ............................................... 13
Campus Alcoholic Beverages Policy ............................ 10
Campus Faiths and Ministries ..................................... 26
Campus Life .......................................................... 24
Campus Tours .......................................................... 27
Campus, Virtual ....................................................... 12
Cardiopulmonary Sciences Program ............................. 97
Career Service and Experiential Learning ....................... 22
Catalog, Choice of .................................................. 44
Center for Applied Human Factors in Aviation (CAHFA) .................. 64
Center for Economic Education .................................. 64
Center for Multilingual Multicultural Studies .................. 64
Central Florida Research Park ..................................... 15
Certificates ............................................................. 58,258,283
Certifications, Enrollment ......................................... 58
Child Care (see Creative School) .................................. 23
Child, Family and Community Sciences Department ........... 85
Classroom Responsibility .......................................... 53
Clinical Experiences, Office of ................................... 84
Cocoa Regional Campus ............................................ 14
College Level Academic Skills Test (CLAST) .................. 49
College Level Examination Program (CLEP) .................. 60
Communicative Disorders, Department of ..................... 97
Computer Science, School of ..................................... 90
Complaint Policy ..................................................... 11
Computer Services and Telecommunications .................... 17
Continuing Education, Division of ............................... 63
Continuous Enrollment ............................................. 46
Co-op Student ........................................................ 54
Cooperative Education ............................................. 63
Correspondence Courses .......................................... 50
Costs, School ........................................................ 33
Counseling Center .................................................... 22
Course Development & Web Services ............................. 18
Course Repeat Surcharge ......................................... 57
Creative School for Children ....................................... 23
Creative School for Children ....................................... 23
Cum Laude ............................................................. 54
CREOL .................................................................. 63
Dean’s List ............................................................. 54
DANTES Examination Credit ..................................... 62
Daytona Beach Regional Campus ................................. 13
Deferrals of Tuition and Fees ....................................... 33
Degree Certifications ............................................... 51
Degrees Offered ....................................................... 67,98
Degree Requirements ............................................... 46
Credit
By Examination ....................................................... 61
Dual Usage ............................................................ 50
While Disqualified/Excluded ....................................... 55

Credit Hour Limits ................................................... 51

Curriculum

Departments

Accounting ............................................................. 80
Anthropology .......................................................... 101
Art ........................................................................ 76
Biology ................................................................. 101
Chemistry ............................................................... 102
Child, Family and Community Sciences ......................... 86
Civil and Environmental Engineering .......................... 89
Communication ....................................................... 102
Communication Sciences and Disorders ......................... 97
Criminal Justice and Legal Studies ............................... 97
Economics .............................................................. 81
Educational Research, Technology and Leadership .......... 86
Educational Studies .................................................. 86

UCF
<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical and Computer Science</td>
<td>90</td>
</tr>
<tr>
<td>English</td>
<td>76</td>
</tr>
<tr>
<td>Engineering Technology</td>
<td>93</td>
</tr>
<tr>
<td>Finance</td>
<td>81</td>
</tr>
<tr>
<td>Health Professions</td>
<td>97</td>
</tr>
<tr>
<td>History</td>
<td>77</td>
</tr>
<tr>
<td>Industrial Engineering &amp; Management Systems</td>
<td>92</td>
</tr>
<tr>
<td>Management</td>
<td>81</td>
</tr>
<tr>
<td>Management Information Systems</td>
<td>82</td>
</tr>
<tr>
<td>Marketing</td>
<td>82</td>
</tr>
<tr>
<td>Mathematics</td>
<td>102</td>
</tr>
<tr>
<td>Mechanical, Materials, and Aerospace Engineering Majors</td>
<td>92</td>
</tr>
<tr>
<td>Molecular Biology and Microbiology</td>
<td>69</td>
</tr>
<tr>
<td>Music</td>
<td>78</td>
</tr>
<tr>
<td>Nursing, School of</td>
<td>99</td>
</tr>
<tr>
<td>Optics and Photonics, College of</td>
<td>100</td>
</tr>
<tr>
<td>Philosophy</td>
<td>78</td>
</tr>
<tr>
<td>Physics</td>
<td>102</td>
</tr>
<tr>
<td>Political Science</td>
<td>102</td>
</tr>
<tr>
<td>Public Administration</td>
<td>99</td>
</tr>
<tr>
<td>Psychology</td>
<td>103</td>
</tr>
<tr>
<td>Sociology</td>
<td>103</td>
</tr>
<tr>
<td>Statistics and Actuarial Science</td>
<td>103</td>
</tr>
<tr>
<td>Teaching and Learning Principles</td>
<td>86</td>
</tr>
<tr>
<td>Theatre Department</td>
<td>78</td>
</tr>
<tr>
<td>Dick Pope, Sr. Institute for Tourism Studies</td>
<td>64</td>
</tr>
<tr>
<td>Digital Media, School of</td>
<td>76</td>
</tr>
<tr>
<td>Directory Information</td>
<td>58</td>
</tr>
<tr>
<td>Disability Services, Student</td>
<td>23</td>
</tr>
<tr>
<td>Dispute Resolution Services</td>
<td>26</td>
</tr>
<tr>
<td>Disqualification/Suspension, Academic</td>
<td>55</td>
</tr>
<tr>
<td>Diversity Requirement</td>
<td>47</td>
</tr>
<tr>
<td>Double Majors</td>
<td>50</td>
</tr>
<tr>
<td>Downtown (UCF)</td>
<td>13</td>
</tr>
<tr>
<td>Drug-Free Work Place/Drug-Free Schools, Statement on</td>
<td>10</td>
</tr>
<tr>
<td>Dual Enrollment Applicants</td>
<td>29.35</td>
</tr>
<tr>
<td>Dual Usage of Credit Hours</td>
<td>50</td>
</tr>
<tr>
<td>Early Admission</td>
<td>29</td>
</tr>
<tr>
<td>Education, College of</td>
<td>83</td>
</tr>
<tr>
<td>Employment, Work Study Jobs</td>
<td>33</td>
</tr>
<tr>
<td>Endowed Chairs</td>
<td>15</td>
</tr>
<tr>
<td>Engineering and Computer Science, College of</td>
<td>87</td>
</tr>
<tr>
<td>Enrollment Certifications</td>
<td>52</td>
</tr>
<tr>
<td>Enrollment, Continuous</td>
<td>46</td>
</tr>
<tr>
<td>Environmental Engineering, Civil and</td>
<td>89</td>
</tr>
<tr>
<td>Excess Hours</td>
<td>51</td>
</tr>
<tr>
<td>Excelsior College Examinations</td>
<td>62</td>
</tr>
<tr>
<td>Exclusion, Academic</td>
<td>55</td>
</tr>
<tr>
<td>Executive Development Center</td>
<td>64</td>
</tr>
<tr>
<td>Experiential Learning</td>
<td>63</td>
</tr>
<tr>
<td>Family Educational Rights and Privacy Act (FERPA)</td>
<td>58</td>
</tr>
<tr>
<td>Fees, Schedule of, Tuition</td>
<td>36,37</td>
</tr>
<tr>
<td>Fee Waivers, Appeals, Refunds</td>
<td>36</td>
</tr>
<tr>
<td>Film, School of</td>
<td>76</td>
</tr>
<tr>
<td>Financial Assistance, Student</td>
<td>32</td>
</tr>
<tr>
<td>First Year Advising and Exploration</td>
<td>21</td>
</tr>
<tr>
<td>First Year Transitions</td>
<td>21</td>
</tr>
<tr>
<td>Florida-China Linkage Institute</td>
<td>64</td>
</tr>
<tr>
<td>Florida Eastern Europe Linkage Institute</td>
<td>64</td>
</tr>
<tr>
<td>Florida Foundation for Future Scientists</td>
<td>23</td>
</tr>
<tr>
<td>Florida Institute of Government at UCF</td>
<td>65</td>
</tr>
<tr>
<td>Florida Prepaid College Plan</td>
<td>37</td>
</tr>
<tr>
<td>Florida Resident/Tuition</td>
<td>37</td>
</tr>
<tr>
<td>Florida Solar Energy Center (FSEC)</td>
<td>65</td>
</tr>
<tr>
<td>Florida Space Institute (FSI)</td>
<td>65</td>
</tr>
<tr>
<td>Florida Work Experience Program (FWEP)</td>
<td>35</td>
</tr>
<tr>
<td>Foreign Language Proficiency Requirement</td>
<td>48</td>
</tr>
<tr>
<td>Foundation, UCF, Inc.</td>
<td>18</td>
</tr>
<tr>
<td>Freshman Applicants</td>
<td>28</td>
</tr>
<tr>
<td>Freshman Classification</td>
<td>54</td>
</tr>
<tr>
<td>Fund Disbursement</td>
<td>34</td>
</tr>
<tr>
<td>General Education Program (GEP)</td>
<td>46</td>
</tr>
<tr>
<td>Glossary</td>
<td>435</td>
</tr>
<tr>
<td>Good Standing</td>
<td>55</td>
</tr>
<tr>
<td>Gordon Rule</td>
<td>48</td>
</tr>
<tr>
<td>Grad On Track (GOT)</td>
<td>50</td>
</tr>
<tr>
<td>Grad Change</td>
<td>53</td>
</tr>
<tr>
<td>Grade Forgiveness Policy</td>
<td>54</td>
</tr>
<tr>
<td>Grade Reports</td>
<td>53</td>
</tr>
<tr>
<td>Grade System</td>
<td>52</td>
</tr>
<tr>
<td>Graduate Programs</td>
<td>68</td>
</tr>
<tr>
<td>Graduation Application Deadline</td>
<td>50</td>
</tr>
<tr>
<td>Graduation Rates Disclosure</td>
<td>18</td>
</tr>
<tr>
<td>Graduation Requirements</td>
<td>46</td>
</tr>
<tr>
<td>Greek Affairs</td>
<td>24</td>
</tr>
<tr>
<td>Health &amp; Public Affairs, College of</td>
<td>96</td>
</tr>
<tr>
<td>Health</td>
<td>96</td>
</tr>
<tr>
<td>Health Sciences Program (Athletic Training Track)</td>
<td>98</td>
</tr>
<tr>
<td>Health Sciences Program (Generalist Track)</td>
<td>98</td>
</tr>
<tr>
<td>Health Services Administration Program</td>
<td>98</td>
</tr>
<tr>
<td>Higher Education Act</td>
<td>59</td>
</tr>
<tr>
<td>Hold Status</td>
<td>51</td>
</tr>
<tr>
<td>Honors, Academic</td>
<td>54</td>
</tr>
<tr>
<td>Honors College, The Burnett</td>
<td>71</td>
</tr>
<tr>
<td>Hospitality Management, Rosen School of</td>
<td>104</td>
</tr>
<tr>
<td>Housing &amp; Residence Life</td>
<td>24</td>
</tr>
<tr>
<td>Humanities (see Philosophy)</td>
<td>78</td>
</tr>
<tr>
<td>Incomplete (&quot;F&quot;) Grade</td>
<td>53</td>
</tr>
<tr>
<td>Information Technologies and Resources</td>
<td>17</td>
</tr>
<tr>
<td>Institute for Simulation and Training (IST)</td>
<td>65</td>
</tr>
<tr>
<td>Institutes and Centers for Research</td>
<td>64</td>
</tr>
<tr>
<td>Institute of Statistics and Data Mining</td>
<td>65</td>
</tr>
<tr>
<td>Institute for Technical Documentation</td>
<td>66</td>
</tr>
<tr>
<td>Instructional Resources</td>
<td>17</td>
</tr>
<tr>
<td>International Applicants, Admission of</td>
<td>30</td>
</tr>
<tr>
<td>International Baccalaureate Program</td>
<td>59</td>
</tr>
<tr>
<td>International Services Center</td>
<td>16</td>
</tr>
<tr>
<td>International Studies and Programs</td>
<td>63</td>
</tr>
<tr>
<td>Intramural Sports</td>
<td>26</td>
</tr>
<tr>
<td>Judaic Studies Program</td>
<td>77</td>
</tr>
<tr>
<td>Junior Classification</td>
<td>54</td>
</tr>
<tr>
<td>Late Payment Fee</td>
<td>35</td>
</tr>
<tr>
<td>Late Registration Fee</td>
<td>35</td>
</tr>
<tr>
<td>Latin-American Area Studies</td>
<td>77</td>
</tr>
<tr>
<td>LEAD Scholars Program</td>
<td>25</td>
</tr>
<tr>
<td>Liberal and Interdisciplinary Studies</td>
<td>105</td>
</tr>
<tr>
<td>Libraries, University</td>
<td>17</td>
</tr>
<tr>
<td>Limited Access Programs</td>
<td>28</td>
</tr>
<tr>
<td>Limited Non-Degree Applicants</td>
<td>30</td>
</tr>
<tr>
<td>LINK First Year Experience</td>
<td>24</td>
</tr>
<tr>
<td>Magna Cum Laude</td>
<td>54</td>
</tr>
<tr>
<td>Major, Change of</td>
<td>58</td>
</tr>
<tr>
<td>Majors</td>
<td>58, 67,102</td>
</tr>
<tr>
<td>Meal Plans (see Campus Life)</td>
<td>23</td>
</tr>
<tr>
<td>Mechanical, Materials, and Aerospace Engineering Department</td>
<td>92</td>
</tr>
<tr>
<td>Medical Laboratory Sciences Program</td>
<td>96</td>
</tr>
<tr>
<td>Medical School Program, Accelerated UCF/USF</td>
<td>295</td>
</tr>
<tr>
<td>Military Science (Army ROTC)</td>
<td>94</td>
</tr>
<tr>
<td>Minors, Academic</td>
<td>58, 68,258</td>
</tr>
<tr>
<td>Modern Languages and Literatures</td>
<td>74</td>
</tr>
<tr>
<td>Molecular Biology and Microbiology</td>
<td>69</td>
</tr>
<tr>
<td>Multicultural Academic and Support Services (MASS)</td>
<td>26</td>
</tr>
<tr>
<td>Multilingual-Multicultural Studies, Center for</td>
<td>63</td>
</tr>
<tr>
<td>University of Central Florida</td>
<td>2006-2007 Undergraduate Catalog</td>
</tr>
<tr>
<td>Topic</td>
<td>Page</td>
</tr>
<tr>
<td>----------------------------------------------------------------------</td>
<td>------</td>
</tr>
<tr>
<td>Name Changes</td>
<td>57</td>
</tr>
<tr>
<td>National Consortium for Academics &amp; Sport</td>
<td>21</td>
</tr>
<tr>
<td>No Credit (NC) Grade</td>
<td>52</td>
</tr>
<tr>
<td>Non-Degree-Seeking Students</td>
<td>30,53</td>
</tr>
<tr>
<td>OASIS - College of Arts &amp; Sciences</td>
<td>75</td>
</tr>
<tr>
<td>Oak Ridge Associated Universities (ORAU)</td>
<td>64</td>
</tr>
<tr>
<td>Off-Campus College Credit Program</td>
<td>63</td>
</tr>
<tr>
<td>Off-Campus Student Services</td>
<td>24</td>
</tr>
<tr>
<td>Office of Undergraduate Studies</td>
<td>105</td>
</tr>
<tr>
<td>Ombuds Office, University</td>
<td>16</td>
</tr>
<tr>
<td>Orientation</td>
<td>28</td>
</tr>
<tr>
<td>Orientation Services</td>
<td>22</td>
</tr>
<tr>
<td>Overawards</td>
<td>35</td>
</tr>
<tr>
<td>Past Due Accounts</td>
<td>37</td>
</tr>
<tr>
<td>Payment Procedures</td>
<td>36</td>
</tr>
<tr>
<td>Police, Public Safety and</td>
<td>16</td>
</tr>
<tr>
<td>Post-Baccalaureate</td>
<td>54</td>
</tr>
<tr>
<td>Posthumous Degrees</td>
<td>46</td>
</tr>
<tr>
<td>President's Honor Roll</td>
<td>54</td>
</tr>
<tr>
<td>Provisional Student</td>
<td>54</td>
</tr>
<tr>
<td>Radiologic Sciences Program</td>
<td>98</td>
</tr>
<tr>
<td>Reactivation of Application</td>
<td>28</td>
</tr>
<tr>
<td>Readmission</td>
<td>55</td>
</tr>
<tr>
<td>Recreation and Wellness Center</td>
<td>26</td>
</tr>
<tr>
<td>Records</td>
<td>58</td>
</tr>
<tr>
<td>Refund of Fees</td>
<td>37</td>
</tr>
<tr>
<td>Regional Campuses, UCF</td>
<td>13</td>
</tr>
<tr>
<td>Regional Campus Student Services</td>
<td>25</td>
</tr>
<tr>
<td>Registrar's Office</td>
<td>22</td>
</tr>
<tr>
<td>Registration</td>
<td>51</td>
</tr>
<tr>
<td>Religious Observances</td>
<td>53</td>
</tr>
<tr>
<td>Repayment Policies</td>
<td>35</td>
</tr>
<tr>
<td>Repeat Surcharge</td>
<td>57</td>
</tr>
<tr>
<td>Research, Institutes and Centers for</td>
<td>64</td>
</tr>
<tr>
<td>Research Park</td>
<td>15</td>
</tr>
<tr>
<td>Residency Reclassification</td>
<td>39</td>
</tr>
<tr>
<td>Resource Center, Off-Campus Student</td>
<td>24</td>
</tr>
<tr>
<td>Returned Check Charge</td>
<td>36</td>
</tr>
<tr>
<td>Room and Board</td>
<td>33</td>
</tr>
<tr>
<td>Rosen College of Hospitality Management</td>
<td>25</td>
</tr>
<tr>
<td>ROTC (see Air Force; Army)</td>
<td>94</td>
</tr>
<tr>
<td>Russian Area Studies</td>
<td>73</td>
</tr>
<tr>
<td>SASS Degree Audit</td>
<td>47</td>
</tr>
<tr>
<td>Satisfactory Academic Progress</td>
<td>34</td>
</tr>
<tr>
<td>Schedule Web Guide</td>
<td>51</td>
</tr>
<tr>
<td>School Costs</td>
<td>33</td>
</tr>
<tr>
<td>Second Bachelor's Degree</td>
<td>30,50</td>
</tr>
<tr>
<td>Sciences, College of</td>
<td>101</td>
</tr>
<tr>
<td>Semester Average</td>
<td>53</td>
</tr>
<tr>
<td>Semester Hours Defined</td>
<td>51</td>
</tr>
<tr>
<td>Senior Citizens</td>
<td>51</td>
</tr>
<tr>
<td>Senior Classification</td>
<td>54</td>
</tr>
<tr>
<td>Service-Learning</td>
<td>288</td>
</tr>
<tr>
<td>Sexual Harrassment Policy</td>
<td>10</td>
</tr>
<tr>
<td>Shakespeare Festival</td>
<td>18</td>
</tr>
<tr>
<td>Simulation &amp; Training, Institute for</td>
<td>65</td>
</tr>
<tr>
<td>Small Business Development Center</td>
<td>66</td>
</tr>
<tr>
<td>Small Business Institute</td>
<td>66</td>
</tr>
<tr>
<td>Social Sciences Program</td>
<td>75</td>
</tr>
<tr>
<td>Social Work, School of</td>
<td>99</td>
</tr>
<tr>
<td>Sophomore Classification</td>
<td>54</td>
</tr>
<tr>
<td>South Orlando, UCF</td>
<td>15</td>
</tr>
<tr>
<td>Special Student Classification</td>
<td>54</td>
</tr>
<tr>
<td>State of Florida Employee Registration</td>
<td>51</td>
</tr>
<tr>
<td>State of Florida Employee Fee Waivers</td>
<td>37</td>
</tr>
<tr>
<td>State Tuition Exempt Program (STEP)</td>
<td>51</td>
</tr>
<tr>
<td>Student</td>
<td></td>
</tr>
<tr>
<td>Academic Resource Center (SARC)</td>
<td>21</td>
</tr>
<tr>
<td>Accounts Office</td>
<td>35</td>
</tr>
<tr>
<td>Attendance and Absences</td>
<td>53</td>
</tr>
<tr>
<td>Classifications</td>
<td>54</td>
</tr>
<tr>
<td>Conduct</td>
<td>26,53</td>
</tr>
<tr>
<td>Disability Services</td>
<td>23</td>
</tr>
<tr>
<td>Employment</td>
<td>33</td>
</tr>
<tr>
<td>Financial Assistance</td>
<td>32</td>
</tr>
<tr>
<td>Government</td>
<td>25</td>
</tr>
<tr>
<td>Health Services</td>
<td>25</td>
</tr>
<tr>
<td>Involvement</td>
<td>26</td>
</tr>
<tr>
<td>Leadership Programs</td>
<td>25</td>
</tr>
<tr>
<td>Legal Services</td>
<td>26</td>
</tr>
<tr>
<td>Outreach Programs</td>
<td>26</td>
</tr>
<tr>
<td>Records</td>
<td>58</td>
</tr>
<tr>
<td>Responsibility for University Communications</td>
<td>11</td>
</tr>
<tr>
<td>Rights &amp; Responsibilities</td>
<td>26</td>
</tr>
<tr>
<td>Student Development &amp; Enrollment Services</td>
<td>20</td>
</tr>
<tr>
<td>Study Abroad Programs</td>
<td>63, 288</td>
</tr>
<tr>
<td>Summa Cum Laude</td>
<td>54</td>
</tr>
<tr>
<td>Summer Attendance Requirement</td>
<td>49</td>
</tr>
<tr>
<td>Temporary Student</td>
<td>54</td>
</tr>
<tr>
<td>Testing Center</td>
<td>21</td>
</tr>
<tr>
<td>Third Attempt Course Repeat Surcharge</td>
<td>57</td>
</tr>
<tr>
<td>TOEFL</td>
<td>30</td>
</tr>
<tr>
<td>Tourism Studies, Dick Pope, Sr. Institute for</td>
<td>64</td>
</tr>
<tr>
<td>Tours, Campus</td>
<td>27</td>
</tr>
<tr>
<td>Transcript Requests</td>
<td>57</td>
</tr>
<tr>
<td>Transfer Applicants</td>
<td>29</td>
</tr>
<tr>
<td>Transfer Credit</td>
<td>31</td>
</tr>
<tr>
<td>Transfer Services</td>
<td>21, 43</td>
</tr>
<tr>
<td>Transfer Students</td>
<td>29, 35</td>
</tr>
<tr>
<td>Transient Student</td>
<td>30,50,54</td>
</tr>
<tr>
<td>Transit Services</td>
<td>18</td>
</tr>
<tr>
<td>Tuition and Fees</td>
<td>37</td>
</tr>
<tr>
<td>Tuition Waivers</td>
<td>37</td>
</tr>
<tr>
<td>UCF Average (Academic)</td>
<td>53</td>
</tr>
<tr>
<td>UCF Employee Registration</td>
<td>51</td>
</tr>
<tr>
<td>UCF Employee Fee Waiver</td>
<td>37</td>
</tr>
<tr>
<td>Undeclared Students</td>
<td>58</td>
</tr>
<tr>
<td>Undergraduate Studies, Office of</td>
<td>16, 105</td>
</tr>
<tr>
<td>Upper Division, Admission to</td>
<td>50</td>
</tr>
<tr>
<td>Veteran's Services</td>
<td>22</td>
</tr>
<tr>
<td>Withdrawal Policy</td>
<td>52</td>
</tr>
<tr>
<td>Women's Studies Program</td>
<td>78</td>
</tr>
<tr>
<td>Work Study Jobs</td>
<td>33, 34</td>
</tr>
</tbody>
</table>

439