2003-2004
Undergraduate Catalog
University Of Central Florida
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The UCF Creed

Integrity, scholarship, community, creativity and excellence are the core values that guide our conduct, performance, and decisions.

**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.
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. 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 115,000 alumni.

Cordially yours,

John C. Hitt
President
# Table of Contents

**University Administration** .............................................. 6  
**Campus Services Directory** ........................................... 9  
**Academic Calendars** ................................................ 11  
**University Notices** .................................................. 13  
  - Administrative Procedures Act Policy Statement ............ 13  
  - Sexual Harassment Policy ........................................... 13  
  - Drug-Free Workplace/Drug-Free Schools Policy Statement 13  
  - Academic Behavior Standards .................................... 13  
  - Student Use of Technology ........................................ 13  
  - Student Responsibility for University Communication .... 13  
**University of Central Florida** ....................................... 14  
  - Mission Statement .................................................. 14  
  - Accreditation ....................................................... 14  
  - The University ...................................................... 15  
  - Online @ UCF The Virtual Campus ............................... 15  
  - UCF Area Campuses .................................................. 15  
  - Central Florida Research Park ................................. 17  
  - Endowed Chairs ..................................................... 18  
  - University Ombuds Office ......................................... 18  
  - Office of Undergraduate Studies .............................. 18  
  - UCF Public Safety and Police .................................... 18  
  - Information Technologies/Resources ............................ 18  
  - Intercollegiate Athletics ......................................... 18  
  - Graduation Rate Disclosure ..................................... 20  
  - UCF Arena ............................................................. 20  
  - University Bookstore ............................................... 20  
  - Transit Services .................................................... 20  
  - Orlando - UCF Shakespeare Festival .......................... 20  
  - UCF Alumni Association ......................................... 20  
  - UCF Foundation, Incorporated .................................... 20  
**Division of Student Development and Enrollment Services** ... 21  
  - Academic Development and Retention ......................... 22  
  - Administrative Support Services ............................... 23  
  - Assessment and Planning .......................................... 23  
  - Campus Life .......................................................... 24  
  - Special Programs .................................................... 26  
  - Student Financial Assistance .................................... 27  
  - Undergraduate Admissions ....................................... 27  
**Undergraduate Admissions** ........................................... 28  
  - Campus Tours .......................................................... 28  
  - Application for Admission ....................................... 29  
  - Limited Access Programs ......................................... 29  
  - Orientation ............................................................ 29  
  - Admission Categories ............................................. 29  
  - International Applicants ......................................... 31  
  - Non-Academic Admission Clearances ............................ 32  
  - Transfer Credit ....................................................... 32  
  - Baccalaureate Honors .............................................. 32  
**Financial Information** .................................................. 33  
  - Office of Student Financial Assistance ....................... 33  
  - Determining Eligibility .......................................... 33  
  - School Costs .......................................................... 33  
  - UCF Application Deadlines ....................................... 34  
  - Application Procedures .......................................... 34  
  - Transfer Students .................................................... 34  
  - Dual Enrollment ..................................................... 34  
  - Independent Student Status ..................................... 34  
  - Financial Aid Programs Available at UCF .................... 35  
  - Loans ................................................................. 35  
  - Employment ............................................................ 35  
  - Deferreds of Tuition and Fees .................................. 35  
  - Fund Disbursements ................................................ 35  
  - Overawards ............................................................. 36  
  - Refund and Return of Title IV Funds ......................... 36  
  - Satisfactory Academic Progress Policy ....................... 36  
  - UCF Undergraduate to Graduate Fellowship ................... 37  
  - Student Rights and Responsibilities ......................... 37  
  - Student Accounts Office .......................................... 37  
  - Schedule of Fees .................................................... 37  
  - Late Registration Fee ............................................. 37  
  - Payment Deadline ................................................... 37  
  - Student Financial Responsibility Statement .................. 37  
**Late Registration Fee and Late Payment Fee Appeals** .......... 37  
**Past-due Accounts** ..................................................... 38  
**Acceptable Forms of Payment** ...................................... 38  
**Payment Procedures** .................................................. 38  
**Refund of Fees** ........................................................ 38  
**Tuition Waivers** ....................................................... 39  
**Florida Residency for Tuition Purposes** ....................... 39  
**Residency Reclassification** ......................................... 40  
**Academic Advising** .................................................... 41  
**Transfer Services** ........................................................ 45  
**Undergraduate Degree Requirements** ........................... 47  
  - Requirements for Graduation .................................... 47  
  - Choice of Catalog and Continuous Enrollment ............... 47  
  - General Education Program ....................................... 47  
  - Diversity Requirement ............................................. 49  
  - Exit Exams ............................................................. 49  
  - Foreign Language Proficiency Requirements .................. 49  
  - SUS Foreign Language Admission Requirement ............... 49  
  - The Gordon Rule ..................................................... 49  
  - College Level Academic Skills Test (CLAST) ................ 50  
  - Summer Attendance Requirement ................................ 51  
  - Admission to the Upper Division .............................. 51  
  - Graduation Application Deadline .............................. 51  
  - Correspondence Courses ......................................... 51  
  - Double Majors ....................................................... 51  
  - Double Degree/Second Baccalaureate Degree .................. 51  
  - Dual Usage of Credit Hours ....................................... 51  
**Academic Regulations and Procedures** .......................... 52  
  - Registration Policies ............................................... 52  
  - Schedule Web Guide ................................................ 52  
  - Terms and Credit Hours .......................................... 52  
  - Credit Hour Limits ................................................ 52  
  - Holds ................................................................. 52  
  - Add/Drop Policy ..................................................... 52  
  - Audit Registration ................................................... 52  
  - Senior Citizen Audit ............................................... 52  
  - State of Florida Employee Registration ....................... 52  
  - UCF Employee Registration ....................................... 52  
  - STEP (National Guard) Registration ............................ 52  
  - State University System (SUS) Florida Transient Students 53  
  - Enrollment and Degree Certifications ......................... 53  
  - Withdrawal Policy ................................................... 53  
  - Grade System .......................................................... 54  
  - Incomplete Grade .................................................... 54  
  - Grade Change .......................................................... 54  
  - Grade Reports ........................................................ 54  
  - Attendance, Absences, or Unsatisfactory Work ............... 54  
  - Classroom Responsibility ......................................... 54  
  - Student Conduct ..................................................... 55  
  - Religious Observances .............................................. 55  
  - Student Classifications ........................................... 55  
  - Academic Honors ..................................................... 55  
  - Grade Forgiveness ................................................... 55  
  - Academic Standing .................................................. 56  
  - Earning Credit While Disqualified or Excluded .............. 56  
  - Reappraisal ............................................................ 56  
  - Athletic Retention and Eligibility Committee ............... 58  
  - Name Changes ......................................................... 58  
  - Address and E-Mail Change ...................................... 58  
  - Transcript Requests ................................................ 58  
  - Third Attempt Course Repeat Surcharges ....................... 58  
  - Major and Minor Changes ......................................... 58  
  - Student Records ..................................................... 59  
  - Family Educational Rights and Privacy Act (FERPA) ....... 59  
  - Higher Education Act ............................................. 59  
  - Accelerated Education Opportunities .......................... 59  
**Special Academic Programs and Research Institutes** .......... 64  
  - International Studies and Programs ............................ 64  
  - Study Abroad Programs ............................................ 64  
  - Center for Cooperative Education and Applied Learning .... 64  
  - Division of Continuing Education ................................ 64  
  - Institutes and Center for Research ............................. 65
# Table of Contents

- **Academic Degrees, Majors, and Minors** ........................................... 68  
- **College of Arts and Sciences** .......................................................... 70  
- **The Burnett Honors College** ......................................................... 77  
- **College of Business Administration** ................................................ 79  
- **College of Education** ...................................................................... 83  
- **College of Engineering and Computer Science** ................................. 85  
  - Reserve Officer Training Corps .......................................................... 92  
- **College of Health and Public Affairs** ............................................... 94  
  - Rosen School of Hospitality Management ........................................ 98  
- **UCF Degree Programs** .................................................................... 99  
  - Accounting ....................................................................................... 130  
  - Actuarial Science ............................................................................. 135  
  - Advertising/Public Relations .............................................................. 137  
  - Aerospace Engineering .................................................................... 137  
  - Anthropology ................................................................................... 138  
  - Art ..................................................................................................... 138  
  - Art–Animation Track .......................................................................... 139  
  - Art–Design Track ............................................................................... 139  
  - Art–Studio Track ............................................................................... 139  
  - Art Education ................................................................................... 139  
  - Biology ................................................................................................ 142  
  - Biology–Preprofessional .................................................................... 142  
  - Cardiopulmonary Sciences ................................................................ 143  
  - Chemistry .......................................................................................... 143  
  - Civil Engineering .............................................................................. 144  
  - Civil Engineering–Construction Engineering Concentration .............. 145  
  - Communication Disorders ................................................................ 146  
  - Computer Engineering ....................................................................... 146  
  - Computer Engineering–Software Engineering Concentration .......... 147  
  - Computer Science ............................................................................ 147  
  - Criminal Justice .................................................................................. 147  
  - Digital Media ...................................................................................... 147  
  - Early Childhood Education ................................................................ 148  
  - Economics (B.A. and B.S.B.A.) ............................................................ 148  
  - Electrical Engineering ....................................................................... 149  
  - Electrical Engineering–Microelectronics Concentration .................... 149  
  - Electrical Engineering–Wireless Communication Concentration ........ 149  
  - Electrical Engineering Technology–Computer Systems Concentration .... 149  
  - Electrical Engineering Technology–Electrical Systems Concentration .... 149  
  - Elementary Education ....................................................................... 149  
  - Engineering Technology–Design Concentration .................................. 150  
  - Engineering Technology–Operations Concentration ......................... 150  
  - Engineering Technology–Space Systems Concentration .................... 150  
  - English–Creative Writing ................................................................... 150  
  - English–Literature ............................................................................. 150  
  - English–Technical Writing ................................................................. 150  
  - English Language Arts Education ....................................................... 150  
  - Environmental Engineering ............................................................... 150  
  - Exceptional Student Education ............................................................ 151  
  - Film–B.F.A. Track .............................................................................. 151  
  - Film–Cinema Studies Track ................................................................. 151  
  - Film–World Cinemas Track ................................................................. 151  
  - Finance .................................................................................................. 151  
  - Foreign Language Combination .......................................................... 151  
  - Foreign Language Education–French .................................................. 151  
  - Foreign Language Education–Spanish ................................................ 151  
  - Forensic Science–Analysis Track ......................................................... 151  
  - Forensic Science–Biochemistry Track ................................................ 151  
  - French .................................................................................................. 151  
  - General Business .............................................................................. 151  
  - Health Information Management ...................................................... 151  
  - Health Sciences–Athletic Training Track ............................................. 151  
  - Health Sciences–Generalist Track ....................................................... 151  
  - Health Services Administration ........................................................ 151  
  - History ................................................................................................ 151  
  - Hospitality Management ................................................................... 151  
  - Humanities .......................................................................................... 151  
  - Humanities–Religious Studies Track .................................................... 151  
  - Industrial Engineering ....................................................................... 166  
  - Information Systems Technology ....................................................... 167  
  - Information Technology .................................................................... 167  
  - Interpersonal Communication ............................................................. 167  
  - Journalism .......................................................................................... 167  
  - Legal Studies .................................................................................... 167  
  - Liberal Studies .................................................................................. 167  
  - Liberal Studies–Computer Information Technology Track ................. 167  
  - Liberal Studies–Environmental Studies Track ..................................... 167  
  - Liberal Studies–Liberal Arts Track ...................................................... 167  
  - Liberal Studies–Women’s Studies Track ............................................ 171  
  - Management ..................................................................................... 171  
  - Management Information Systems .................................................... 171  
  - Marketing ............................................................................................ 171  
  - Mathematics–Applied Track ............................................................... 171  
  - Mathematics–Computational Track ................................................... 171  
  - Mathematics–Engineering/Physics Track ......................................... 171  
  - Mathematics–Pure Track .................................................................. 171  
  - Mathematics Education .................................................................... 171  
  - Mechanical Engineering ................................................................... 171  
  - Medical Laboratory Sciences ............................................................ 171  
  - Molecular Biology and Microbiology ............................................... 171  
  - Music .................................................................................................. 171  
  - Music Education ................................................................................ 171  
  - Music Performance .......................................................................... 171  
  - Nursing ................................................................................................ 171  
  - Nursing–RN to BSN Track ................................................................. 171  
  - Nursing–RN to MSN Track ................................................................. 171  
  - Organizational Communication ........................................................ 171  
  - Philosophy .......................................................................................... 171  
  - Physical Education ............................................................................ 171  
  - Physics ................................................................................................ 171  
  - Political Science ............................................................................... 171  
  - Political Science–International Studies Track ..................................... 171  
  - Political Science–Prelaw Track ............................................................ 171  
  - Psychology (B.A. and B.S.) ................................................................. 171  
  - Public Administration ......................................................................... 171  
  - Radio–Television ............................................................................... 171  
  - Radiologic Sciences .......................................................................... 171  
  - Restaurant and Foodservices Management ....................................... 171  
  - Science Education–Biology ................................................................. 171  
  - Science Education–Chemistry ............................................................. 171  
  - Science Education–Physics ................................................................. 171  
  - Social Sciences .................................................................................. 171  
  - Social Science Education ................................................................. 171  
  - Social Work ....................................................................................... 171  
  - Sociology ............................................................................................ 171  
  - Spanish .............................................................................................. 171  
  - Statistics ............................................................................................. 171  
  - Theatre (B.A. and B.F.A.) ................................................................. 171  
  - Theatre–Musical Theatre Track .......................................................... 171  
  - Vocational Education and Industry Training .................................... 171  
  - Minors, Certificates, and Study Abroad ............................................. 228  
  - Accelerated Undergraduate–Graduate Programs .................................. 232  
  - History ................................................................................................ 232  
  - Liberal Studies .................................................................................. 232  
  - Nursing Second Degree B.S.N. Option ............................................. 232  
  - Articulated A.S. to B.S. Degree Programs ........................................... 240  
    - Electrical Engineering Technology .................................................. 240  
    - General Business .......................................................................... 240  
    - Hospitality Management ............................................................... 240  
    - Information Systems Technology ................................................... 240  
    - Liberal Studies–Photography ......................................................... 240  
    - Nursing ............................................................................................ 240  
    - Radiologic Sciences ....................................................................... 240  
    - Sports and Fitness .......................................................................... 240  
  - Common Course Numbering System .................................................. 245  
  - UCF Courses and Descriptions .......................................................... 245  
  - University Faculty and Administrative Officers .................................. 245  
    - Honorary Degrees Awarded ............................................................ 245  
    - Index ............................................................................................... 245
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Dean: Abraham Pizam
Associate Dean: Stephen LeBruto
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<thead>
<tr>
<th>Campus Office/Service</th>
<th>Location</th>
<th>Telephone</th>
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</thead>
<tbody>
<tr>
<td>A.A. Degree Application</td>
<td>Academic Services, MH 210</td>
<td>407-823-2691</td>
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<td>Academic Advising - First Year Students</td>
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<td>Advising for Freshman Declared Majors</td>
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<td>Multicultural Academic and Support Services, MH 145</td>
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<td>Academic Services for Student Athletes, WDSC 123B</td>
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<td>Advising for CAP or PEGASUS Students</td>
<td>Student Academic Resource Center, PH 113</td>
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<td>Academic Exploration Program</td>
<td>PH 104</td>
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<td>WDSC 123B</td>
<td>407-823-5895</td>
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<td>Address Change</td>
<td>College Advising Office, Kiosks, Registrar, MH 161</td>
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<td>Admissions:</td>
<td></td>
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<tr>
<td>Undergraduate</td>
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<td>Graduate Studies, MH 230</td>
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<tr>
<td>Alumni Association</td>
<td>Research Pavilion, PVL 301</td>
<td>407-882-1220</td>
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<tr>
<td>Annual Fund</td>
<td>Research Pavilion, PVL 140</td>
<td>407-249-4740</td>
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<td>Area Campus Locations</td>
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<td>UCF Clermont</td>
<td>1250 N. Hancock Rd., Clermont, FL</td>
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<td>100 Weldon Blvd., Bldg. R, Sanford, FL</td>
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UCF
Campus Services Directory

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UNIVERSITY OF CENTRAL FLORIDA

2003-2004 Undergraduate Catalog
## 2003 - 2004 FALL - SPRING ACADEMIC CALENDARS

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<th>Fall 2003</th>
<th>Spring 2004</th>
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<td>Application deadline for International students</td>
<td>May 1</td>
<td>Aug. 1</td>
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<tr>
<td>Application deadline for all undergraduate applicants and transfers</td>
<td>May 1</td>
<td>Nov. 1</td>
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<tr>
<td>Application deadlines for readmission</td>
<td>July 15</td>
<td>Nov. 14</td>
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<td>Registration and Add/Drop (^1)</td>
<td>April 7-Aug. 22</td>
<td>Oct. 27-Jan. 4</td>
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<tr>
<td>Graduation Application due in college advising office</td>
<td>July 28</td>
<td>Dec. 5</td>
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<td>Residence halls open (11:00 a.m.)</td>
<td>Aug. 22</td>
<td>Jan. 2</td>
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<td>Registration time for State Employees, UCF Employees, Senior Citizens, Non-degree, Transients, STEP and Audits (begins 3:30 p.m.)</td>
<td>Aug. 22</td>
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<td>Classes begin</td>
<td>Aug. 25</td>
<td>Jan. 5</td>
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<td>Late Registration (^2) and Add/Drop (^1)</td>
<td>Aug. 25-29</td>
<td>Jan. 5-9</td>
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<td>Last day for full refund (^1)</td>
<td>Aug. 29</td>
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<td>Grade Forgiveness deadline (^1)</td>
<td>Aug. 29</td>
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<td>Last day to mail payment (postmarked)</td>
<td>Sep. 5</td>
<td>Jan. 16</td>
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<td>Payment Deadline (^2)</td>
<td>Sep. 6</td>
<td>Jan. 17</td>
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<td>Oct. 17</td>
<td>Feb. 27</td>
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<td>VA deferral payment deadline</td>
<td>Nov. 21</td>
<td>April 2</td>
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<td>Classes end; last day to remove incomplete (^3)</td>
<td>Dec. 5</td>
<td>April 19</td>
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<td>Final Examination Period</td>
<td>Dec. 6-12</td>
<td>April 20-26</td>
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<td>Residence halls close (noon)</td>
<td>Dec. 13</td>
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<td>Commencement</td>
<td>Dec. 15-16</td>
<td>April 30-May 1</td>
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<td>Grades due in Registrar's Office</td>
<td>Dec. 17</td>
<td>April 29</td>
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<tr>
<td>Grades Available on POLARIS (begins 9:00 a.m.)</td>
<td>Dec. 18</td>
<td>April 30</td>
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**NOTE:** Dates are subject to change. Consult the Schedule Web Guide and online Academic Calendar ([www.ucf.edu/toplinks/academic_calendar.html](http://www.ucf.edu/toplinks/academic_calendar.html)) for information.

All undergraduate degree-seeking students are required to attend Orientation prior to enrollment. 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
\(^2\) $100 fee applies to students who have not previously registered or paid fees by the due date
\(^3\) Incomplete grades must be removed within one year of the award date prior to graduation from the University, whichever comes first, else they will change to “F.”

### 2003-04 University Holidays and Special Dates

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<td>Homecoming Week*</td>
<td>October 20-25, 2003</td>
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<td>Veteran's Day Holiday</td>
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<td>Thanksgiving Holiday</td>
<td>November 27-30, 2003</td>
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<td>Martin Luther King Jr. Holiday</td>
<td>January 19, 2004</td>
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<tr>
<td>Spring Break - Holiday</td>
<td>March 8-13, 2004</td>
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<td>Founder's Day Honors Convocation*</td>
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</tr>
<tr>
<td>Memorial Day Holiday</td>
<td>May 31, 2004</td>
</tr>
<tr>
<td>Independence Day Holiday</td>
<td>July 5, 2004</td>
</tr>
</tbody>
</table>

*Classes will be held
## SUMMER 2004 ACADEMIC CALENDAR

<table>
<thead>
<tr>
<th>Event</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 International students</td>
<td>March 1</td>
<td>March 1</td>
<td>March 1</td>
<td>March 1</td>
</tr>
<tr>
<td>Application deadline for all undergraduate 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 15</td>
<td>April 15</td>
<td>April 15</td>
<td>April 15</td>
</tr>
<tr>
<td>Registration and Add/Drop¹</td>
<td>Mar 15 - May 9</td>
<td>Mar 15 - May 9</td>
<td>Mar 15 - May 9</td>
<td>Mar 15 - May 9</td>
</tr>
<tr>
<td>Graduation Application due in college</td>
<td>April 19</td>
<td>April 19</td>
<td>April 19</td>
<td>April 19</td>
</tr>
<tr>
<td>Residence halls open</td>
<td>TBA</td>
<td>TBA</td>
<td>TBA</td>
<td>TBA</td>
</tr>
<tr>
<td>Registration time for State Employees, UCF Employees, Senior Citizens, Non-degree, Transients, STEP and Audits (begins 3:30 p.m.)</td>
<td>May 7</td>
<td>June 18</td>
<td>May 7</td>
<td>May 7</td>
</tr>
<tr>
<td>Classes begin</td>
<td>May 10</td>
<td>June 21</td>
<td>May 10</td>
<td>May 10</td>
</tr>
<tr>
<td>Late Registration and Add/Drop¹</td>
<td>May 10-14</td>
<td>June 21-25</td>
<td>May 10-14</td>
<td>May 10-14</td>
</tr>
<tr>
<td>Fees due³, Last day for full refund³</td>
<td>May 4</td>
<td>May 14/June 25</td>
<td>May 4</td>
<td>May 4</td>
</tr>
<tr>
<td>Grade Forgiveness deadline³</td>
<td>May 4</td>
<td>June 25</td>
<td>May 4</td>
<td>May 14</td>
</tr>
<tr>
<td>Withdrawal deadline³</td>
<td>May 28</td>
<td>July 9</td>
<td>June 18</td>
<td>June 9</td>
</tr>
<tr>
<td>VA deferral payment deadline</td>
<td>July 16</td>
<td>July 16</td>
<td>July 16</td>
<td>July 16</td>
</tr>
<tr>
<td>CLAST Test</td>
<td>June 5</td>
<td>June 5</td>
<td>June 5</td>
<td>June 5</td>
</tr>
<tr>
<td>Classes end; last day to remove incomplete⁴</td>
<td>June 18</td>
<td>July 30</td>
<td>July 30</td>
<td>July 9</td>
</tr>
<tr>
<td>Final Examination Period</td>
<td>June 18</td>
<td>July 30</td>
<td>July 30</td>
<td>July 9</td>
</tr>
<tr>
<td>Residence halls close (noon)</td>
<td>June 19</td>
<td>July 31</td>
<td>July 31</td>
<td>July 10</td>
</tr>
<tr>
<td>Grades due in Registrar's Office</td>
<td>June 23</td>
<td>August 4</td>
<td>August 4</td>
<td>July 14</td>
</tr>
<tr>
<td>Grades Available on POLARIS (begins 9:00 a.m.)</td>
<td>June 24</td>
<td>August 5</td>
<td>August 5</td>
<td>July 15</td>
</tr>
<tr>
<td>Commencement</td>
<td>July 31</td>
<td>July 31</td>
<td>July 31</td>
<td>July 31</td>
</tr>
</tbody>
</table>

### Summer 2004 University Holidays and Special Dates

- **Memorial Day Holiday**: May 31, 2004
- **Independence Day Holiday**: July 5, 2004

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**NOTE:** Dates are subject to change. Consult the Schedule Web Guide and online Academic Calendar ([www.ucf.edu/toplinks/academic_calendar.html](http://www.ucf.edu/toplinks/academic_calendar.html)) for information.

All undergraduate degree-seeking students are required to attend Orientation prior to enrollment. 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 3/15- 5/14 / Summer B payment deadline for all students who register 5/15 - 6/25
3 $100 fee applies to students who have not previously registered or paid 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.”

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12 UNIVERSITY OF CENTRAL FLORIDA 2003-2004 Undergraduate Catalog
Academic Behavior Standards

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

- Cheating, whereby non-permissible written, visual, or oral assistance including that obtained from another student is utilized on examinations, course assignments, or projects. The unauthorized possession or use of examination or course related material may also constitute cheating.

- Plagiarism, whereby another’s work is deliberately used or appropriated without any indication of the source, thereby attempting to convey the impression that such work is the student’s own. Any student failing to properly credit ideas or materials taken from another has plagiarized.

Note: A student who has assisted another in any of the aforementioned breaches 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

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 your permanent and mailing (local) addresses and telephone number, are current with the University at all times.

Students can update their contact information on-line at https://connect.ucf.edu
Mission Statement
The University of Central Florida is a major metropolitan research university whose mission is to deliver a comprehen-
sive program of teaching, research, and service. It provides intellectual leadership through quality undergraduate and graduate programs. It proudly identifies with its geographic region while striving for nation-
al and international excellence in selected programs of teaching and research. It serves students who are diverse in age, ethnic, and racial identity, and socioeconomic background. It supports the cultural vitality of our region, serves as a major intellectual and creative resource, develops creative partnerships with public and private enter-
prise, and participates fully in the economic development of Florida.

UCF offers undergraduate education rooted in the arts and sciences, providing a broad liberal education while developing competence in fields of special interest. Unique aspects of UCF’s approach are its commitment to educate students for a world in which cooperation is as important as competition; in which societal and environmental impacts of new developments are as important as their technical merits; and in which technology, the arts, sciences, humanities, and commerce work together to shape the future.

The complexity of modern society requires comprehensive graduate and professional programs. UCF provides advanced education that matches institu-
tional strengths with evolving regional, state, national, and international needs. It supports these advanced programs by recruiting excellent students, faculty, and staff and by supplying the infrastructure that enables these programs to achieve national prominence.

Basic and applied research, as well as creative activity, are integral parts of a quality education. UCF faculty members are scholar-teachers. As such, they create new knowledge, new points of view, and new means of expression in a broad range of academic, professional, and socially significant areas. Their creativity fosters innovation as they convey their results, methods, values, and expressions to students, colleagues, and the public.

UCF works actively to build part-
nerships that promote develop-
ment of Central Florida’s econo-
my through carefully targeted programs of graduate study and research. The I-4 High-Technology Corridor Council, whose goal is to attract, retain and expand high technology investment and jobs, is but the latest example of UCF’s collaboration with partners from industry, state and local government, and higher education.

Service to its community is an important extension of the metropoli-
tan mission of the University. Public service is prominent at UCF, with the University developing partnerships with the community to enrich the educational, artistic, cultural, economic, and profession-
al lives of those it serves in Central Florida and beyond.

Education is more than classroom experience. UCF students are involved in cooperative research and participate in artistic, social, cultural, political, and athletic activities. UCF provides academic diversity by bringing to its campus national and international leaders who expose students and the community to a wide range of views and issues. UCF achieves cultural diversity by using its multi-campus facilities to serve a diverse population of traditional and non-tradition-
al students from various races, cultures, and nationalities.

UCF is committed to the free expression of ideas, the equality of all people, and the dignity of the individual.

Accreditation
The University of Central Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (1866 Southern Lane, Decatur, Georgia 30033-4087; Telephone number 404-679-4501) to award degrees at the associate, baccalaureate, master’s, and doctoral levels. At the undergraduate level, the follow-
ing programs (disciplines) have been granted accreditation:

College/Discipline
Arts and Sciences

Accrediting Body
American Chemical Society (ACS)

Music
National Association of Schools of Music (NASM)

Business Administration
The International Association for Management Education (AACSB)

Education
State Accreditation-Florida Department of Education; National Council for Accreditation of Teacher Education (NCATE)

Engineering and Computer Science
Aerospace, Civil, Computer, Electrical, Environmental, Industrial, and Mechanical Engineering

Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET)

Computer Science
Computing Accreditation Commission (CAC) of ABET

Engineering Technology (Electrical Engineering Technology and Engineering Technology)
Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET)

Health and Public Affairs
Athletic Training
Joint Review Committee on Educational Programs in Athletic Training (JRC-AT) in conjunction with the Commission on Accreditation of Allied Health Education Programs

Cardiopulmonary Science
Committee on Accreditation for Respiratory Care in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAHHEP)

Health Information Management
American Health Information Management Association (AHIMA) in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAHHEP)

Medical Laboratory Sciences
National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)

Nursing
American Association of Colleges of Nursing/ Commission on Collegiate Nursing Education (CCNE), National League for Nursing Accrediting Commission (NLNAC), 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 (ACPHA)

UCF is listed in Transfer Credit Practices on Designated Educational

14 UNIVERSITY OF CENTRAL FLORIDA 2003-2004 Undergraduate Catalog
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
Founded in 1963, the University of Central Florida is one of the fastest growing metropolitan research universities in the country. As central Florida’s higher-education partner, UCF plays a major role in the region’s fast-paced growth through its community and corporate partnerships, its research programs, and the talents of its 115,000 alumni, nearly 40,000 students and 5,408 faculty and staff. The 1,415-acre Orlando main campus contains state-of-the-art wireless classrooms and modern student facilities. All UCF students have access to the Internet. The University has been recognized nationally as one of the most “wired” campuses in the nation, and offers a growing on-line distributed learning program. More than 268 web courses are offered, with an enrollment of more than 13,000. UCF offers 79 bachelor’s degrees, 62 master’s degrees, and 21 Ph.D. degrees, as well as 82 graduate certificate programs.

UCF today is known locally as the university that is "Under Construction For All," providing new programs and facilities, with equal thought and determination, that are setting new standards for learning and teaching environments and opportunities. Major construction projects totaling nearly $200 million, underway or recently completed, include the Academic Village Residence Complex; an addition to the Biology Science Building; Health and Public Affairs II; Business Administration II; the four-story UCF Academy for Teaching, Learning and Leadership, the Wayne Densch Sports Center; and the 84,500-square-foot Recreation Center. Engineering II added significant facilities to the University’s world-renowned engineering program: a 107,000-square-foot, high-tech wireless facility featuring the 5,000-square-foot Harris Corporation Computer Laboratory; and two three-story laboratories for simulation and structures. The Rosen School for Hospitality Management, currently under construction, is a 92,000-square-foot building/campus complete with 22 classrooms, working kitchens and computer laboratory, dining room and a 400-seat performance theatre and auditorium, located on a 20-acre site in the heart of Central Florida’s tourist corridor.

The UCF main campus is located 13 miles east of the city of Orlando, 45 miles from the Atlantic Ocean and Cape Kennedy, and 100 miles from Tampa and the Gulf of Mexico. The area boasts world-level shopping and dining, lakes, golf courses, jogging trails, nature preserves and parks.

Online@UCF, The Virtual Campus
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 the nontraditional and campus-based student. 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://connect.ucf.edu/) by the Instruction Mode found on the class detail panel for each class. Web-related instruction modes are ENHANCED WITH MEDIA/EMAIL (E); These courses are recognized to be enhanced with the World Wide Web or other electronic media-based materials. These courses do not reduce seat time.

MIXED-MODE/REDUCED SEAT TIME (M): These courses require electronic media-based instruction that substitutes for some classroom time (reduced seat time). Students must have access to the Internet, a web browser such as Internet Explorer, ability to use e-mail, and basic computer skills such as word processing.

WORLD WIDE WEB (W): These courses are delivered entirely over the Internet. Students must have access to the Internet, a web browser such as Internet Explorer, ability to use e-mail, and basic computer skills such as word processing.

Students who plan to enroll in any course with a web component must have access to the Internet, a web browser such as Internet Explorer, basic web-browsing knowledge, ability to use e-mail, and basic computer skills such as word processing. Refer to the Learning Online website (http://reach.ucf.edu/~coursdev/learning/) for additional information.

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.

UCF Area Campuses
Academic programs are not only offered on the Orlando campus; the University of Central Florida offers a number of programs through the UCF Area Campus System. Strategically located within an 80-mile radius of the UCF Orlando campus, the 21 non-residential system sites partner with six Florida community colleges, fostering seamless and convenient advancement from completion of an AA and limited AS degrees to upper-level division work on a baccalaureate degree. Available programs include 28 Bachelor’s programs, 27 minors and certificates, 17 master’s degrees, 11 Graduate Certificates, and 1 Doctoral program offered throughout the area campus system. Each of the UCF Colleges is represented within the system. With close proximity to Orlando, resources are available at UCF and the UCF Area Campuses, such as admissions, registration, financial aid, advising, student clubs and organizations, disability services, veterans’ affairs, “Smart Classrooms,” libraries, computer labs, and more.

The UCF Area Campus System serves an 11-county service area, which includes Brevard, Citrus, Flagler, Lake, Levy, Marion, Osceola, Orange, Seminole, Sumter and Volusia Counties. UCF Area Campus locations are comprised of a system of campuses, centers and sites and provide a wide variety of learning styles and schedules, including web class availability. Full service campuses include several full-time resident faculty and staff, provide extensive student services, and offer full programs and courses on a continuous basis. Centers include full-time resident faculty and staff, offer full programs and courses on a regular basis, and may provide minimal student services. Instructional sites offer full programs and/or courses on a regular or irregular basis and may have minimal staff. For the most current information on any of the 21 UCF Area Campus locations, and to find the locations with directions, check the website at www.areacampuses.ucf.edu.

Admissions, Registration and Advising personnel are available at UCF Clermont, UCF Cocoa, and UCF Daytona Beach. Times and dates for all courses are listed on-line prior to registration each term and all registration periods correspond to the UCF overall schedule. To get the current program listings, check www.areacampuses.ucf.edu/areaprograms.htm. Check www.areacampuses.ucf.edu/areaclassschedules.html for the most current course listings for the upcoming semester.

UCF Area Campus System
Vice Provost, UCF Area Campuses Director, Academic Programs
Michael J. Sweeney William J. Wetherell
Assistant Associate Director, University Relations
Associate Director, Library Services
Charles D. McQuillen
Karen Jans
Mem Stahl
Judith Boyle
Jeanne Wilter
Barbara Smith
Special Projects Director
Coordinator, Academic Programs
Instructional Facilities Scheduler

Eastern Region:

UCF Daytona Beach (Full Service Campus)
1200 W. International Speedway Blvd.
Daytona Beach, FL 32114

UCF DeLand (Center)

UCF Deltona (Instructional Site)

UCF Flagler (Instructional Site)
Degree programs currently offered in the Eastern Region:

Undergraduate Degree Programs

College of Arts and Sciences; 386-254-4412
- Digital Media
- Liberal Studies
- Political Science
- Psychology
- Social Science
- Sociology

College of Business Administration; 386-254-4412
- General Business Administration (A.A. to B.A., A.S. to B.S.)
- Management
- Marketing

College of Education; 386-254-4428
- Early Childhood Education
- Elementary Education
- Exceptional Education
- Social Science Education
- Vocational Education (Web-based)

College of Engineering and Computer Science; 386-255-7423
- Engineering (Partial/Video)

College of Health and Public Affairs; 386-254-4412
- Criminal Justice
- Health Sciences
- Health Services Administration
- Legal Studies
- Nursing (RN-BSN); 386-254-4428

Undergraduate Minors and Certificates:
- Anthropology in Multicultural Studies
- Behavioral Forensics (Certificate)
- Business (Non-business majors)
- Criminal Justice
- Digital Media (Certificate)
- English – Technical Writing
- Environmental Studies
- Exceptional Education
- Forensic Science
- Gerontology
- Health Sciences
- Health Services Administration
- History
- Legal Studies
- Marketing
- Philosophy
- Political Science
- Political Science (Pre-law track)
- Public Administration
- Psychology
- Religious Studies
- Sociology
- Social Science – Interdisciplinary
- Theater (General)
- Women’s Studies (Minor & Certificate)

Graduate Degree Programs; 386-255-7423
- Business Administration (MBA)
- Criminal Justice
- Educational Leadership
- Educational Media (Web-based)
- Elementary Education
- Engineering (Video)
- Exceptional Education
- Health Services
- Liberal Studies
- Nursing (RN-MSN)
- Psychology (M.A. Clinical)
- Public Administration
- Social Work (MSW)
- School Counseling (Certification)
- Vocational Education (Web-based)

Graduate Certificate Programs; 386-255-7423
- Corrections Leadership
- Domestic Violence
- English (Writing Track)
- English Professional Writing
- ESOL Endorsement
- Juvenile Justice Management
- Public Administration

Doctoral Program
- Educational Leadership

Southern Region

UCF Cocoa (Full Service Campus)
- 1519 Clearlake Rd.
- Cocoa, FL 32922

UCF Kennedy Space Center (Center)
UCF Melbourne (Center)
UCF Palm Bay (Center)
- For information: 321-632-0067

Undergraduate Degree Programs

College of Arts and Sciences; 321-632-1111, Ext. 65545
- History
- Liberal Studies
- Political Science
- Psychology
- Sociology

College of Business; 321-632-1111, Ext. 65592
- General Business Administration (A.A. to B.A., A.S. to B.S.)
- Management

College of Education; 321-632-1111, Ext. 65575
- Early Childhood Education
- Elementary Education
- English Language Arts Education
- Exceptional Education
- Social Science Education
- Vocational Education (Web-based)

College of Engineering and Computer Science; 321-632-1111, Ext. 65556
- Engineering Technology-Operations
- Information Systems Technology

College of Health and Public Affairs; 321-632-1111, Ext. 65586
- Communicative Disorders
- Criminal Justice
- Health Services Administration
- Legal Studies
- Nursing, Generic BSN
Undergraduate Minors and Certificates

- Anthropology in Multicultural Studies
- Business (Non-business majors)
- Communicative Disorders
- Criminal Justice
- Exceptional Education
- Health Services Administration
- History
- Legal Studies
- Organizational Communication
- Political Science
- Psychology
- Public Administration
- Religious Studies
- Social Science - Interdisciplinary
- Sociology
- Women’s Studies (Minor & Certificate)

Graduate Programs

- Applied Sociology
- Business Administration (MBA)
- Criminal Justice
- Health Services Administration
- Educational Leadership
- Engineering FEEDS/ITV
- Elementary Education
- Exceptional Education
- Industrial Engineering and Management
- Public Administration
- Vocational Education (Web-based)

Graduate Certificates

- Domestic Violence
- ESOL Endorsement
- Initial Teacher Preparation
- Nonprofit Management
- Pre-K Handicap Endorsement
- Public Administration
- TEFL Certificate

Doctoral Program:

- Educational Leadership

Central Region

UCF Downtown (Center)
26 West Pine St.
Orlando, FL 32801

UCF Celebration (Instructional Site)

UCF Kirkman Rd (Center)

UCF Ocoee (Instructional Site)

UCF Osceola (Instructional Site)

UCF South Orlando (Center)

Information: 407-317-7700

Assistant Vice-President, Central Region Director
Cecelia H. Rivers

Central Region Associate Director
Edgar Martinez

The Central Region provides students with the opportunity to enroll in selected courses leading to undergraduate (junior and senior level) and graduate degrees in a variety of disciplines within the colleges of Arts and Sciences, Business Administration, Health and Public Affairs, Education, and Engineering and Computer Science. For the most current listings, view the website at www.areacampuses.ucf.edu/areaprograms for academic programs or www.areacampuses.ucf.edu/areaclassschedules.html for class schedule listings.

Western Region

UCF Clermont (Full Service Campus)
1250 N. Hancock Rd.
Clermont, FL 34711

UCF Chiefland (Instructional Site)

UCF Lecanto (Instructional Site)

UCF Leesburg (Instructional Site)

UCF Ocala (Center)

UCF Sanford/Lake Mary (Center)

UCF Sanford/Lake Mary (Instructional Site)

For information: 352-536-2113

Western Region Director
David Meador

Western Region Associate Director
Bernard Jensen

Admissions /Registration Officer
Tanya Armstrong

Academic Support Services
Ivy Johnson, Debbie Phillis

Selena Forrester
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. UCF presently has ten fully-funded endowed chairs and two others fully pledged:

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

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 Carl H. Galloway Chair for Excellence in Business.

Central Florida community.

Created in 1986 to enable UCF to design and oversee programs covering art administration, art therapy, and art education within the Central Florida community.

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

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, room 338F.

Appointments may be made by calling 407-823-6440.

Office of Undergraduate Studies

Dean: John F. Schell, MH 311, 407-823-4197

This office supports the undergraduate mission of the University, assisting the curriculum development and review, co-curricular planning and programming, and the effectiveness of units and faculty in their effort to provide outstanding undergraduate education.

Academic Services

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

This office is responsible for administering the University of Central Florida 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, faculty, and staff and to maintain accurate and effective computer records for advisement and graduation certification.

UCF Public Safety and Police

The UCF Police Department is a full-service law enforcement agency. The 40 certified police officers provide police services twenty-four hours a day, seven days a week. The Patrol Division (407-823-5283) patrols the campus on foot, marked patrol cars, and on marked motorcycles. They are supplemented by additional police officers, who patrol the campus on mountain bikes. The Investigations Unit (407-823-5980) consists of four detectives who investigate all unresolved criminal cases.

The Community-Oriented Policing Division (407-823-2165) presents crime prevention seminars for property protection and personal safety for the community. The Community Prevention Unit also supervises the Community-Oriented Policing program (COP), which consists of two officers assigned to campus zones. These officers work closely with the faculty, staff, and students in a police/community partnership to reduce crime concerns in their zones. Furthermore, the Crime Prevention Unit also hires and trains students for the Student 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 (407-823-6332/6069) 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. For more information see their website at http://parking.ucf.edu.


Information Technologies and Resources

Vice Provost: Joel L. Hartman, MH 350; Phone 407-823-6778 http://reach.ucf.edu/itr

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, and Course Development and Web Services. The services and resources of each unit are described in the following sections.

University Libraries

Director: Barry B. Baker; LR 512; 407-823-2564; http://library.ucf.edu

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

The main University Library houses a collection of more than 1.4 million print volumes, including 11,900 current serial subscriptions. In addition to bound volumes, the Library owns approximately 2.3 million microforms and 35,000 media titles. UCF is a partial depository for both United States and Florida government publications. The Library is open approximately 103 hours per week, including evenings and weekends. Current hours are available on the web site at http://library.ucf.edu/administration/calendar.htm or by calling 407-823-2756.

More than 200 computer workstations are available for public use on all five floors of the University Library. Included in this total are 20 laptops equipped with wireless cards that may be checked out for use anywhere in the Library building. Patrons who have laptops with wireless cards also can bring their own computers to the Library and connect to the Library’s electronic resources and to the Internet from anywhere in the building. The Library also has two classrooms outfitted with 41 computer workstations for hands-on instruction in the use of electronic resources.

WebLUI S, the Library’s web-based catalog, can be accessed from any public as well as home PC. WebLUI S also offers a gateway to hundreds of electronic databases, the catalogs of other state university system 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 to assist with interpreting the online catalog (holdings and locations), as well as with electronic reference sources and other library collections. Librarians are on duty to assist in the use of the online catalog (WebLUI S), electronic reference sources, and other library collections. Assistance also is available through the "Ask a Librarian" service, by telephone at 407-823-2562, or at http://library.ucf.edu/ASK.

The Interlibrary Loan and Document Delivery Services Department (ILL) assists students in obtaining materials not owned by the Library. Most book loans and photocopied materials can be acquired free of charge within two weeks. Request forms are available on the ILL web site at http://library.ucf.edu/ILL, or at the ILL Office (room 221). For more information, call 407-823-2383 during office hours, or visit the ILL web site.

Special services are provided for people with disabilities. By using WebLUI S, students can determine the availability of books they need and telephone the Library to request that books be retrieved from the shelves and brought to them at the circulation desk. A Kurzweil reading machine is available in the Library for people with visual impairments; students can arrange for instruction in its use. Through the cooperation of the University’s Office of Student Disability Services, the Library staff will aid disabled students in obtaining special equipment they may need to use Library resources.

The Curriculum Materials Center, a unit of the University Library, is located in the Student Union building. The CMC houses approximately K-12 educational curriculum materials for preview, review, analysis, and circulation. The facility serves primarily the students and faculty of the College of Education (COE); however, it 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 407-823-2791.

Additional library collections are available at the Brevard Community College/University of Central Florida Joint Use Library in Cocoa and the Daytona Beach Community College Library in Daytona Beach. At both locations, the University partners with the local community college to provide complete information services, including materials processing and checkout. Both locations have electronic access to LUI S and to University resources on the web. Counter and intercampus loan services make the main library’s collections available to UCF students at all area campus sites. For more information see the web site at http://library.ucf.edu/branch_campuses/default.htm.

Computer Services and Telecommunications
Director: William H. Branch; CSB 305; 407-823-2711

Computer Services and Telecommunications provides central support for administrative data processing, academic computing support, telecommunications networks, e-mail, campus telephone services, training, user help, and microcomputer sales and support.

Academic computing is supported primarily through the following facilities: Sun Enterprise 8000, 9800, SXXX systems, Novell N file servers, and other Internet and campus facilities. Four public access PC labs, available to all faculty and students, are located around campus. Two labs are in Computer Center II: Main Lab West (CCII 104) and Main Lab East (CCII 113). The other labs are located in the following buildings: Classroom 1 (CLI 101) and Magruder lab in Business Administration (BA 148). UNIX equipment is available in CCII-113. Most labs are open seven days a week with extended hours. The CybergKnight Center is located in CCII to assist students with computer and internet needs.

Online access to registration, grades, and financial aid information services are available from POLARIS (https://connect.ucf.edu/). Campus kiosk workstations are available in the following buildings: Millican, Library, Business Administration, College of Health and Public Affairs, Computer Science, Colburn, Howard Phillips, Bookstore, Education, Communication, Visual Arts, Math/Physics, Biology, Chemistry, Engineering, CREOL, and Downtown, Daytona, and Cocoa Campuses. Additional information is available online at http://www.it.ucf.edu/. Computer accounts are provided to all students, faculty, and staff for access to e-mail, public computer labs, and the campus backbone network.

The University also operates a full service, on-campus computer store (Student Union) that provides the UCF community computing products and services that adhere to campus standards. The store is an authorized campus reseller for Dell, Apple, IBM, Microsoft, and other major brands. Training classes and computer equipment maintenance services are also available from the store.

Main campus telephone services are provided by the Teledata Services Department. Campus residents have the option to subscribe to voicemail and access to the long distance carrier of their choice. AT&T is the primary long distance provider to the campus.

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 media, webcasting, ISDN video conferencing, video streaming, video over IP, interactive course delivery, multimedia production, audio production, photography, graphics, and a full range of multimedia classroom support services. OIR manages UCF’s interactive video network, which includes eight origination rooms on the main campus and sixteen receiving rooms at branch campus locations. OIR’s facilities include the Digital Image Processing Lab (DILP), located in the Research Pavilion (Suite 169) in the Central Florida Research Park. In association with its community partners, DILP 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 (CL 202) provides multimedia production and training resources for faculty using Macintosh and Windows personal computer systems. OIR’s Interactive Video Classroom (CL 320) is used for videoconferencing and ITV course origination. OIR also provides faculty with an excellent location for training in ITV production and delivery skills. OIR also supports more than 170 advanced multimedia classrooms and eight interactive video origination classrooms located throughout the campus. Multimedia equipment for classroom use may be checked out from Multimedia Classroom Support (CL 215) 407-823-2574.

OIR provides UCF with a full array of distributed-learning delivery systems, including an interactive video network that serves eight rooms on the main campus; the Orlando Downtown Center; the branch campuses and centers at Cocoa, Daytona, UCF South Orlando, Palm Bay; Valencia Community College-West; Clermont; and other off-campus locations. OIR’s Interactive Video Room also provides faculty with an excellent location for training in ITV production and delivery skills.

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

Course Development and Web Services (CDWS) supports major institutional Web initiatives, including online learning (http://reach.ucf.edu), UCF’s main web site (http://www.ucf.edu), web portal applications, and special projects such as the Online@UCF Website (http://online.ucf.edu), the AskUCF online Q and A service (http://ask.ucf.edu), and the UCF virtual tour (http://www.ucf.edu/vtour). CDWS brings to these projects extensive production resources and staff skilled in project management, instructional design, digital media, video, new media, and Web programming.
CDWS also provides professional development activities for faculty and staff. Examples include IDL6543 (http://reach.ucf.edu/~idl6543), ADL5000 (http://reach.ucf.edu/~adl5000), WebCT Academy (http://reach.ucf.edu/~webct411), and the Web Development Academy (http://reach.ucf.edu/~webdev).

CDWS provides student support through the Learning Online Web site (http://reach.ucf.edu/learn), and by producing the Pegasus Disc CD-ROM, which is distributed to all incoming students and faculty (http://reach.ucf.edu/~coursdev/cdrom/pegasus.htm). Students also play an active role in supporting CDWS projects. A student Web programming team called the Technangers builds online courses and other Web projects and also conducts Web-related research and development activities.

CDWS also develops systems and standards to support campus Web Development, and schedules events of interest to the campus Web Community.

Intercollegiate Athletics

Programs in Intercollegiate Athletics are coordinated by athletics department coaches and staff under the general supervision of the Director of Athletics. 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 county, 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 enrolling 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 2001 students is 81.0 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, lectures, and other sporting and entertainment events. Please visit our website at www.arena.ucf.edu. For event or rental information, call 407-823-3070.

University Bookstore

The UCF Bookstore, located in 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://ucf 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 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. Route maps may be obtained through the Parking Services web page at http://parking.ucf.edu.

The Orlando-UCF Shakespeare Festival

The Orlando-UCF Shakespeare Festival is Central Florida’s professional classical theater, presenting professional artists in a variety of world-class plays. The Festival provides a year-round calendar of entertainment and educational programs. An Equity company, the Festival presents a fall season of plays at the John and Rita Lowndes Shakespeare Center and the spring repertory season at the Walt Disney Amphitheater in Lake Eola Park.

In its eleventh season, the Festival has achieved a position of national recognition, attracting artists from around the world. The festival has been featured in such national publications as Southern Living, Theater Week, Backstage, and Southern Theater. Among the Festival’s educational programs are: ‘The Young Company,’ "Shakespeare Alivel," and "Shakespeare experience." Internships and independent studies with the Festival for UCF students and alumni are available in all departments. For more information, contact Artistic Director Jim Helmsinger, 812 East Rollins #100, Orlando, Florida 32803, 407-893-4600, Fax 407-893-5643.

The UCF Alumni Association

The University of Central Florida Alumni Association was developed to maintain awareness and support of the University by its alumni. While alumni comprise the core member group, membership in the UCF Alumni Association is available for all phases of UCF life. For children up to age 12, we have the Junior Jousters Program. UCF students can join 4EVER KNIGHTS, offering them valuable interaction with alumni. For parents of UCF students, we offer a Parent Membership to the Alumni Association.

Membership in one of the UCF Alumni Association programs provides many benefits, including:

- More than 60 money-saving discounts, from buying UCF logo merchandise to saving money at thousands of hotels and on car rentals across the country.
- Social and networking opportunities at Networking Knights, AlumKnight Outs, cultural events, pre-game events, KnightFest, community service projects, travel getaways and road trips.
- Career services through a partnership with iplacement, which offers a career search program that gives alumni easy, 24-hour access to timely employment information online.
- Members-only access and discounts to several UCF facilities such as the new Recreation and Wellness Center, borrowing privileges at the UCF Library and room rental savings at 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 members-only areas of www.ucfalumni.com our web site.

The 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; 407-UCF-ALUM (823-2586); 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 56 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.
Division of Student Development and Enrollment Services

Vice President for Student Development and Enrollment Services:
Thomas Huddleston, Jr.; MH 282; 407-823-2226

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 and complement the educational mission of the University while simultaneously improving the student’s total collegiate experience.

The Vision of SDES is “Adding Value to the UCF Experience!” The Division is committed to its mission of building and strengthening student enrollment. This is achieved by providing an optimal student learning environment characterized by excellent customer service, diversity, inclusiveness, partnerships and needed programs, activities, and facilities that add value to the UCF experience.

The division has three primary functions that include transition, support services and personal growth of students. The division administers programs involving orientation, advisement and academic exploration, registration and admissions, financial assistance, multicultural services, personal counseling, housing, health services, career and personal development, campus life facilities, recreation services, student activities and organizations, special student services, and a variety of academic development and retention programs.

Key values within the operation of the division include caring, commitment, collaboration, diversity, excellence, honesty, inclusiveness, innovation, integrity, loyalty, respect and trust.

The efforts of SDES to meet its mission and objectives will be measured by enrollment quality, student retention, customer satisfaction and student success. These primary outcomes will contribute to creating a competitive advantage for the individual.
Division Of Student Development And Enrollment Services

Academic Development and Retention
Associate Vice President: Maribeth Ehasz; MH 210; 407-823-2691
The Unit of Academic Development and Retention (ADR) enhances student retention through the collaborative delivery of operationally excellent services, information, data, and technology that facilitate enrollment, registration, transition, career and major exploration, academic success, personal development, and career opportunities for successful progression through graduation. For additional information on all of our offices, visit ADR’s website at http://sdes.ucf.edu/adr.

Academic Services for Student-Athletes (ASSA)
Director: Karl P. Mooney; WDS Center 123B; 407-823-5895
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; and
- Preparing student-athletes in their career planning and development.
For more information, please visit the ASSA website at http://assa.ucf.edu.

First Year Transitions (FYT)
Assistant Vice President: Mark Allen Poisel; PH 216; 407-823-2137
The Unit of First Year Transitions provides seamless articulation and necessary support to motivate and encourage first year students to more effectively transition into their new UCF environment while minimizing threats to their success. Through outreach, collaboration, and coordination, this unit coordinates the offices of First Year Advising and Exploration, Orientation Services, and Transfer Services. A strong common component of First Year Transitions is the Academic Exploration Program for undeclared students and major changers. For more information, visit FYT’s website at http://firstyear.sdes.ucf.edu.

Academic Exploration Program (AEP)
407-823-5322
The Academic Exploration Program has been developed to provide structured experiences to assist students in selecting a career and major. The program has several components including coordinated academic advising services from a first year advising office, the EXCITED online system, and activities through a program called Golden Opportunities Center offered by the Career Resource Center to those first year students who enter the University of Central Florida not having selected an academic major. For more information, visit AEP’s website at http://aep.sdes.ucf.edu.

First Year Advising and Exploration (FYAE)
Director: Robert E. Snow, PH 116; 407-823-3789
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 who are 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) are provided focused advising support services to assist in the major selection process.
To fulfill this mission, the office focuses its efforts on providing proactive advising support, serving as a centralized source of academic information, conducting personalized advising and academic services, establishing early and regular communication, providing outreach advising activities for freshmen residing in both on- and off-campus facilities, and tracking the academic progress and success of its target student population. Each freshman is assigned to a specific academic advisor. In addition, high school students admitted to UCF as part of the Early Admission or Dual Enrollment programs are advised and academically supported through this office. For further information, visit Phillips Hall room 116, or our website at http://firstyear.sdes.ucf.edu.

Orientation Services
Assistant Director: Joe Ritchie; PH 218; 407-823-5105
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 Web site at http://orientation.sdes.ucf.edu.

Transfer Services
Assistant Director: Charlene Stinard; PH 102; 407-823-2231
The Office of Transfer 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;
- Current information about university programs and policies including entrance and exit requirements;
- Assistance in resolving issues once students have transferred;
- 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 Services Web site at http://transfer.sdes.ucf.edu.

Student Academic Resource Center (SARC)
Assistant Director: Amanda Murray; PH 113; 407-823-5130
The Student Academic Resource Center (SARC) provides high-quality programs that enable UCF students to achieve their academic goals. Some of these programs include: Supplemental Instruction, tutoring, academic advising, and learning enhancement workshops. The Supplemental Instruction (SI) program focuses on providing assistance to students in historically difficult courses such as anatomy, biology, chemistry, economics, 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 for how to learn the subject matter.
Free peer tutoring is also available for many UCF subject areas (e.g., 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, SARC also offers a series of academic 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 CLAST exam. Computer assisted learning programs also are available for the SAT, ACT, 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 also is available for students who need study skills advice or who wish to enhance their educational experience. For additional information, visit the Student Academic Resource Center website at http://sarc.ucf.edu.
University Testing Center (UTC)
Assistant Director: Amanda Murray; PH 107; 407-823-5109
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 Proiciency Exam (FLPE), the Grammar Proficiency Exam (GPE); and the Institutional Academic College Test (ACT) and College Level Examination Program (CLEP). It 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

Career Resource Center (CRC)
Director: Melanie Parker, SRC 185; 407-823-2361
The Career Resource Center (CRC) 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 specialists, an all-inclusive career library and state-of-the-art recruiting tools. These comprehensive services are designed to help first-year through graduate students manage their career planning issues, including:
- Choosing and confirming educational and career choices through career assessment tools, a 500+ volume career library, career counseling appointments, small groups, workshops, and special programs;
- Gaining career-related experience through an alumni mentoring and career shadowing program listings of internship opportunities, an annual Internship Fair, and the Lockheed Martin Work Experience Program, which provides over 200 students annually with technical, business, and engineering experiences;
- Developing the skills necessary for an effective job search through job search skills and business etiquette workshops; library resources on resumes, cover letters, and interviewing; resume and cover letter critique; and a mock interview program; and
- Searching for full-time employment and connecting with employers through the GOLD Connection, the center’s recruitment management system; the on-campus interviewing program; online job listings; eight annual job fairs; company presentations; and the resume referral system.

The CRC is open Monday through Friday. Walk-in advisors are available from 10:00 a.m. to 2:00 p.m. For more information, visit our website at http://www.crc.ucf.edu.

Counseling Center
Director: Robert Harman; SRC 203; 407-823-2811
The University of Central Florida Counseling Center is the only campus agency designated to provide psychological services to University enrolled students. The Center is composed of a professional staff of psychologists and mental health counselors who provide both a confidential atmosphere and a safe environment in which students may explore and resolve issues of concern. The Center maintains and assures confidentiality as provided by law. The Center is open Monday through Friday and operates on an appointment basis. The following counseling services are offered:
- Personal Counseling
- Career Counseling
- Couples/Conjoint Counseling
- Group Counseling

For additional information, visit the Counseling Center website at http://pegasus.ucf.edu/~coun tstf/.

National Consortium for Academics and Sports (NCAS)
Director: Suzi Katz; WDS Center 123; 407-823-5243
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.ncasports.org

Registrar's Office
University Registrar: Dennis J. Dulniak; MH 161 407-823-3100
The Registrar’s Office, with a commitment to quality service and leading edge technology, provides efficient registration, effectively meets student administrative needs, and ensures a complete enrollment process from registration through graduation. The office maintains the integrity of 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, Schedule Web Guide and the efficient utilization of classroom resources. For further information, visit our website at http://registrar.ucf.edu.

Administrative Support Services
Assistant Vice President: Sharon Ekern; MH 282; 407-823-3167

Student Government
Director: David L. Pavlou, SU 214; 407-823-2191
website: http://www.sga.ucf.edu
Student Government’s (SG) 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, Executive Vice President, cabinet, 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.

Assessment and Planning
Director: Ronald H. Atwell; MH 282; 407-823-2628
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 new employee orientation and the development of division-wide publications.

Florida Foundation for Future Scientists (FFFS)
Program Director: Nancy Besley; MH 282; 407-823-4347
website: http://www.fffs.ucf.edu/
The Florida Foundation for Future Scientists (FFFS) is a statewide, non-profit organization authorized by the 1957 Legislature of the State of Florida to discover scientific and technical talent in the schools of Florida and to encourage the pursuit of careers in science and engineering. FFFS provides many services including the State Science and Engineering Fair (SSEF) of Florida and the establishment of guidelines, rules and procedures for local, regional and statewide competitions. The FFFS is housed at UCF in Orlando. Major programs and operating expenses are financed by grants and contributions from federal agencies, the State Legislature, private industries, businesses, professional organizations, and individuals.
Community, Libra Community, Lake Claire Courtyard Apartments, and the Academic Village. A variety of living options are available to residents. On a space-available basis, students may reside in one of the following: double-occupancy bedroom with shared bath, two double-occupancy bedrooms with shared bath in a suite-style arrangement, a single-occupancy bedroom in a four-bedroom apartment facility, a single-occupancy bedroom in a suite-style arrangement with shared bath, or a single-occupancy bedroom in a two-bedroom apartment with a shared bath. Because of the limited amount of space in University housing facilities, the University does not require any student to live on campus. No on-campus accommodations are available for families or married couples.

Priority for assignment to the residence halls is given to incoming freshmen, who occupy approximately 80 percent of the University’s on-campus housing capacity. Current residents will occupy most of the remaining space. The spaces set aside for incoming freshmen are limited by the University’s overall residence hall capacity. Therefore, those desiring to reside on campus should apply for admission to the University as soon as possible.

Applications for housing can be accepted only from those applicants who have been admitted to the University. Priority for room assignments for new applicants is based on the date of the Housing Office’s receipt of the completed housing application. Applicants should carefully read the application before submitting both it and the appropriate prepayment to the Housing Office.

Housing contracts (whether in the on-campus apartments or the residence halls) when issued for Fall semester occupancy, serve as a two-semester (Fall and Spring) obligation between the applicant and the Housing Office. Housing contracts issued for the Summer Term are one-semester (Summer Only) obligation and do not extend to include an assignment to Fall housing accommodations.

Applicants have the option of choosing one of several University meal plans. Specific information concerning University meal plans is available from Aramark, P.O. Box 168017, UCF, Orlando, FL 32816-0222. Applications and other information concerning University housing may be obtained by consulting the Housing Office, P.O. Box 163222, UCF, Orlando FL 32816-0222, Phone: 407-823-4663.

Residence Life provides services and support for 7,500 students living in University-owned and affiliated housing. Eight offices, based in the residential communities, are staffed with professionally trained area coordinators, graduate assistants, resident assistants, and the residence hall auxiliary patrol. The residence life staff provides supervision in the living areas; social, educational, and recreational programming for residents; student conduct and mediation services; student leadership opportunities through community governments, and emergency response. The Housing Outreach Team, a part of the Residence Life program, provides facility tours and contact with residents prior to arrival on campus.

The main contact for the Residence Life program is the Housing Administration Building; 407-823-4663; Fax: 407-823-3813.

Intramural Sports
Associate Director: Jim Wilkening; Recreation and Wellness Center 204, 407-823-2408; http://imsports.ucf.edu

The Intramural Sports program offers the opportunity to participate in more than forty 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 you will 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://imsports.ucf.edu or call 407-823-2408. Get involved and remember to take a little time each day to play.

Recreation and Wellness Center
Director: Suzanne Halpin; SU 312; 407-823-2117

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 Wellness Center, also housed with RWC, 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 by group activities by calling Student Union Event Services at 407-823-3677. For information regarding RWC, call 407-823-5011.

Student Union
Director: Suzanne Halpin; SU 312; 407-823-2117

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, The Sweet Retreat, Steak Escape, Egg Rolz, Subway, Wendy’s, Sbarro, Baja Burrito Kitchen, Mrs. Field’s, Pretzel Time, and Wackadoo’s Grub and Brew. Retail stores include STA Travel, Park Avenue CD’s, Greek Unique, KnightStop Convenience Store, Knightwear, College Optical, and the UCF Computer Store. Other services located in the Union are the SGA Ticket Center, U.S. Postal Center, and ATM’s from SunTrust, Bank of America, and the UCF Credit Union. For information, call 407-823-0001.

Off-Campus Student Services
Assistant Vice President: Jimmy Watson; HAB 101; 407-823-6505

UCF Cocoa/UCF Daytona Campus Life
Director UCF Cocoa: TBA
Director UCFdaytona Beach: Diana L. Weidman

The UCF Cocoa (231 Cocoa; 321-632-1111) and UCF Daytona Beach (342/202 Daytona; 386-255-7423) Campus Life offices provide student services at the branch campuses, including: orientation, career advising, veteran affairs, international student services, and accommodations for disabled students. In addition, the offices provide programs, assistance to clubs and organizations, and miscellaneous test information.

Off-Campus Student Resource Center
Director: Jimmy Watson; HAB 101; 407-823-6505

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

The Off-Campus Student Resource Center also provides UCF students with live off-campus information regarding a variety of off-campus programs and services. The Center 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 Center, and to become acquainted with the many benefits the campus has to offer.

Student Health Services (SHS)
Director: Robert Faust; SHC; 407-823-2701

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 (SHC) is staffed by physicians, advanced registered nurse practitioners, physician assistants, registered nurses, pharmacists, and a full complement of other medical support personnel. Full referral to Orlando specialty care 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, 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 407-823-1087). Please remember 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 call the Police Department to obtain help for urgent needs.

Student Leadership Programs
Director: William O. Faulkner; SU 208; 407-882-0152

Student Leadership Programs serve as an umbrella organization to address leadership education and development issues. It is composed of a team of four offices within Greek Life: LEAD Scholars Program, Office of Greek Affairs, Office of Student Activities, and United Campus 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 expanded program that may involve weeks or months. The focus is to provide a variety of programmatic options that recognize students have different needs, time constraints, and levels of interest.

Greek Affairs
Director: Gregory Mason; SU 208; 407-823-2824; (Greek Council Office, SU 208, 407-823-2072)

The Office of Greek Affairs 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 scholastic support system, an organization for community service, hands-on experience in running a working entity, and a foundation for long-lasting friendships. Currently, 40 fraternities and sororities involve more than 3,000 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 participation in fraternity or sorority 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. National Pan-Hellenic Council (NPHC) sponsors a Greek Expo, which allows students to become familiar with those groups comprising that governing body. Whether or not an individual chooses to join a fraternity or sorority, Recruitment and Greek Expo 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: www.greeklife.shs.ucf.edu

LEAD Scholars Program Administrator: Director; Jan Lloyd; SU 208; 407-823-2223; http://reach.ucf.edu/~lead

The LEAD (Leadership Enrichment and Academic Development) Scholars Program is an intense and comprehensive two-year student development program for competitively selected, academically talent-ed 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 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, and 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. Additionally, students will be provided special competitive opportunities to be paired with faculty or staff in the LEAD Scholars Assistantship program.

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 future community leadership roles.

Student Activities
Director: Tony Perry; SU 208; 407-823-6471

The Office of Student Activities provides programs, resources, and services that enhance student life at the University. The office registers more than 250 student organizations (e.g., academic, pre-professional, ethnic Minority/international, governance council, Greek social, honorary, military, political/social activism, religious, service, special interest, sports) and advises the Campus Activities Board (CAB), EKCCEL - Every Knight Excel in Leadership, and Volunteer UCF (VUCF). Other programs and services sponsored through this office include the Knights of the Roundtable, Family Weekend, Weeks of Welcome, and Late Knights.

United Campus Ministries
Director: Charmaine Townsend; SRC 173; 407-823-4293

The United Campus Ministry 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, United Campus Ministry offers counseling, scripture study, public lecture and discussion programs, fellowship, recreation, and worship services.
Division Of Student Development And Enrollment Services

Student Rights and Responsibilities

Director: Patricia MacKown; SRC 155; 407-823-6960

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: TBA; SRC 153; 407-823-3477

Dispute Resolution Services enhances the University community by offering mediation training and services directed at resolving inter-personal disputes while emphasizing 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 once per 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. Learn more about Dispute Resolution Services by visiting our website at http://pegasus.cc.ucf.edu/~drs

Student Conduct

Coordinator: Victoria Burke SRC 154; 407-823-2851

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, discipline certification session, mediability checks. The Office of Student Conduct regularly 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.ucf.edu/goldenrule. 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 MacKown; SRC 155; 407-823-2538

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 one free of charge individual consultation. Consultations 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.

Special Programs

Assistant Vice President: A.J. Range; MH 282; 407-823-3867

The Unit of Special Programs is vital to the mission and purpose of the University as it seeks to provide leadership and advocacy in programs and services for students with special needs. These special programs and services enhance and complement existing support and programs that improve retention and create greater student satisfaction. As a result, the following offices are dedicated to providing an optimal student learning environment.

Creative School for Children

Director: Dolores Burghard; CSC; 407-823-2726

The Creative School for Children (Educational Research Center for Child Development) provides an educational program, including kindergarten-first grade, for children two through seven years old. The daily program is planned and conducted by degreed teachers.
Veterans’ Affairs before taking any of the new courses. This includes VA benefits but must make arrangement through the Office of a double major or dual degree, or who add a minor also may receive eligible dependents who desire to change their major, or who pursue Permission Form” from their academic advising office. Veterans and tuition and fees or quarter-time depending on DVA Chapter. Check benefits. Five semester hours or less will be reimbursed at cost of for three-quarter time benefits, and 6-8 semester hours for half-time are not eligible for this deferment.

A VA Deferral of tuition and fees. The VA Deferment due date is con-

The OVA evaluates and awards transfer credit for military training and education in accordance with Department of Veterans Affairs regulations and UCF policies. Credit is awarded for 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 or other official military records. U.S. Air Force veterans are asked to provide official copies of Community College of the Air Force transcripts to the Admissions office.

Students eligible for DVA educational benefits also may be eligible for a VA Deferral of tuition and fees. The VA Deferral due date is contained in the “Academic Calendar” of this Undergraduate Catalog. 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 semester hours for full-time DVA benefits, 9-11 semester hours for three-quarter time benefits, and 6-8 semester hours for half-time benefits. Five semester hours or less will be reimbursed at cost of tuition and fees or quarter-time depending on DVA Chapter. Check with OVA for summer course load requirements.

Students intending to enroll concurrently at UCF and another institution have the option of receiving DVA benefits, but first must consult with the Office of Veterans’ Affairs and obtain a “Transient Permission Form” from their academic advising office. Veterans and eligible dependents who desire to change their major, or who pursue a double major or dual degree, or who add a minor also may receive VA benefits but must make arrangement through the Office of Veterans’ Affairs before taking any of the new courses. This includes a minor in military sciences. Note: some majors have room in the program for extra electives that can be filled with courses for a minor or for another major.

To receive veterans’ 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 the Office of Veterans’ Affairs to have their DVA educational benefits re-started. Individuals placed on academic probation will continue to receive benefits as long as he or she earns a 2.0 or higher GPA each semester. For students who fail to maintain satisfactory academic progress, benefits will be terminated once the required semester hours of course work for the program of study are 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 semester and the off-campus work terms. Contact the Office of Veterans’ Affairs at 407-823-2707 for more specific benefit information on cooperative education.

Veterans’ Benefits

Assistant Director: Lorea E. Clark; MH 149; 407-823-2707

The Office of Veterans’ Affairs (OVA) is a center for all veteran students and eligible dependents who are using VA educational benefits to further their education. The office has a professional staff augmented by student veterans who assist in providing information concerning entitlements, filing claims to the Department of Veterans Affairs (DVA), and certifying enrollment at the University. The office also provides counseling for personal and academic concerns, tutorial assistance, and referral to various community agencies. Veterans and eligible dependents must be certified through the Office of Veterans’ Affairs to receive DVA educational benefits. The office monitors the academic progress of all those receiving DVA educational benefits. All veterans and eligible dependents are urged to consult the Office of Veterans’ Affairs early in the UCF admissions process.

Veterans’ Benefits

Students who are entitled to DVA educational benefits must make initial contact with the Office of Veterans’ Affairs. To maintain eligibility for DVA education benefits, students must adhere to the policies and procedures contained in the UCF “Student Veteran Handbook” and DVA rules and regulations. A copy of the “Student Veteran Handbook” can be obtained at the Office of Veterans’ Affairs.

The OVA evaluates and awards transfer credit for military training and education in accordance with Department of Veterans Affairs regulations and UCF policies. Credit is awarded for 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 or other official military records. U.S. Air Force veterans are asked to provide official copies of Community College of the Air Force transcripts to the Admissions office.

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Student Financial Assistance

Executive Director: Mary H. McKinney; MH 120; 407-823-2827; For appointment 407-823-5285 website: www.finaid.ucf.edu

This office’s primary role is to provide financial assistance to students and families, allowing them to participate fully in the total educational experience. The office is responsible for coordinating and processing all resources for both undergraduate and graduate students. It serves also as the Undergraduate Student Personnel Office. Students may contact the Office of Student Financial Assistance to receive individual, comprehensive counseling by telephone or to schedule an appointment with a counselor. The office provides a complete line of services regarding financial assistance to all students. For more detailed information, visit our website at http://pegasus.cc.ucf.edu/~finaid/.

Undergraduate Admissions

Executive Director: Gordon D. Chavis, Jr., J.D.; MH 161; 407-823-3000; email: admission@mail.ucf.edu; website: http://pegasus.cc.ucf.edu/~admission/

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, Clermont and Cocoa 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. It also provides the opportunity to meet one-on-one with an admission 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.
Undergraduate Admissions

Executive Director: Gordon D. Chavis, Jr., J.D.; MH 161;
407-823-3000; email: admissio@mail.ucf.edu;
website: http://pegasus.cc.ucf.edu/~admissio/

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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 Tours

Tours of the campus are available to all interested individuals and are an excellent way to view first-hand the facilities offered at the University. Campus tours are conducted by trained student tour-guides and last approximately one hour. Appointments are not necessary.

Tours leave from the information booth on the second floor of Millican Hall at 10:00 a.m. and 2:00 p.m., Monday through Friday, except holidays. Group tours or special requests may be scheduled by calling Undergraduate Admissions at 407-823-6936.

Students are invited to participate in an information session held immediately after each campus tour. These sessions provide general information about the University and the application process. Meetings with Admissions Officers are available and are encouraged for those students who are finalizing their college plans. Appointments can be made by calling the Undergraduate Admissions Office at 407-823-3000.
Undergraduate Admissions

Application for Admission
All interested applicants should complete the “State University System Application for Admission” or the University of Central Florida “Undergraduate Admissions Application” and include a $20 in U.S. Currency, non-refundable application fee. $30 for those applying for the Spring 2004 term and thereafter. Students may also apply online at our web site, http://pegasus.cc.ucf.edu/~admission/application. Students should apply several months in advance of an anticipated start date. Mail admission 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 will be accepted up to one year prior to the start of the term desired. The priority application deadlines are May 1 for the Fall semester, November 1 for the Spring semester, and March 1 for the Summer term. The priority deadline for most financial assistance and scholarships 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 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 for admission or residency affidavit may result in disciplinary action, denial of admission, 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 their 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 to UCF as a degree-seeking 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 credentials may be required. Students will be reevaluated for admission for the new term. 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 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

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, pattern 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 its diversity.

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 is encouraged 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 honors courses, advanced courses, International Baccalaureate, and Advanced Placement (AP) 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 substantial writing)</td>
<td>4</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 substantial laboratory requirements)</td>
<td>3</td>
</tr>
<tr>
<td>Social Science (included: history, civics, political science, economics, sociology, psychology, and geography)</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Language (both credits must be in the same language)</td>
<td>2</td>
</tr>
<tr>
<td>Additional academic electives from the above five subject areas and courses recommended by the Florida Assn. of School Administrators, or other groups, and courses recommended by the Articulation Committee and approved by the Department of Education</td>
<td>4</td>
</tr>
</tbody>
</table>

Total Units: 19

Academic Subjects

- English (three of which must have included substantial writing)
- Mathematics (at or above the Algebra I level)
- Natural Science (two of which must have included substantial laboratory requirements)
- Social Science (included: history, civics, political science, economics, sociology, psychology, and geography)
- Foreign Language (both credits must be in the same language)
- Additional academic electives from the above five subject areas and courses recommended by the Florida Assn. of School Administrators, or other groups, and courses recommended by the Articulation Committee and approved by the Department of Education

Total Units: 19

29
Undergraduate Admissions

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

If the High School GPA is: Minimum test scores must be:

<table>
<thead>
<tr>
<th>HS GPA</th>
<th>SAT or ACT</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.0</td>
<td>1140 25</td>
</tr>
<tr>
<td>2.1</td>
<td>1110 24</td>
</tr>
<tr>
<td>2.2</td>
<td>1090 24</td>
</tr>
<tr>
<td>2.3</td>
<td>1060 23</td>
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<tr>
<td>2.4</td>
<td>1030 22</td>
</tr>
<tr>
<td>2.5</td>
<td>1010 21</td>
</tr>
<tr>
<td>2.6</td>
<td>1000 21</td>
</tr>
<tr>
<td>2.7</td>
<td>990 21</td>
</tr>
<tr>
<td>2.8</td>
<td>980 21</td>
</tr>
<tr>
<td>2.9</td>
<td>970 20</td>
</tr>
<tr>
<td>3.0</td>
<td>*         *</td>
</tr>
</tbody>
</table>

* 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, 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.

- Any student admitted without two years of one foreign language in high school or the equivalent (minimum eight semester hours) at the post-secondary level, must satisfy this admission requirement prior to earning 60 semester hours of credit.

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;
   - 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.

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 State University System application, the University of Central Florida Undergraduate Admissions Application, or apply on-line at http://pegasus.cc.ucf.edu/admission/, 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, with the exception of courses taken previously at UCF. Applicants must have a current minimum cumulative GPA of 2.5, and must have a minimum high school GPA of 2.0 and be eligible to return as a degree seeking student to 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 (as listed on previous page); 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 "limit-ed 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 programs;
7. Equal opportunity with native university students to enter limited programs. 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 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.

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 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.

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 main 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
- Area 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 six graduate semester hours may be earned as a 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. Non-degree students are not eligible to receive financial aid nor 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 about 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 non-immigrant alien students. All international candidates applying for admission to UCF must submit a "State University System Application," a University of Central Florida "Undergraduate Admissions Application," or apply online at http://www.ucf.edu. Because of additional processing time needed for International Students, those students should submit the application as early as possible, but no later than May 1 for the Fall Semester, and November 1 for the Spring Semester and March 1 for the Summer Semester. To complete the application, please follow the steps below:
- Submit the completed UCF admissions application form with the required $20.00 application fee, $30 beginning with the Spring 2004 term and thereafter (check or money order in U.S. currency). An on-line application is available on our web site at www.ucf.edu.
- 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 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.
Institutions “means those colleges and universities accredited by any regional accreditation agency.

For the purposes of this Undergraduate Catalog “Accredited Institutions” means those colleges and universities accredited by any of the following six regional associations:

- New England Association of Schools and Colleges;
- Middle States Association of Colleges and Secondary School, Commission on Institutions of Higher Education;
- North Central Association of Colleges and Schools, Commission on Colleges and Universities;
- Northwest Association of Secondary and Higher Schools, Commission on Higher Schools;
- Southern Association of Colleges and Schools; and
- Western Association of Schools and Colleges Accrediting Commission for Senior Colleges and Universities and Accrediting Commission for Junior Colleges.

The accreditation status of all foreign institutions must be evaluated through either Josef Silny and Associates, Inc., or World Education Services.

All college level credits earned for which official transcripts have been submitted will be counted into a “Transfer Summary Report” (TSR) soon after the student is admitted. Some credits listed on the TSR may not be applicable toward graduation course requirements. The TSR will be the basis for constructing a “SASS Degree Audit,” which applies earned credits to the intended degree program. The “SASS Degree Audit” provides the student with an assessment of which degree requirements have been met and what remains to be satisfied. Although all college-level course work transferred from a nationally accredited institution is shown on the TSR and the UCF transcript, applicability of the course toward a degree requirement is determined by the college/school/department of the major.

General Education Transfer Credits
Transfer students from Florida public community colleges or universities may satisfy the General Education Program requirements of UCF by completing the general education program prescribed by that institution. Transfer applicants with incomplete general education programs will have their credits evaluated on a course-by-course basis.

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 program.

Credits From Military Service School Courses
Completed military service school courses may be evaluated on the basis of the recommendations of the American Council of Education (ACE) when official credentials have been properly presented. While credit may be granted when courses are equivalent to those offered by the University, recommendations by the ACE are not binding upon the University.

Military credit is not accepted through transfer unless used as part of an Associate of Arts degree from a Florida public community college. Even though military records may have been evaluated by another nationally-accredited institution, it is important to have official credentials sent to UCF for evaluation. Credit is not awarded for basic training.

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 on 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
MH 120; 407-823-2827; email: finaid@mail.ucf.edu;
Website: http://finaid.ucf.edu

Students are encouraged to apply for financial assistance by completing the Free Application for Federal Student Aid (FAFSA). The following Financial Assistance policies and procedures are based upon federal, state, and University regulations current for the 2003-2004 academic year. Regulations are subject to change at any time.

Determining Eligibility
In order to qualify for federal and state financial aid programs, a student must be a citizen or permanent resident of the United States, the Mariana Islands, or the Pacific Trust Territories. Some financial aid programs are available to part-time students; however, generally at least six credit hours enrollment per term is required. Pell Grants are available to some students attending less than six hours.

The Student Financial Assistance Office encourages all students to apply for financial aid and to begin the process early. There are many grant, loan, and employment programs available. Most programs require the determination of financial need.

Financial need is calculated by the federal processor who uses a standardized formula: financial need equals the cost of education (specific to the school to be attended) minus the expected family contribution (specific to each applicant) and minus any Veteran's Educational Benefits or other expected resources available. Students and/or parents provide detailed financial information on the FAFSA, which generates a need analysis. The results are forwarded to the UCF Student Financial Assistance Office by the federal processor.

School Costs
Estimated Cost of Attendance 2003-2004
(Full Time Fall/ Spring)

<table>
<thead>
<tr>
<th>LIVING WITH PARENTS</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition/Fees</td>
<td>$2,905</td>
</tr>
<tr>
<td>Books/Supplies</td>
<td>800</td>
</tr>
<tr>
<td>Room/Board</td>
<td>4,056</td>
</tr>
<tr>
<td>Personal Exp.</td>
<td>1,989</td>
</tr>
<tr>
<td>Transportation</td>
<td>1,434</td>
</tr>
<tr>
<td>Total (In State)</td>
<td>11,184</td>
</tr>
<tr>
<td>Out-Of-State Tuition/Fees</td>
<td>8,446</td>
</tr>
<tr>
<td>Total (Out of State)</td>
<td>$19,630</td>
</tr>
</tbody>
</table>

Specific Eligibility Requirements
- The applicant must have a high school degree and must not be enrolled in an elementary or secondary school.
- The applicant must be admitted as a degree-seeking student at UCF in an eligible program.
- The applicant 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.
- The applicant must be maintaining Satisfactory Academic Progress toward his/her degree. See the ‘Satisfactory Academic Progress Policy’ in this chapter.
- The applicant must not be in default on any Federal Student Loan and must not owe a repayment on any grant program.
- The male applicant must be registered with Selective Service (if
Financial Information

Conditions and Requirements for Receiving Assistance

The student must enroll for a minimum of six semester hours.

Twelve hours are required for some programs, including most scholarships. Pell Grants, however, may be paid on less than six hours of enrollment;

The student must maintain UCF’s standards for Satisfactory Academic Progress (following section);

The student agrees to inform the office of any additional assistance received beyond that listed on the award summary on POLARIS; Any subsequent awards or income may necessitate a revision of the financial assistance award;

The student must not be in default on any educational loan or owe repayment on a grant at this or any other institution;

The student must provide all information requested for the completion of his or her file. If selected, verification must be completed prior to the receipt of any funds or certification of a Federal Stafford Loan;

The student must notify the Student Financial Assistance Office of any changes in housing status or corrections to the financial or household information from that listed on the student’s assistance application.

Independent Student Status

The financial resources of parents do not have to be included in the determination of student’s financial need if the student is:

- 24 years of age or older as of the award year
- An orphan or ward of the court
- A veteran
- Legally and financially responsible for dependents other than a spouse
- Married

UCF Application Deadlines

To be considered for the full range of aid available for the academic year (beginning with the Fall term), the federal application must be received by the federal processor by March 1 of the preceding spring.

- Incoming students should not wait to be admitted to UCF before applying for financial aid.
- All students must reapply yearly for financial aid.
- Federal Pell Grants and Federal 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 do not apply or have incomplete applications 30 days prior to the payment deadline should not expect their aid to be paid until well after the beginning of the Fall term.

Application Procedures

The following steps may take four to six weeks to complete. Students who desire to enter UCF in spring or summer term must also apply by the March 1 deadline of the preceding Spring in order to be considered for the maximum aid available.

1. File a Free Application for Federal Student Aid

UCF requires that the student complete the Free Application for Federal Student Aid (FAFSA) or Renewal FAFSA.

Note: The FAFSA must be received by the federal processor by March 1 of the preceding year that UCF has been included as a school choice. Our school code is 003954 and may be added to your application by calling the federal information center at 1-800-4-FED AID.

Applications should be filed electronically at www.fafsa.ed.gov.

Follow-up promptly on all corrections to the FAFSA. Messages from the processor should be reviewed thoroughly and followed as promptly as possible.

2. Follow-Through

The student’s application is not complete until all documents request-
ed have been filed and reviewed in the financial assistance office. Please review all correspondence, follow instructions on the Student Aid Report and follow through promptly. Delays can be frustrating, as well as costly.

3. Verification

Federal regulations require that some students verify the information submitted on their applications. If selected for verification, students will be asked to provide income, asset and household information as required by law. Please be aware that 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.

4. Professional Judgment

Students should contact the Student Financial Assistance Office for an appointment with a counselor concerning any extenuating circumstance that they were not able to state on the original FAFSA.

5. Award Notification

Award notifications will be sent after the Student Financial Assistance Office processes the data. All awards are subject to change.

Helpful Tips:

- Make a copy of tax return forms before submission to IRS.
- Start a folder NOW to save financial aid information and photocopies of all documents filed and received.
- Include student's name and SSN on all documents submitted to Student Financial Assistance Office.
- Maintain a current mailing address and email address on Polaris.
- Most financial aid correspondence is via email.
- 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 now does not obligate the student to process a loan, but will make it easier if additional funds are needed.
- On-line access is available at http://finaid.ucf.edu
- If the student has extenuating circumstances or runs into major problems at anytime, call our appointment line, 407-823-5285, to meet with a counselor.

Office Hours:

Monday: 9:00 AM - 7:00 PM
Tuesday/Wednesday/Friday: 9:00 AM - 5:00 PM
Thursday: 1:00 PM - 7:00 PM

Call 407-823-2827 for other information.

Transfer Students

To apply for financial aid at UCF, complete all the application procedures listed and ensure that if a FAFSA has already been filed for the year that UCF has been included as a school choice. Our school code is 003954 and may be added to your application by calling the federal information center at 1-800-4-FED AID.

Dual Enrollment

Students may use approved dual enrolled hours to meet eligibility requirements for federal aid programs. Dual enrollment will not meet eligibility criteria for institutional aid programs. UCF will process financial aid for UCF degree-seeking students only.

Students should read the details concerning dual enrollment and financial aid at our website http://finaid.ucf.edu and download the forms necessary to receive financial aid for attending another school.

*Courses must meet some major or general education requirements to be calculated as part of student aid eligibility. Courses that will not offset degree requirements cannot be included.

Students must obtain approval for attempted credits from their academic department.

All documents below must be submitted on or before the semester withdrawal deadline:

- Advisor Certification Form
- Course schedule and fee invoice/bill from host school;
- Consortium Agreement: this may arrive later but student cannot be processed until the information is received.

Students are responsible to pay the tuition and fees at the host institution unless that institution will agree to defer. Students must contact
the school attended for these arrangements. In addition, students must take steps to ensure that academic transcripts are sent to the UCF Registrar's Office (P.O. Box 160114, Orlando, FL 32816-0114) and must provide a copy of that transcript to the UCF Office of Student Financial Assistance.

**Financial Aid Programs Available at UCF**

Award notifications are available to continuing students only after files are completed. Initial notices are sent to first time UCF students before files are completed; however, awards may change after all information is received and reviewed.

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 letter are estimates based on full-time registration.

Admission to UCF must be finalized with no contingencies. Students must be classified as Degree-Seeking. Verification must be completed. Students must meet the standards for satisfactory academic progress. If all eligibility is met, financial aid funds may be disbursed.

The chart that follows indicates the number of hours for which the student must enroll each semester to receive an award from each program. The results of the FAFSA will determine eligibility for these programs. It is the student's responsibility to be aware of minimal hourly requirements for each program. When requirements are no longer met, awards will be adjusted as necessary. The adjusted award will appear on POLARIS.

**Loans**

**Federal Family Educational Loans** are made through private lenders. Undergraduate and degree seeking PostBac students must be enrolled in a minimum of six credit hours at UCF in UCF classes at the time of disbursement to receive funds. First-time borrowers at UCF must complete an Entrance Interview before a loan will be processed. Entrance Interviews may be completed by accessing our website [http://finaid.ucf.edu](http://finaid.ucf.edu) and going to "Entrance Interviews." Exit Interviews are required for graduation or when enrollment drops below half time. Exit Interviews are available through our website or you may contact the office for schedules. Once eligibility has been determined by a need analysis, students must complete and submit a Federal Stafford Loan Response Form by the dates printed below so that processing can be completed in time to receive funds during the term indicated. For more details, please refer to the website at [http://finaid.ucf.edu](http://finaid.ucf.edu).

**November 15**

**March 15**

**June 30**

**Fall Semester Loan**

**Spring Semester Loan**

**Summer Term Loan**

Student loan check(s) or EFT disbursements will be sent to UCF after the lender has received a completed Master Promissory Note (MPN). We strongly suggest that you follow-up with your lender if you have not received your loan check within 20 days of mailing your promissory note or notification by the UCF Financial Assistance Office of a problem. To estimate when your Federal Student Loan funds will be mailed, refer to the Disclosure Statement from your lender; it indicates a date the lender intends to send the funds to UCF. If that date is before the semester starts, please allow ten working days from the first day of classes before inquiring about your funds. If the date is after the semester begins, please allow ten working days from the disbursement date for UCF processing. Disbursement of loan funds begins after the add/drop period and, usually after the third week of classes.

**Two-term loans:** to receive the second half of a two-term loan, the student must have received the first disbursement, and be enrolled for at least six hours at UCF (graduates-at least half-time) for the second semester.

**Federal Perkins Loans** are loans made by the University to students with demonstrated need. These loans are awarded at the time of packaging based on students meeting the priority deadline, available funds and student need. The interest rate is 5% and the loans have a grace period of 6 months after leaving school before repayment begins. It is required that students sign a promissory note for each term of Perkins Loan before disbursement.

**Employment**

**Federal Work Study (FWS) jobs** are awarded as part of a student's financial aid package: a minimum of six hours enrollment is required for undergraduates. Jobs are on- and off-campus and efforts are made to match job assignments with the student's academic program. Awards are paid as an hourly wage.

**The Florida Work Experience Program (FWECP)** provides off-campus jobs related to the student's major to help fill unmet financial need established by a current need analysis. Six hours enrollment is necessary. This program is administered by the Center for Cooperative Education and Applied Learning, 407-823-2667.

**Cooperative Education (Co-op) jobs** related to students' educational goals are available off-campus and are not based on need. Contact the Center for Cooperative Education and Applied Learning, 407-823-2667.

**OPS (Other Personnel Services) jobs** are available on-campus and are not related to financial need. Application is made directly to the department advertising the position.

**Deferrals of Tuition and Fees**

Financial aid awards generally will permit students to defer the payment of tuition and fees. The amount of applicable deferral will be noted on the fee invoice as anticipated aid. Students are responsible to pay any amount owed to the University that is not covered by the amount of anticipated aid, by the published deadline. This process occurs automatically if the student has enrolled for sufficient hours, is meeting all general eligibility requirements, and is making satisfactory academic progress. Eligibility changes will require awards to be adjusted. This program makes up for the time lag that normally occurs between the date that tuition and fees are due and the date on which financial aid disbursements begin, which normally is three to four weeks after the semester begins.

- The following programs are not included in the Automatic Deferral Program: work study programs, third party deferrals, other waivers, and direct-pay scholarships.
- Since awards are subject to change, deferrals are also subject to change.
- Deferrals based on Stafford loans will be canceled if the student does not complete a Stafford Loan Response Form or fails to complete any part of the loan process.
- Financial aid deferrals based on federal or state need based programs that require a FAFSA will not be available to students who do not complete a FAFSA in sufficient time in advance of the payment deadline.

**Funds Disbursement**

Financial aid disbursements are not available at the start of classes. Funds disbursement will begin after the third week of classes. Therefore, students should make themselves aware of the Automatic Deferral policies and procedures and should be prepared to use personal savings or a UCF Short Term Loan for books. Late applicants (those who apply after June 30) will likely find themselves caught up in a processing backlog that could dramatically delay the disbursement of their aid. These individuals should be prepared to cover their own living expenses out-of-pocket well into the semester.

Financial aid awards will be disbursed by the Office of Student Accounts to first offset any charges owed to the University. Funds for most programs that exceed University charges will be sent out in the form of a University refund either through EFT to a property set up SunTrust Bank account or as a check to the mailing address on file. Students are reminded to keep the mailing address up to date.

For loan funds that must arrive by check from the lender, these will be held at the cashier's office for pick-up by the student to facilitate any deduction for debts owed to the University. It is the student's responsibility to pay outstanding debts to the school within 21 days of the date of the notification that funds have been disbursed to avoid a late charge. Undergraduate students must be enrolled in at least six credit hours at UCF in UCF classes at the time of disbursement of each Federal Stafford Loan check.
Note: The verification process must be complete before financial assistance funds will be released. Students on Financial Aid Cancellation due to not making satisfactory academic progress are not eligible for federal or university funds.

Exit Interviews are required upon graduation or departure from UCF. Be sure to file address changes with the Registrar's Office or on-line at https://connect.ucf.edu as they occur.

Overawards
Financial aid awards are in part made based on need as outlined previously. The goal is to attempt to meet as much of each student's calculated need as possible. However, if information changes after initial awards are made including a change to the expected family contribution, the student's cost of attendance, information concerning additional awards becomes available, etc. the previous awards must be evaluated to prevent overawards. Overawards occur where available resources exceed the calculated need. If an overaward occurs following disbursement of awards, the student will be responsible for repayment of funds for which he or she is not eligible.

Refunds and Return of Title IV Funds
Students withdrawing before 60% of a semester has elapsed who have received federal financial aid will only be eligible for a portion of the aid received. Federal regulations require awards be adjusted based on the length of semester attendance. Students may owe money to the University as a result of this required adjustment. Academic transcripts and other services will be on hold until repayment is made. It is recommended that students schedule an appointment with a counselor if considering a semester withdrawal to discuss the possible financial aid and academic progress consequences. The appointment desk telephone number is 407-823-5285.

Satisfactory Academic Progress Policy
Federal regulations require the University to establish standards of Satisfactory Academic Progress as a general eligibility requirement for financial assistance. A student must maintain Satisfactory Academic Progress in a course of study regardless of whether the student was a previous recipient of financial aid. Students who are unclear about these policies should schedule an appointment.

The factors required to measure satisfactory progress are as follows:

- Earn a minimum of 2.0 UCF cumulative GPA by the end of the second academic year attended;
- Complete a minimum of 75% of your attempted hours by the end of the spring of each academic year;
- Graduate within the time frame assigned by this policy.

<table>
<thead>
<tr>
<th>Financial Information</th>
<th>Priority 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 2004</td>
<td>Prorated based on hours</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Federal SEOG</td>
<td>March 1</td>
<td>12</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>UCF Merit Award</td>
<td>March 1</td>
<td>12</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>FSOG</td>
<td>March 1</td>
<td>6</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>College Work Study</td>
<td>March 1</td>
<td>6</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FSWE (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 in UCF classes</td>
<td>Yes</td>
<td>At least half-time at UCF</td>
<td>Yes</td>
</tr>
<tr>
<td>Federal Perkins Loans</td>
<td>March 1</td>
<td>6</td>
<td>Yes</td>
<td>At least half-time at UCF</td>
</tr>
<tr>
<td>Scholarships</td>
<td>Varies year round</td>
<td>Varies</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Federal Unsubsidized Stafford Loans</td>
<td>Posted each term in UCF classes</td>
<td>Yes</td>
<td>At least half-time at UCF</td>
<td>Yes</td>
</tr>
<tr>
<td>Federal Parent Loans to Undergraduate Students (PLUS)</td>
<td>Varies</td>
<td>6 at UCF</td>
<td>No</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Note: Financial aid awards are in part made based on need as outlined previously. The goal is to attempt to meet as much of each student's calculated need as possible. However, if information changes after initial awards are made including a change to the expected family contribution, the student's cost of attendance, information concerning additional awards becomes available, etc. the previous awards must be evaluated to prevent overawards. Overawards occur where available resources exceed the calculated need. If an overaward occurs following disbursement of awards, the student will be responsible for repayment of funds for which he or she is not eligible.
A. Qualitative Measure of Progress

Grade Point Average

Students must have a minimum of 2.0 UCF cumulative GPA by the end of the second academic year of attendance and must maintain a 2.0 GPA or better throughout their undergraduate enrollment. Students failing to meet this requirement will be placed on a financial aid cancellation status and will be ineligible to receive financial aid until they meet the requirement.

Note: Students placed upon academic suspension (disqualification or exclusion) are ineligible for financial aid. A student will regain eligibility should he or she be readmitted to the University. For academic suspension and readmission information, see "Academic Standing" and 'Readmission' within the "Academic Regulations and Procedures" chapter of this Undergraduate Catalog.

B. Quantitative Measure of Progress

1. Measurement of Progress Within Time Frame

At the end of each Spring term, Student Financial Assistance will review the academic progress of all financial aid applicants. A student must have earned 75% of the UCF attempted hours for previous Summer, Fall and Spring terms at the latest degree level in progress (i.e., undergraduate and graduate credits cannot be commingled). If, at that time, it is determined that the student is not meeting the University's standards of academic progress, the student will be placed on financial aid cancellation and written notification will be sent to the student.

Students who are new to the University (0-6 credits) will be allowed to continue receiving financial aid until the next evaluation.

Successful completion of a class is defined as earning a grade of A, A-, B+, B-, C+, C-, D+, D, D- or S. Classes that meet the Gordon Rule must be completed with a minimum grade of "C" (1.75). Unsuccessful completion is defined as earning a grade of F, W, I, WP, WF, X, N, U, WM, WH, or NC.

2. Time Frame for Completing Degree Objectives

Overall attempted hours will be monitored at the end of the Spring term of each academic year. When a student meets or exceeds the number of hours, the student will be placed on financial aid cancellation even if financial aid was not received during previous terms. Below is a chart of the allowed time frame per classification:

<table>
<thead>
<tr>
<th>Classification</th>
<th>Hours Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate (i.e., transferred hours)</td>
<td>180 Overall Attempted Hours</td>
</tr>
<tr>
<td>Second-Degree</td>
<td>60 Attempted Hours (including all Post-Bac hours)</td>
</tr>
<tr>
<td>Master's</td>
<td>70 Attempted Hours (including all Post-Bac hours)</td>
</tr>
<tr>
<td>Specialist</td>
<td>100 Attempted Hours (including all Graduate and Post-Bac hours)</td>
</tr>
<tr>
<td>Doctorate</td>
<td>120 Attempted Hours (including all Graduate and Post-Bac hours)</td>
</tr>
</tbody>
</table>

Procedure for Appeals

If students do not meet the above standards, they will be placed on financial aid cancellation. When students are on cancellation, they are not eligible for aid or a deferment unless reinstated through the appeal process. Any student with extenuating circumstances who is placed on cancellation may appeal to the Financial Aid Review Committee. To appeal, the student must:

1. Complete the Satisfactory Academic Progress Appeal Form, which is available on our web site at http://finaid.ucf.edu/
2. Submit acceptable documentation supporting the extenuating circumstances.

After a thorough evaluation of the written request and all documentation, the Financial Aid Review Committee will notify the student of its decision in writing.

UCF Undergraduate to Graduate Fellowship

This merit-based award is for first-year graduate students who will complete their undergraduate degrees at UCF in the previous year and who will continue in UCF graduate programs, either masters or doctoral, in the following academic year. For more graduate financial aid information, please see the UCF Graduate Catalog or online at www.graduate.ucf.edu.

Student Rights and Responsibilities

- Students have the right to full information about the financial aid programs available at UCF, application procedures and deadlines, and the criteria used to determine a financial package.
- Students have the right to appeal decisions made by the Student Financial Assistance Office.
- 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.
- It is the student's responsibility to periodically check their financial assistance progress on POLARIS at https://connect.ucf.edu for application status, Short-Term Loan status, deferment status, disbursement information, and "Fee Invoice."

Student Accounts Office

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

Schedule of Fees

A student's basic expenses at the University will be for registration and course related fees, room and board, textbooks, and miscellaneous items. Required fees are established by the University Board of Trustees and are subject to change without notice. Fees are affected by residency status.

Students are encouraged to obtain a “Fee Invoice” to confirm fees and course registration. Fee Invoices are not mailed. Fee Invoices are available on the POLARIS web system and kiosks, from student’s college advising offices, and in the Registrar’s Office. Students must obtain a new “Fee Invoice” after making any course changes or schedule adjustments.

All University fees must be paid according to published dates and no later than the end of the Late Registration and Add/Drop period. 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. The following schedule applies to all UCF students:

Registration Fees per semester or term are shown for main campus, area centers, and continuing education courses. Zero hour registration students are assessed one credit hour at the Florida Resident Tuition rate at the course level for which the student is registered.

Late Registration Fee

Students who register for the first time during Late Registration and Add/Drop will be assessed a Late Registration Fee of $100.

Payment Deadline:

Pay Now or Pay More

Failure to pay fees or obtain a deferment of fees by the payment deadline will result in the assessment of a $100.00 Late Payment Fee. Students who register for UCF 1500 "UCF Temporary Course" are required to pay for this temporary class by the payment deadline to avoid assessment of the Late Payment Fee.

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 fail to pay my tuition and fees by the deadline, 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.”

Late Registration Fee and Late Payment Fee Appeals

Students who desire to appeal a Late Registration, and/or Late Payment, may make their appeal to the Fee Appeals Committee by initiating a student petition (Form 41-561). This form can be obtained.
Financial Information

online at www.finacctg.ucf.edu

> Student Accounts > forms, from the University Cashier or the Student Accounts Section of Finance and Accounting. Students must submit their petitions to Student Accounts (MH 107) and may appear before the Committee (not mandatory).

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 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.

Acceptable Forms of Payment
Acceptable forms of payment are cash, cashier's checks, money orders and credit cards. Credit card payments may be made online, through POLARIS, at the Cashier's Office (MH 109) or by a telephone call to the Cashier's Office at 407-823-2614. 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.

Payment Procedures
Payment must be received or postmarked no later than the fee payment deadlines specified. Payment may be made at the Cashier's Office (MH 109). Operating Hours are Monday and Thursday from 8:30 a.m. to 7:00 p.m. and Tuesday, Wednesday and Friday from 8:30 a.m. to 4:00 p.m. Students may submit payment after Cashier's Office operating hours at the Cashier's night depository (located at the pond entrance of Milican Hall) or through the enrollment screen “ePay” option on POLARIS at https://connect.ucf.edu. Payments (no cash) placed in the night depository by the official fee payment deadline will be considered “on time.” Students may also submit payment by mail. Mailed payments must be postmarked no later than the payment deadline. Please include the student's PID on checks or money orders.

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.

Do not send cash. Address payments to:
University of Central Florida
P.O. Box 918449
Orlando, FL 32891-8449

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

Refund of Fees
A refund of fees will be made under the conditions noted below. A written appeal for a refund or other appeal action must be submitted 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, where applicable, up to the full amount.

A full refund is due when:
1. Any class is dropped before the end of the Add/Drop period;
2. Cancellation of the course by the University; or
3. Student is denied admission to an offered course.

Partial refund due to complete withdrawal from the University: for the Fall and Spring semesters, a 25% refund of tuition is available for students who completely withdraw from the University by the end of the fourth week of classes. For the Summer term, complete withdrawal from an individual session must occur before the first quarter of classes has elapsed for that session. Each session in the Summer term is considered individually for partial refund purposes. The exact withdrawal deadline dates for each term may be obtained from the Student Accounts Office.

Refunds for exceptional circumstances at any time upon withdrawal from one or more courses: up to 100% of tuition and registration fees due to circumstances determined by the University to be exceptional, including but not limited to sickness, death, involuntary call to military service, or administrative errors created by the University.

2002-2003 Tuition and Fee Schedule*

<table>
<thead>
<tr>
<th></th>
<th>2002-2003 Tuition and Fee Schedule*</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(2003-2004 fees not available at time of publication).</td>
</tr>
</tbody>
</table>

<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>$58.45</td>
<td>$58.45</td>
</tr>
<tr>
<td>Non-Resident Fee</td>
<td>$0</td>
<td>$300.49</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>$2.91</td>
<td>$2.91</td>
</tr>
<tr>
<td>Non-Res Financial Aid Fee</td>
<td>$0</td>
<td>$13.13</td>
</tr>
<tr>
<td>UCF Activity and Svc Fee</td>
<td>$8.09</td>
<td>$8.09</td>
</tr>
<tr>
<td>UCF Athletic Fee</td>
<td>$9.90</td>
<td>$9.90</td>
</tr>
<tr>
<td>Transportation Access Fee</td>
<td>$3.90</td>
<td>$3.90</td>
</tr>
<tr>
<td>TOTAL PER HOUR FEES</td>
<td>$88.01</td>
<td>$401.63</td>
</tr>
</tbody>
</table>

2002-2003 Third Attempt Repeat Course 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>$58.45</td>
<td>$58.45</td>
</tr>
<tr>
<td>Non-Resident Fee</td>
<td>$0</td>
<td>$300.49</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>$2.91</td>
<td>$2.91</td>
</tr>
<tr>
<td>Non-Res Financial Aid Fee</td>
<td>$0</td>
<td>$13.13</td>
</tr>
<tr>
<td>UCF Activity and Svc Fee</td>
<td>$8.09</td>
<td>$8.09</td>
</tr>
<tr>
<td>UCF Athletic Fee</td>
<td>$9.90</td>
<td>$9.90</td>
</tr>
<tr>
<td>Transportation Access Fee</td>
<td>$3.90</td>
<td>$3.90</td>
</tr>
<tr>
<td>Repeat Course Fee</td>
<td>$177.42</td>
<td>$177.42</td>
</tr>
<tr>
<td>TOTAL PER HOUR FEES</td>
<td>$265.43</td>
<td>$579.05</td>
</tr>
</tbody>
</table>

Other Fees: Resident and Non-resident *

<table>
<thead>
<tr>
<th>Fees Per Credit Hour</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>$10.00</td>
</tr>
<tr>
<td>Campus (ID) Card Replacement Fee</td>
<td>$15.00</td>
<td>$15.00</td>
</tr>
<tr>
<td>Health Fee</td>
<td>$6.00 per credit hour</td>
<td>$6.00 per credit hour</td>
</tr>
<tr>
<td>Material and Supply Fee</td>
<td>$2.00-$15.00</td>
<td>$2.00-$15.00</td>
</tr>
<tr>
<td>Late Registration Fee (students who initially register during Late Registration)</td>
<td>$100.00</td>
<td>$100.00</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>$100.00</td>
</tr>
<tr>
<td>Returned Check Fees (checks returned for any reason):</td>
<td>$25.00</td>
<td>$25.00</td>
</tr>
<tr>
<td>Check amounts up to $50.00</td>
<td>$25.00</td>
<td>$25.00</td>
</tr>
<tr>
<td>Check amounts over $50.00 and less than $300.00</td>
<td>$30.00</td>
<td>$30.00</td>
</tr>
<tr>
<td>Check amounts over $300.00</td>
<td>$40.00 or 5%, whichever is greater</td>
<td>$40.00 or 5%, whichever is greater</td>
</tr>
<tr>
<td>Transcript Fee</td>
<td>$5.00 per transcript</td>
<td>$5.00 per transcript</td>
</tr>
</tbody>
</table>

Student Health Fee: Mandatory fee assessed to all students except those enrolled at area campuses (i.e., UCF Cocoa, UCF Daytona,
UCF Downtown, UCF Lake Sumter, UCF Palm Bay, UCF South Orlando, UCF Seminole, and UCF Valencia) and exclusively in
Continuing Education courses.

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. Rates for the 2003-2004 academic year will be available in early July 2003.
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 registration fees. State Employee registration occurs on the last day of Registration for each term, at the time specified on the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term. Should the Employee register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will become invalid and the Employee will be liable for all applicable fees. It is the responsibility of the employee to register on a space-available basis only. The tuition waiver cannot be used for courses that have increased costs. These courses include, but are not limited to, continuing education courses, independent study, supervised research, supervised teaching labs, thesis hours, dissertation, internships, practicums, third attempt repeat courses, co-ops, or applied individualized instruction in Music, Art, or Dance, etc. Any State 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) prior to the fee payment deadline. See the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term for the Fee Payment deadlines. Employees may obtain the “State Employee Tuition Waiver Form and Instructions” from the Registrar’s Office web-site at http://registrar.ucf.edu.

UCF Employee Tuition Policy

All full-time general Faculty, Administrative and Professional (A&P), and University Support Personnel System (USPS) employees of the University of Central Florida who are employed in an established position on the date fees are due and who meet academic requirements, including those employees on sabbatical, professional development, grants-in-aid, and educational leave, 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 the registration fee. UCF Employee registration occurs on the last day of Registration for each term, at the time specified on the Academic Calendar (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term. Should the UCF Employees register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will become 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 (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term for the Fee Payment deadlines. Prior to enrolling into courses each term, enter the Human Resources web site at http://www.hr.ucf.edu/ for eligibility requirements, course restrictions and for the waiver application form.

Tuition 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 (http://www.ucf.edu/toplinks/academic_calendar.htm) for each term for dates and times. The tuition fee waiver cannot be used for courses which require increased costs (such as thesis, dissertation, directed individual study). A “Florida Residency” Affidavit is required to establish Florida residency. A completed “Student Health History” must be filed prior to registration. Inquiries should be directed to the Registrar’s Office (MH 161).

State Tuition Exempt Program (STEP)

Eligible members of the active Florida National Guard may receive a waiver of 50% of tuition and material and supply fees. Registration is on a space-available basis on the last day of Registration at the time specified in the “Academic Calendar” (http://www.ucf.edu/toplinks/academic_calendar.htm.) STEP students should present FNG form 621-5-2 to the Student Accounts Office (MH 107) prior to the fee payment deadline.

Florida Prepaid College Plan

For any student enrolled who has a Florida Prepaid College Plan, the University will automatically defer the portion of the tuition covered under the plan. The plan does not cover the local UCF fees that include the athletic fee, activity and service fee, health fee, campus card fee and material and supply fee. If you do not desire to utilize the Florida Prepaid College Plan, please notify the Student Accounts Office (MH 107) by the fee payment deadline. Note: these fees may change each academic year.

Florida Residency for Tuition Purposes

At University Center of Florida, three offices are responsible for the review of residency for tuition purposes under Florida Statute 220.1201 (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 residency 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 Immigration and Naturalization 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 residence in Florida must be as a bona fide domiciliary rather than for the purpose of maintaining a 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 the 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
   b. Proof of purchase of a home in Florida in which the student resides;
   c. Proof that the student has maintained residence in Florida 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 documents may be considered evidence of domicile even though no one of the following criteria, if taken alone, will be considered 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 employment-related documentation (e.g., W-2 paycheck receipts), other than for employment normally provided on a temporary basis to students or other temporary employment. The document must show 12 consecutive months of Florida employment prior to the first day of classes of the term for which the student 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 periods when not enrolled as a student;
   i. Proof of former domicile in Florida and maintenance of domicile once the student is enrolled;
   j. Proof of reliance upon Florida sources of support;
Financial Information

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 undergraduate student requests for changes in residency.

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 recategorization form must be accompanied by all documents that support the student's Florida residency claim. Residency recategorization requests are subject to Florida Statute 1009.21 (formerly 240.1201), Florida State Board of Education Administrative Code 6A-10.44, and State Board of Education rule 6C-7.005. In addition, University policy requires students requesting residency recategorization 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 recategorization 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 recategorization 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 judgements 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 recategorization 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.

New and continuing students who believe that they qualify for Florida residency must submit the request and all documents 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 recategorization 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 recategorization eligibility determination and it will not complete its review of the residency recategorization application until both the student and the claimant have submitted all requested documents.

k. Proof of domicile in Florida of family;

l. Proof of admission to a licensed practicing profession 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 (notarized 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 stationed 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 university in Florida, a spouse or dependent,

Or

Be a dependent and have lived five years with an adult relative, 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 government,

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 subdivision 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

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.
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 four 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
   c. An awareness of expectations for success at UCF
   d. Information about key academic policies and important deadlines
Academic Advising

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 123)
   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 (MH 145)
   d. 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.

College of Arts and Sciences

Although students may have several advisors for various reasons, majors within the College of Arts and 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 Arts and 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 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 POLARIS Class Schedule Search is also available online at https://connect.ucf.edu each semester, and a SASS Degree Audit is available on POLARIS. Questions about the degree audit should be directed to OASIS unless specific to the major requirements;
3. Continue to register for classes through POLARIS. 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 the transfer advisor in the Office of Student Support (OSS; BA 240) 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 OSS if your major is Business Pending.

Continuing students will:
1. Meet with a faculty advisor or advisors in the OSS 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 POLARIS. Check POLARIS or the TV monitors for registration dates each term;
3. Register at your scheduled appointment time. Register in POLARIS 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 the graduation advisor in OSS 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 building first floor) 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 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. 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 week of the 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 the faculty advisor to review your aca-
demic 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 orienta-
tion 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 POLARIS
at https://connect.ucf.edu;  
5. Register at the scheduled appointment time in POLARIS, or in
person in the Engineering and Computer Science Academic
Affairs Office. Complete all schedule changes by the end of the
published Add/Drop period;  
6. Submit a written schedule plan signed by their faculty 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. (Mechanical and Aerospace will sub-
mit their plan to the MMEA Office ENGR 307); 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 gradu-
tion 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 applica-
tion to the major;  
3. View a SASS Degree Audit through POLARIS; 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 gradu-
ation will occur.

Pre-Health Professions Advisement

The Pre-Health Professions Advisement Office (HPA 124; 407-823-
2670) serves all students preparing for and seeking admission to
professional schools of chiropractic, dentistry, medicine, osteopathic
medicine, optometry, pharmacy, podiatry, and veterinary medicine.
The services range from basic advising in pre-health professions
matters, to providing a Composite Evaluation of the student to each
professional school to which the student applies (upon his/her
request after at least 30 semester hours of typical undergraduate
pre-health professions courses taken at UCF).

Pre-Health Professional Planning

Preprofessional advisement deals primarily with application and admission
procedures. Admission to a health professional school is highly competitive. Pre-
health professions students are expected to be high achievers, and to
obtain good grades with heavy loads and rigorous course combi-
nations.

Most professional schools expect applicants to present at least a “B”
average and to carry a minimum of 15 semester hours each term, with
the exception of Summer terms.

Each student is urged to carefully select a degree-granting major.
This will not only allow one to become more competitive for admis-
sion, but also to prepare for an alternate career in the event admis-
sion to a professional school is denied. Any degree-granting pro-
gram may be selected as a major; however, the science majors gen-
erally lend themselves most adequately to pre-health professions
preparation as their curricula includes many courses required for
admission to most professional schools.

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 partici-
pate 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 fall
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, admis-
sion 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).

Choosing a Major and Academic Advisement

The advantage of declaring a major early is to be linked with an aca-
demic advisor within his or her chosen degree track. Problems are
less likely when students remain in contact with advisors.

Terms such as "Premed" or "Prevet" should not be confused with
offering premedical preparation.

Traditional majors for pre-health professionals are characterized by
degree requirements which overlap most professional school admis-
sion requirements such as Chemistry, Biology, Molecular Biology and
Microbiology.

If a student elects a non-traditional pathway and does not complete
more than the minimum science requirements, she or he will be
expected to have accomplished an outstanding performance record
in the science classes taken.

The curriculum for the first two years is very similar for all pre-health
professions students. Professional schools are less concerned with
what undergraduate major one chooses, than with how well he or
she performed and his or her choice of enrichment electives.

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 phar-
cacy) are encouraged to return completed packets by May 1.

All students should be aware of registration deadlines and test dates
for their specific admissions exam (DAT, MCAT, OAT, GRE, etc.). In
addition, most four-year health professions schools subscribe to pro-
fessional application services (AMCAS, ADDSAS, ACOMAS, etc.)
and thus require completion of a thorough application packet provid-
ed by the various application services. Otherwise, the student appli-
cant must deal directly with the admissions office of the school.
Rosen School 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 major programs of study;
3. Plan an appropriate first semester class schedule; and,
4. Review a SASS Degree Audit or view through POLARIS.

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 POLARIS and contact the Office of Academic Services regarding questions or concerns; and,
4. File an Intent to Graduate Form in the School’s Office of Academic Services (CL1 302) during registration for the graduating term.

The Burnett Honors College

New students will:
Attend the UCF Orientation designated for The Burnett Honors College. At this time students will meet with all Honors staff and will learn about The Burnett Honors College courses and GPA requirements.

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.
3. Contact the office of Honors Advising (BHC 107) and based on the recommendation from their academic advisor and the requirements for University Honors, an Honors Advisor will assist with Honors course selection;
4. Continue to register for classes online; and,
5. Check their “Fee Invoices/Schedule” to ensure accuracy of class schedule.
6. Attend any mandatory Honors advising appointments.

Area Campus System

Area 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 Area 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 Area Campus System, see ‘UCF Area Campuses’ within the "University of Central Florida" chapter of this Undergraduate Catalog.
The Office of Transfer Services provides the following services and the Messenger feature allows you immediate access to staff during regular business hours.

Students transferring with an A.A. 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 Assistant Director of Transfer Services.

Where Can I Go For Help?

For information or assistance during the transfer process, you may contact the Office of Transfer Services, located in Howard Phillips Hall, room 102. Call the Student Hotline at 407-823-5959 or visit the Transfer Services 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 Services provides the following services and resources:

-准确和当前有关大学课程和政策包括入学和出口要求，以及有关信息：
- 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 transfer students who are undeclared majors, undecided, or changing majors.

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 require special application deadlines, GPA requirements, 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.;
- 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.

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. If you have met all the A.A. requirements except the CLAST, you must satisfy UCF’s general education requirements and Gordon Rule courses. No grade forgiveness is given without the A.A. awarded. If your grade point average falls below a 2.0 (without grade forgiveness), you may not be admitted.

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.

Students entering the College of Education must pass the CLAST before enrolling in upper division education courses. Students majoring in Education may not use waivers or alternatives to satisfy CLAST requirements. Education majors who have used alternatives or waivers should speak with an advisor in the College of Education Office of Student Support.

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 one year of college instruction. Some majors require additional proficiency. Consult the UCF Undergraduate Catalog for graduation requirements for specific majors. Neither high school courses nor American Sign Language proficiency will 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 will be mailed to you. The TSR 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; 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.

Assistant Director: Charlene A. Stinard, PH 102
Orlando, FL 32816-0123
407-823-5959 or Fax: 407-823-3955
E-mail: tservices@mail.ucf.edu
Website: http://transfer.sdes.ucf.edu

UCF
Transfer Services

When Do I Pay My Bill?

For students taking courses at UCF for the first time, tuition and fee payments are due by the published deadline before classes begin. Students will receive a copy of their fee invoice at orientation or can print one online from POLARIS (https://connect.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 POLARIS. 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; 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 website at http://honors.ucf.edu.

Transfer Tips:
Office Visits for Transfer Advising

- Students are encouraged to contact the Office of Transfer 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 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 fee payments are due by the published deadline, before classes 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 with-out 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.

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 http://connect.ucf.edu
- ___/___ 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 SCHOLARSHIP application mailed or transfer notice sent to appropriate office
- ___/___ date SCHOLARSHIP application response

Housing

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

Immunization

- ___/___ date student health form submitted
- ___/___ need immunizations

Foreign Language Requirements

- ___/___ 2 years/units earned in high school
- ___/___ 8-10 credits earned at the college level
- ___/___ credits to be taken at the university
- ___/___ exempt from foreign language admission requirements

Note: Although American Sign Language may be used to satisfy the UCF admission requirement, it cannot be used to satisfy graduation requirements that may be required by the specific major.

Program (Major) Requirements

- ___/___ limited access application
- ___/___ completed prerequisites
- ___/___ met grade point average (GPA) requirements
- ___/___ met minimum cumulative GPA for admission to program of study
- ___/___ met cumulative GPA in courses taken for program of study
- ___/___ met grade requirements for designated courses
- ___/___ audition/portfolio additional admission requirements met
- ___/___ CLAST exam or alternatives

Orientation:
- ___/___ orientation date at UCF
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, 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 School 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 with the approval of Enrollment and Academic Services. Students should consult both with an advisor and with Enrollment and Academic Services before submitting any 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

Communication Foundations
Courses in this area include content from one or more of the items below that teach students to understand:

- the writing process and use it to communicate persuasively for a variety of purposes, including analysis and argumentation;
- identify and write for specific audiences in order to select and narrative events and ideas;
- think critically about and research appropriate academic topics, synthesize and articulate the results of that research, and apply appropriate documentation;
- present and exchange ideas in public speaking using effective organization of words and appropriate use of visual aids, and effective extemporaneous delivery;
- understand the communication theories that are applied to public speaking situations.

Cultural and Historical Foundations
Courses in this area include content from one or more of the items below that teach students to:

- understand history and culture in the context of diverse human experience;
- appreciate the arts and humanities and how they mirror cultural and artistic values of others;
- think critically about the past and about the evolution of science, society, and culture.

Mathematical Foundations
Courses in this area include content from one or more of the items below that teach students to:

- understand and use quantitative concepts and be able to solve mathematical problems through the application of fundamental laws;
- reason critically, think creatively, assess evidence and form conclusions;
- use skills in logic, inductive and deductive reasoning and abstract and quantitative thinking;
- use knowledge of basic laws of probability in the collection, classification, and use of data.

Social Foundations
Courses in this area include content from one or more of the items below that teach students to:

- understand the working of governmental structures;
- understand the process by which individuals and groups allocate resources;
- analyze the structure of current or past societies, cultures, and institutions;
- understand human behavior and describe the development of sen-
sory processes, motivation, emotion, learning, cognition, intelli-
gence, and personality.

Science Foundations
Courses in this area include content from one or more of the items
below that teach students to:
- demonstrate knowledge of the theories, laws, principles and rules
  of the physical and life sciences;
- demonstrate an understanding of the scientific method by applying
  the principles of logic to the solution of scientific problems;
- describe the human species as it has evolved over time and across
  cultures;
- understand the earth's living systems, their interaction, and the
  effects of change on them.

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 stu-

Appeals of transfer credit decisions should be directed to Academic
Services (MH 210). Substitution requests for college or major require-
ments 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:

<table>
<thead>
<tr>
<th>GEP Requirements</th>
<th>Acceptable Substitutions</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1105 (College Algebra)</td>
<td>MAC 1114, MAC 2233, MAC 2253, MAC 2254, MAC 2311, MAC 2312, MAC 2313</td>
</tr>
<tr>
<td>ECO 2013 (Macroeconomics)</td>
<td>Any higher level ECO course which has ECO 2013 as a prereq-</td>
</tr>
</tbody>
</table>
Undergraduate Degree Requirements

Diversity Requirement
The University recognizes that communities are comprised of, and enriched by, people of diverse backgrounds. 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 also 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
- SYG 2000 General Sociology
- ANT 2000 General Anthropology
- POS 2041 American National Government
- PSY 2012 General Psychology
- WOH 2022 World Civilization II
- LIT 2120 World Literature II

Other Courses:
- AMH 3421 History of Florida to 1845
- AMH 3423 Florida History 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
- C CJ 4463 Cultural Diversity in Criminal Justice
- CCJ 4670 Women and Crime
- CJE 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
- NUR 3809 Transitional Concepts in Nursing I
- NUR 3817 Promoting Healthy Communities
- NUR 3816 Promoting Healthy Families Across the Lifespan
- PAP 4446 Multiculturalism in Public Administration
- PLA 4020 Law and Society
- PLA 4830 World Legal Systems
- PLA 4XXX Employment Discrimination
- POS 3627 Cultural Pluralism and Law/S
- POS 4323 Women and Politics
- POS 4622 Politics and Civil Rights
- PUP 3314 Minority Politics
- SOW 4320 Social Work with Minorities
- SPW 4772 Black Presence in Contemporary Latin America
- SVD 3800 Sex Roles in Modern Society
- SYP 4323 Social Systems and Diversity
- SYP 4734 Minority Aging
- SYP 4323 Social Systems and Diversity
- THE 2320 Commonality within Cultural Diversity Experiences
- 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 the 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 second 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 I) 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 Office of Counseling and Testing will offer the Foreign Language Proficiency Examination periodically each semester. Students must register in advance with that office to take the examination (SRC 203).
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.

SUS Foreign Language Admission Requirement
Students who have not satisfied the Foreign Language Admission Requirement (two 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 24,000 words of composition in four courses (12 semester hours) 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
### Undergraduate Degree Requirements

may be used to satisfy the Gordon Rule. “Gordon Rule” requirements may be satisfied by the General Education Program as follows:

**Gordon Rule Requirement:** GEP Courses Which Satisfy:

1. Six hours of mathematics at the level of college algebra or higher
   - (1) College algebra or finite math
   - (2) Statistics or computer science

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

2. 12 hours of course work in which the student must
   - (1) Six hours of English composition
   - (2) Six-hour sequence of Western Humanities, World History, U.S. History, or Western Civilization

All literature and composition courses taught by the Department of English, and each of the courses listed below fulfill 6,000 words of the composition portion of the “Gordon Rule” Requirement.

Additional specific upper level courses also may be used to meet the Gordon Rule composition requirement. Consult OASIS for information.

| ADV 4101 | Adv Copy and Campaigns |
| JOU 3100 | News Reporting |
| JOU 4302 | Editorial/Column Writing |
| JOU 4310 | Freelance Writing |
| JOU 4300 | Feature Writing |
| JOU 4104 | Public Affairs Reporting |
| JOU 4306 | Critical Writing |
| PUR 4800 | Public Relations Campaigns |
| RTV 3501 | Broadcast Copywriting |
| RTV 3300 | Broadcast Newswriting |
| RTV 4402 | Broadcast Criticism |
| THE 4072 | Principles of Motion Picture Art |

Each of the courses listed below fulfill 3,000 words of the composition portion of the “Gordon Rule” Requirement.

| 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 4140 | Jeffersonian America |
| AMH 3540 | Military History |
| AMH 3560 | Women in American History |
| AMH 3571 | Black American History |
| AMH 3800 | Canadian History |
| AMH 4110 | Colonial America, 1607-1763 |
| AMH 4130 | The Age of the American Revolution, 1763-1789 |
| AMH 4170 | Civil War and Reconstruction |
| AMH 4160 | Jacksonian America |
| AMH 4201 | Robber Baron Era |
| AMH 4231 | United States History: 1914-1945 |
| AMH 4270 | United States History: 1945-Present |
| AMH 4311 | American Culture I |
| AMH 4313 | American Culture II |
| AMH 4510 | Rise of the US to World Power, 1776-1914 |
| AMH 4511 | US as a Great Power: 1914-Present |
| ANT 3145 | Archae of Complex Soc |
| ANT 3162 | Archae of Mid and S.Am |
| ANT 3163 | Mesozoic Arch |
| ANT 3168 | Maya Arch |
| ANT 3930 | Seminar in Arch Meth |
| ARH 4350 | Baroque Art |
| ARH 4430 | 19th Century Art |
| ARH 3456 | Art After 1945 |
| ARH 4450 | 20th Century Art |
| ARH 4555 | Meso American Art |
| ASH 3300 | Survey of East Asia |
| ASH 4404 | China in 19th and 20th Centuries |
| ASH 4442 | Modern Japan, 19th and 20th Centuries |
| EUR 3122 | Medieval Society and Civilization |
| EUR 3142 | Renaissance and Reformation |
| EUR 3235 | Romanticism and Realism |
| EUR 3242 | Modern Europe of the First World War |
| EUR 3281 | Second World War and Rebirth of Europe |
| EUR 3411 | Ancient Rome |
| EUR 3651 | War and Society |
| EUR 4284 | Fascism and the Totalitarian Dictatorships |
| EURH 3651 | History of Modern France |
| EURH 4461 | Rise of Modern Germany |
| EURH 4465 | Hitler’s Third Reich |
| EURH 4500 | English History to 1485 |
| EURH 4501 | English History: 1485-1815 |
| EURH 4502 | British History: 1815-Present |
| EURH 4530 | British Empire and Commonwealth |
| EURH 4571 | History of Russia to 1801 |
| EURH 4574 | History of Russia 1801-1917 |
| EURH 4576 | History of Russia in the 20th Century |
| EURH 4620 | European Great Powers: 1815-1914 |
| EURH 4621 | War and International Politics in Europe 1914-Present |
| HIS 4150 | History and Historians |
| HUM 3431 | Ancient Humanities |
| JOU 4300 | Feature Writing |
| JOU 4181 | Public Affairs Reporting |
| JOU 4306C | Critical 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 |
| PHH 3100 | Ancient Philosophy |
| PHI 2630 | Ethics |
| PHI 3800 | Aesthetics |
| PHI 3803 | Philosophy and Creativity |
| PLA 3155 | Legal Writing |
| RTV 4403 | Electronic Media, Technology and Society |
| SOW 3104 | Assessing I: Human Development |
| SYP 3400 | Social Change |

### 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 course work. 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 may 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 hours of credit** 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 Waiver Committee (PH 107).

CLAST is offered statewide once per term. Students must register in advance at the Student Academic Resource Center (PH 115) or at the Registrar’s Office (MH 161). Additionally, students may retake the English Language Skills, Reading, and/or Mathematics subtests on computer at the Counseling and Testing Center/Test Office, SRC 212. 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 the Student Academic Resource Center (PH 115); 407-823-5130.

Academic advising offices within each college and Academic Support and Advising Programs also can answer questions students may have.

#### 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 sub-test of the CLAST due to a disability may request that a sub-test of the CLAST 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 Academic Support and Advising Programs (PH 107) to complete a petition to waive a CLAST sub-test. The CLAST Waiver Committee reviews all requests for waivers.
on a case by case basis. For disability registration information, contact Student Disability Services at 407-823-2371. For CLAST waiver petition information, call Academic Support and Advising Programs at 407-823-6630.

**Summer Attendance Requirement**

A student entering the State University System with fewer than 60 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 during Registration for their last term (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 semester may not be listed in the Commencement Program. Graduating students must be enrolled at UCF during the term of graduation. Graduates may contact the Registrar’s Office for Commencement ceremony and guest ticket information or refer to [http://graduation.ucf.edu](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.nerc.ufl.edu. Website: [http://www.doc.ufl.edu/indstudy](http://www.doc.ufl.edu/indstudy).

**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](http://www.doce.ufl.edu/indstudy) for further information.
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). Spring Registration begins following midterm for the Fall Semester. Summer and Fall registrations begin following the midterm of the Spring semester. Class listings are available only online through the POLARIS Class Schedule Search at https://connect.ucf.edu

Registration is available over the web using the POLARIS system at https://connect.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/toplinks/academic_calendar.html.

Schedule Web Guide
The Schedule Web Guide is published online twice each year: the Summer/Fall edition and the Spring edition. The Schedule Web Guide provides the official "Academic Calendar" and describes the policies and procedures governing registration each term. The Schedule Web Guide is distributed through the colleges, schools, and departments, by the Registrar’s Office, and is available on the Registrar's website at http://registrar.ucf.edu.

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 semester hours. 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
Credit Hours
Full Time
12 or more
Half Time
6-11
Less Than Half Time
less than 6

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

Credit Hour Limits
Undergraduate students are limited to 17 credit hours each term. The department chair and college advising office must approve overrides.Overrides may be processed at the college advising offices. Graduate students are limited to 17 credit hours (15 for some programs in Health and Public affairs) each term. Departments must approve overrides added at the college advising offices. Doctoral students must register for a minimum of nine credit hours for two contiguous terms to meet the doctoral residency requirement.

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 POLARIS system at https://connect.ucf.edu. To obtain an immediate release for financial holds, 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 through the first three to five days of each term (as listed in the “Academic Calendar”). Add/Drop may be used using the POLARIS system (https://connect.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 “2002-2003 Tuition and Fees 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 or 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,” and 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 complete the required forms during the last hours of registration as noted in the “Academic Calendar” online at http://www.ucf.edu/toplinks/academic_calendar.html. Direct student expenses after the completion of registration include the campus ID card, vehicle registration and textbooks.

State of Florida Employee Registration
Effective with Summer 2003 term 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/toplinks/academic_calendar.html. For waiver eligibility and application information, see “Tuition Waivers” within the “Financial Information” chapter of this Undergraduate Catalog. Effective with Summer 2003 term 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/toplinks/academic_calendar.html. 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 of Florida employees and State Tuition Exemption Program (STEP-National Guard) students register on a space-available basis only. State employees are required to submit the “State Employee Tuition Fee Waiver Form” which may be obtained from the Registrar’s Office website at http://registrar.ucf.edu. Registration before the time specified in the “Academic Calendar” online at http://www.ucf.edu/toplinks/academic_calendar.html will result in the student being assessed regular fees. The tuition fee waiver cannot be used for courses that require increased costs, including, but not limited to courses offered through the Center for Continuing Education, independent study, supervised research, supervised teaching labs, thesis hours, dissertation, internships, co-ops, practicums, or applied, individualized instruction in music, art, or dance. Eligible members of the active Florida National Guard may receive a waiver of 50% of tuition and material and supply fees. Registration is on a space-available basis during the last hours of registration as noted in the “Academic Calendar” online at http://www.ucf.edu/toplinks/academic_calendar.html. STEP students must present a “Certification” letter to the Student Accounts Office (MH 107) to receive waiver of eligible fees.
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 resolution in favor of the student, the withdrawal request will be processed at the time. The individual empowered to rule on the student appeal 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</th>
<th>Semester Hour of Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
<td></td>
</tr>
<tr>
<td>A+</td>
<td>3.75</td>
<td></td>
</tr>
<tr>
<td>A-</td>
<td>3.25</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
<td>B+</td>
<td>2.75</td>
<td></td>
</tr>
<tr>
<td>B-</td>
<td>2.25</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
<td></td>
</tr>
<tr>
<td>C+</td>
<td>1.75</td>
<td></td>
</tr>
<tr>
<td>C-</td>
<td>1.25</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>D+</td>
<td>0.75</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
<td></td>
</tr>
<tr>
<td>NC - No Credit</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* Available only in 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 2014.

Other Actions

<table>
<thead>
<tr>
<th>Grade Points</th>
<th>Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>I</td>
<td>Incomplete</td>
</tr>
<tr>
<td>N</td>
<td>No grade reported by instructor</td>
</tr>
<tr>
<td>R</td>
<td>Repeated course (Grade Forgiveness)</td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory (w/credit)/Satisfactory Progress</td>
</tr>
<tr>
<td>T</td>
<td>(followed by grade) Subsequently repeated (no credit)</td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory (no credit)</td>
</tr>
<tr>
<td>W</td>
<td>Withdrawn</td>
</tr>
<tr>
<td>WF</td>
<td>Withdrawn Failing</td>
</tr>
<tr>
<td>WH</td>
<td>Health Form Withdrawal</td>
</tr>
<tr>
<td>WM</td>
<td>Medical Withdrawal</td>
</tr>
<tr>
<td>WP</td>
<td>Withdrawn Passing</td>
</tr>
<tr>
<td>X</td>
<td>Audit (no credit)</td>
</tr>
</tbody>
</table>

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.

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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Grade</th>
<th>Hours</th>
<th>Grade Points</th>
</tr>
</thead>
<tbody>
<tr>
<td>#1</td>
<td>B+</td>
<td>3</td>
<td>9.75</td>
</tr>
<tr>
<td>+</td>
<td>Course #2</td>
<td>A-</td>
<td>11.25</td>
</tr>
<tr>
<td>+</td>
<td>Course #3</td>
<td>A</td>
<td>16</td>
</tr>
<tr>
<td>+</td>
<td>Course #4</td>
<td>B</td>
<td>9</td>
</tr>
<tr>
<td></td>
<td></td>
<td>13</td>
<td>46</td>
</tr>
</tbody>
</table>

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

\[ \text{GPA} = \frac{46}{13} = 3.54 \]

Overall 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 overall grade point average entering this term would be 162/54 = 3.00. Including this term of coursework, the overall grade point average would be \((162 + 46)/(54 + 13) = 1.30\).

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. 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 POLARIS at https://connect.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 WDSC 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
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 who 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 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. 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)
Temporal:
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
The President’s Honor Roll Certificate is awarded in recognition of scholastic honors to regular undergraduate students who register for and complete 12 or more hours, excluding satisfactory/unsatisfactory course work, and who maintain a 4.0 GPA with no “I” or “U” grades for the given term or who complete 15 semester hours during any two consecutive semesters/term at UCF with no more than 11 hours in any one term, excluding satisfactory/unsatisfactory work, and who maintain a 4.0 GPA for the two semesters/term with no “I” or “U” grades. 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 for students who earn a minimum 3.4 GPA with no grade less than “C” (2.0) and no “I” or “U” grades during a term. To be eligible for the Dean’s List, students must register for and complete a minimum of 12 credit hours in a Fall or Spring semester or nine credit hours in a Summer term at UCF.

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 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. Attain at least a 3.2 overall grade point average; and,
3. Honors awarded will be:
- Summa Cum Laude for those students in the upper 10 percent;
- Magna Cum Laude for those students in the upper five percent, but not in the upper 10 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.

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 lower grade and thus raise the GPA. “Grade Forgiveness Request Forms” are available in the Registrar’s Office (MH 161) or on the Registrar’s website, 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 and “I” 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. 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 previous 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 may substitute a course different from the original one if: 1) the substitute course reflects a change in prefix, number, hours, or title but not in substance; or 2) the substitute course replaces a course no longer offered by UCF.

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

Academic Standing

All academic actions are shown on POLARIS at https://connect.ucf.edu and on the transcript. The action is generated due to course completion. Changing a course grade does not necessarily change academic action. 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 making unsatisfactory progress of their need to alter study habits and seek additional counseling. Early recognition will indicate to the student the possibility 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 semesters following disqualification. Readmission after two semesters is not automatic. A disqualified student must submit an application for readmission supported by a letter indicating the reasons for previous academic difficulties and plans for achieving a GPA of 2.0 or better. The letter must be reviewed and action on readmission will be taken by the University Registrar. When the University Registrar can not make a favorable decision, cases will be referred to the Admissions and Standards Committee. Any Disqualified student whose UCF grade point deficiency is equal to or greater than 15 grade points is not eligible for readmission (unless in the opinion of the Admissions and Standards Committee there are documented extenuating circumstances). For readmission purposes only, the term “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 cumulative 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 are documented extenuating circumstances).

Good Standing

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

Earning Credit While Disqualified or Excluded

Students disqualified or excluded while a freshman or sophomore who subsequently receive an A.A. or a specific statewide articulated A.S. degree with a minimum “C” average (2.0 GPA) on all college work attempted from a Florida public community college may be readmitted to the University with credit earned in accordance with standard University policies. Students who attend other colleges or universities following disqualification will be classified as transfer students and their readmission will be based on their total educational record.

Readmission

Readmission Following Separation

A student must submit a “Readmission Application Form” to the Registrar’s Office if the student has been academically suspended from UCF (see “Readmission Following Suspension” below) or if the student has not enrolled at UCF for two consecutive semesters (not including the summer term). The Readmission application is available at the Registrar’s Office (MH 161) or on the web at http://registrar.ucf.edu. Deadlines for submitting applications can be found in the “Academic Calendar,” online at http://www.ucf.edu/pr_ABORT/aademic_calendar.html. The application deadline for “Readmission as an Exception to University Policy” is as follows: for Summer, April 15; for Fall, July 15; and for Spring, November 15.

If the student has attended another regionally accredited institution since leaving UCF, the student must request an official transcript be sent to the Registrar’s Office. If the student was previously admitted to a UCF limited-access program, the student will be placed in pending status for that major. The student must apply to the college or program for readmission to the program. 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. Contact the Registrar’s Office (MH 161) for eligibility requirements. Plus or minus grades will transfer for course work earned Fall 2001 and after using UCF’s grade point system.

Any readmitted student whose UCF cumulative 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 regionally-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.

A student who has previously attended UCF as “degree-seeking” and who desires to pursue a second bachelor’s degree must apply by completing the “Readmission Application Form.” If the student still is actively enrolled in the University, the student will not be subject to the readmission process and the enrollment status will be updated to “second-degree seeking.”

Readmission Following Disqualification, with a Grade Point Deficiency of Less than 15 Grade Points

A student who has been academically disqualified by UCF (grade point deficiency less than 15 grade points) who has completed the two semester academic suspension period may petition for reinstatement by submitting the “Readmission Application Form” to the Registrar’s Office. For readmission purposes only, the term 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. The petitioning student must satisfy the following requirements before a decision will be made. The student must:

1. Submit a written statement indicating the reason for the previous academic difficulties and a plan for ensuring success in future semesters:
   a. The written statement should be limited in length to one typed page; it must be signed and dated, and must include the student’s UCF Identification number;
   b. A “Readmission Application Form” not accompanied by the required written statement will not be reviewed, nor will it be forwarded to the Admissions and Standards Committee;

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 transcripts from all other schools attended during suspension (if applicable).

The Registrar’s Office will process the readmission petition only when it receives all of the documents listed above. The Registrar’s Office may elect to forward the student’s petition to the Admissions and Standards Committee. If the Admissions and Standards Committee reviews the file, the student will be afforded the opportunity to personally appear before the Committee before it renders a decision.

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 (grade point deficiency less than 15 grade points) who has not completed the academic suspension period may petition for reinstatement by submitting the “Application for Readmission as an Exception to University Policy Form” to the Registrar’s Office. For readmission purposes only, the term 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. The Registrar’s Office will forward all petitions directly to the Admissions and Standards Committee. The petitioning student must satisfy the following requirements before the Registrar’s Office will forward the request to the Committee. The student must:

1. Submit a written statement indicating the reasons for the previous academic difficulties and a plan for ensuring success in future terms. This statement must provide significant information supporting the student’s request to readmit prior to completing the full suspension. The Committee will approve the request only if the documented information provided indicates that the reasons for the student’s poor academic performance were beyond the student’s control:
   a. The written statement should be limited in length to one typed page; it must be signed, dated, and include the student’s UCF Identification number;
   b. A “readmission prior to completion of suspension” petition not accompanied by the required written statement will not be reviewed, nor will it be forwarded to the Admissions and Standards Committee;

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;

3. Submit transcripts from all other schools attended during suspension (if applicable); and,

4. Order one official copy of the UCF transcript. The Registrar’s Office will forward this transcript to the Admissions and Standards Committee.

Students should ensure that the written statement and supporting documents contain all information required to support the petition for early reinstatement as they are not afforded a personal appearance before the Committee.

Disqualified students are limited to one readmission appeal during the disqualification period.

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

Students who are disqualified (grade point deficiency of 15 grade points or more) or who have been excluded are not eligible for readmission to the University. For readmission purposes only, the term 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. Exception to this policy may be approved in rare cases by the Admissions and Standards Committee where the reason for the poor academic performance was due to documented extenuating circumstances.

A student who believes this to be the case must:

1. Submit 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 must include the student’s UCF Identification number;
   b. Documents which support and or verify the extenuating circumstances,
   c. A “Readmission Application Form” not accompanied by the required written statement will not be reviewed, nor will it be forwarded to the Admissions and Standards Committee; and,
   d. Transcripts from all other schools attended during suspension (if applicable).

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 Petitions

Disqualified students are limited to one readmission appeal during their disqualification period. Excluded students are limited to one readmission appeal 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/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.

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 petitions from: 1) persons denied admission; 2) former students seeking Readmission
as an Exception to University Policy following academic disqualification or exclusion; 3) students requesting to continue in school, but who have failed to meet CLAST requirements; and 4) students appealing prior decisions rendered by the Admissions and Standards Committee.

Right of Appeal
Each person whose petition has been denied by the Admissions and Standards Committee may request that the Committee reconsider its original decision regarding such petition but the Admissions and Standards Committee is not obligated to grant such request. To appeal any Admissions and Standards Committee decision under this policy, the appellant must submit a written request that the Admissions and Standards Committee consider reviewing its original decision in light of new and compelling evidence that was not known or reasonably could not have been known by the appellant at the time the original petition was considered. The new and compelling evidence must be documented to the satisfaction of the Admissions and Standards Committee, and such documentation must be attached to the appeal.

The appeal should be limited in length to one typed page; it must be signed, dated, and include the appellant's UCF Student Identification Number. Appeals that do not satisfy the content and format requirements defined in this section will not be considered by the Admissions and Standards Committee.

The appeal will be submitted to:
Chair, Admissions and Standards Committee
Division of Student Development and Enrollment Services
University of Central Florida
4000 Central Florida Blvd.
Millican Hall 282
Orlando, FL 32816

Upon receipt of both the appeal and all required supporting documentation, the Admissions and Standards Committee will consider whether or not to review its original decision. The Admissions and Standards Committee will advise the appellant of its decision, which is final.

Athletic Retention and Eligibility Committee
The Athletic Retention and Eligibility Committee (AREC) 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 improving their level of academic achievement and the approval of the AREC. The committee will 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 (12565 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 students' responsibility to make appropriate changes to the address. "Address Change" forms may be obtained from the Registrar's website (http://Registrar.ucf.edu), college advising office, or from the Registrar's Office (MH 161). Address and e-mail changes can be made in the Registrar's Office or on POLARIS (https://connect.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 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 cash, check or money order (made payable to UCF), credit card, or UCF Card. Requests received by mail must be accompanied by a check, money order, or credit card information (i.e., card type, card number, 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.

Unofficial transcripts are available from the UCF kiosk outside the Registrar's Office (MH 161). Grades are available from POLARIS at https://connect.ucf.edu.

Third Attempt Course Repeat Surcharge
All students enrolled in undergraduate courses for the Fall 1999 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 only on extenuating circumstances, or financial hardship.

Extenuating 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 considered.

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

Major and Minor Changes

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 School of Hospitality Management) must adopt the most current catalog. Students changing from a declared major to an "Undeclared" or "Undecided" major 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: Literature 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 residence, 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 (i.e., 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.

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 a record that he or she believes is inaccurate or misleading. The student should write the University official responsible for the record, clearly identify the part of the record to be amended, and specify the correct information. 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.

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
- enrollment status
- degrees and awards received
- participation in officially registered activities and sports
- athletes' height and weight.

All other student information will be released in accordance with FERPA; in most cases this requires the student's prior written and signed consent. The University extends to students the opportunity to withhold any or all information, including “directory information.” To do this, students must complete the “Directory Disclosure/Release Authorization” form available at the Registrar’s Office (MH 161) or online at http://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/fpco/.

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 http://pegasus.cc.ucf.edu/~ensrscv/registrar/HEA.html.

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, international baccalaureate, accelerated education, DANTES, and the International Baccalaureate. 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, international baccalaureate, accelerated education, DANTES, and the International Baccalaureate. 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, international baccalaureate, accelerated education, DANTES, and the International Baccalaureate.
### ADVANCED PLACEMENT EXAMS

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<th>GEP Usage</th>
<th>Score of 4</th>
<th>GEP Usage</th>
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<td>BSC 2010C and BSC 2011C</td>
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</tr>
<tr>
<td>Studio Art: 2-D Design Portfolio</td>
<td>No direct equivalent</td>
<td></td>
<td>Same as 3</td>
<td>SCI Found 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Studio Art: 3-D Design Portfolio</td>
<td>No direct equivalent</td>
<td></td>
<td>Same as 3</td>
<td>SCI Found 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>United States History</td>
<td>AMH 1000</td>
<td>SCI Found 2</td>
<td>Same as 5</td>
<td>CUL &amp; HIS Found 1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>World History</td>
<td>WOH 2022</td>
<td>CUL &amp; HIS Found 1</td>
<td>Same as 3</td>
<td>CUL &amp; HIS Found 1</td>
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</table>

### INTERNATIONAL BACCALAUREATE

<table>
<thead>
<tr>
<th>Exam (holders only)</th>
<th>4 (Diploma holders only)</th>
<th>5 (Higher-Level only for non-diploma holders; either Standard or Higher Level for diploma holders)</th>
<th>6-7 (Higher-Level only for non-diploma holders; either Standard or Higher Level for diploma holders)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Biology</td>
<td>BSC 1005/1005L</td>
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<td>SCI Found 2</td>
</tr>
<tr>
<td>Chemistry</td>
<td>CHM 1020 &amp; 1020L</td>
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<td>SCI Found 1</td>
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<tr>
<td>Computer Science</td>
<td>CGS 1078</td>
<td>MAT Found 2</td>
<td>MAT Found 2</td>
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<td>Design Engineering</td>
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<td>SCI Found 1</td>
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<td>Economics</td>
<td>ECO 1000</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
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<tr>
<td>English AL</td>
<td>ENC 1101</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Environmental Systems</td>
<td>ISC 1050</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>Further Mathematics</td>
<td>MHF 1202</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>Geography</td>
<td>GEA 1000</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>History</td>
<td>WOH 1030</td>
<td>CUL &amp; HIS Found 1</td>
<td>CUL &amp; HIS Found 1</td>
</tr>
<tr>
<td>Math Methods</td>
<td>MAC 1105</td>
<td>MAT Found 1</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Math Studies</td>
<td>MAT 1053</td>
<td>MAT Found 1</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Mathematics</td>
<td>MAC 1147</td>
<td>MAT Found 1</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Music</td>
<td>MUL 2010</td>
<td>CUL &amp; HIS Found 2</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>Philosophy</td>
<td>PHI 1999</td>
<td>CUL &amp; HIS Found 2</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Physics</td>
<td>PHY 1020C</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Psychology</td>
<td>PSY 2012</td>
<td>CUL &amp; HIS Found 2</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>Social Anthropology</td>
<td>ANT 2410</td>
<td>SOC Found 2</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>Theatre Arts</td>
<td>THE 2000</td>
<td>CUL &amp; HIS Found 2</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>Visual Arts</td>
<td>ARH 1999</td>
<td>CUL &amp; HIS Found 2</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
</tbody>
</table>

* This use for General Education applies only to I.B. credit.
Advanced Placement Program (AP)
See Table, page 60.

Students who have participated in the Advanced Placement Program in high school and have received a score of 3, 4, or 5 on the national examinations will receive college credit in the appropriate subject areas. Students should consult their high school guidance counselor or write to the Educational Testing Service, Princeton, NJ 08540, for additional information. The table labeled “Advanced Placement Exams” provides information related to Advanced Placement examination areas and subtest areas for which credit may be awarded.

Advanced Placement Language (all modern languages)
A score of 3 earns a minimum of one semester (min. 3 credits - XXX 2230 or 2220) of 2000-level language. A score of 4 or 5 earns a minimum of two semesters (min. 6 credits XXX 2230 and 2231 or XXX 2200 and 2201) of 2000-level language. No literature credit will be awarded for AP foreign language exams.

Advanced Placement Literature (all modern languages)
A score of 3 earns a minimum of one semester (min. 3 credits) of introductory literature. A score of 5 earns a minimum of two semesters (min. 6 credits) of introductory literature.

Advanced Placement Latin
The AP Latin course focuses on one or two authors. Students either study Vergil, or follow a “Latin Literature” syllabus that includes Catullus and either Horace, Ovid, or Cicero. A minimum of one semester (min. 3 credits) should be awarded for a score of 3 or higher.

AP Latin: Vergil
LNW 3660
AP Latin: Latin Literature
LNW 3700 (number unique to exam)

International Baccalaureate Program
See Table, page 60.

Students who have participated in the International Baccalaureate program in high school may receive a maximum of 30 hours of credit for scores of four or higher in the subsidiary and higher level program. Students who have participated in the International Baccalaureate program areas. The table below labeled “International Baccalaureate” provides information related to the International Baccalaureate program credit.

International Baccalaureate (all modern languages)
International Baccalaureate offers examinations in many languages and literatures at different levels: B, A2, and A1. Most students in Florida take English as their A1 level language (literature for native or near-native speakers) and one or more foreign Language B exams. Within each category, there are “standard” and “higher” level examinations. Institutions may wish to award additional credit for higher-level exams.

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 Level 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 1121/2200) level. No literature credit will be awarded for International Baccalaureate Language B exams.

Language A2 (language and literature courses for highly proficient speakers; uncommon in Florida)
No direct equivalent. Content of Language A2 varies widely. Minimum 3 credits in language or literature for score of 4 (Diploma holders only), 6 credits of language or literature for a score of 5-7 (all exams for diploma holders, higher level exams only for others).

Language A1 (literature courses for native speakers; languages other than English)
No direct equivalent. Content of Language A1 varies widely. Minimum 3 credits in literature for score of 4 (Diploma holders only), 6 credits for score of 5-7 (all exams for diploma holders, higher level exams only for others).

IB Latin
LNW 3701. This is a unique number assigned to this exam. The IB Latin course includes a reading component and a selection of two out of four authors on a list that changes periodically. Minimum 3 credits for score of 4 (Diploma holders only), 6 credits for score of 5-7 (all exams for diploma holders, higher level exams only for others).

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**COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)**

<table>
<thead>
<tr>
<th>Subject</th>
<th>&quot;C&quot;-level pass.</th>
<th>GEP Usage</th>
<th>&quot;B&quot;-Level Pass</th>
<th>GEP Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Accounting, Principles of</td>
<td>ACG 1001</td>
<td>Same as &quot;C&quot;</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algebra, College</td>
<td>MAC 1105</td>
<td>MAT Found 1</td>
<td>Same as &quot;C&quot;</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Algebra-Trigonometry, College</td>
<td>MAC 1147</td>
<td>MAT Found 1</td>
<td>Same as &quot;C&quot;</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>American Government</td>
<td>POS 2041</td>
<td>SCI Found 1</td>
<td>Same as &quot;C&quot;</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>American Literature</td>
<td>AML 1000</td>
<td>CUL &amp; HIS Found 2</td>
<td>AML 2010 and 2020</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>Biology, General</td>
<td>BSC 1005</td>
<td>SCI Found 2</td>
<td>Same as &quot;C&quot;</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>Business Law, Introduction to</td>
<td>BUL 1241</td>
<td></td>
<td>Same as &quot;C&quot;</td>
<td></td>
</tr>
<tr>
<td>Calculus with Elementary Functions</td>
<td>MAC 2233</td>
<td>MAT Found 1</td>
<td>Same as &quot;C&quot;</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Chemistry, General</td>
<td>CHM 1020</td>
<td>SCI Found 1</td>
<td>Same as &quot;C&quot;</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Educational Psychology, Introduction to</td>
<td>EDP 1002</td>
<td></td>
<td>Same as &quot;C&quot;</td>
<td></td>
</tr>
<tr>
<td>English Composition with Essay</td>
<td>ENC 1101</td>
<td>COM Found 1</td>
<td>Same as &quot;C&quot;</td>
<td>COM Found 1</td>
</tr>
<tr>
<td>English Literature</td>
<td>ENL 1000</td>
<td>CUL &amp; HIS Found 2</td>
<td>ENL 2012 and ENL 2022</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>History of the United States I: Early Colonizations to 1877</td>
<td></td>
<td></td>
<td>AMH 2010</td>
<td>CUL &amp; HIS Found 1</td>
</tr>
<tr>
<td>History of the United States II: 1865 to Present</td>
<td></td>
<td></td>
<td>AMH 2020</td>
<td>CUL &amp; HIS Found 1</td>
</tr>
<tr>
<td>Human Growth and Development</td>
<td></td>
<td></td>
<td>DEP 2004</td>
<td>CUL &amp; HIS Found 1</td>
</tr>
<tr>
<td>Information Systems and Computer Applications</td>
<td>CGS 1077</td>
<td>MAT Found 2</td>
<td>Same as &quot;C&quot;</td>
<td>MAT Found 2</td>
</tr>
<tr>
<td>Macroeconomics, Principles of</td>
<td></td>
<td></td>
<td>ECO 2013</td>
<td>SOC Found 1</td>
</tr>
<tr>
<td>Management, Principles of</td>
<td>MAN 2021</td>
<td></td>
<td>Same as &quot;C&quot;</td>
<td></td>
</tr>
<tr>
<td>Marketing, Principles of</td>
<td>MAR 2011</td>
<td></td>
<td>Same as &quot;C&quot;</td>
<td></td>
</tr>
<tr>
<td>Mathematics, College</td>
<td>MGF 1107</td>
<td>MAT Found 1</td>
<td>Same as &quot;C&quot;</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Microeconomics, Principles of</td>
<td></td>
<td></td>
<td>ECO 2023</td>
<td>SOC Found 1</td>
</tr>
<tr>
<td>Psychology, Introductory</td>
<td></td>
<td></td>
<td>PSY 2012</td>
<td>SOC Found 2</td>
</tr>
<tr>
<td>Sociology, Introductory</td>
<td>SYG 2000</td>
<td>SOC Found 2</td>
<td>Same as &quot;C&quot;</td>
<td>SOC Found 2</td>
</tr>
<tr>
<td>Trigonometry</td>
<td>MAC 1114</td>
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<td>Same as &quot;C&quot;</td>
<td>MAT Found 1</td>
</tr>
<tr>
<td>Western Civilization I: Ancient Near East to 1648</td>
<td></td>
<td></td>
<td>EUH 2000</td>
<td>CUL &amp; HIS Found 1</td>
</tr>
<tr>
<td>Western Civilization II: 1648 to Present</td>
<td></td>
<td></td>
<td>EUH 2001</td>
<td>CUL &amp; HIS Found 1</td>
</tr>
</tbody>
</table>
Credit may be awarded for CLEP foreign language exams.

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, nor 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 subtest areas 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.

### 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.

### CAMBRIDGE AICE EXAMS

<table>
<thead>
<tr>
<th>Exams</th>
<th>Passing score of &quot;E&quot; or &quot;D&quot;</th>
<th>GEP Usage</th>
<th>Passing score of &quot;C&quot;, &quot;B&quot;, or &quot;A&quot;</th>
<th>GEP Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art and Design (AS-Level)</td>
<td>Credit at discretion of faculty; submission of portfolio recommended</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Art and Design (A-Level)</td>
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<td>same</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Biology (AS-Level)</td>
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<td>BSC 1005/1005L</td>
<td>SCI Found 2</td>
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</tr>
<tr>
<td>Biology (A-Level)</td>
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<td>BSC 2010C</td>
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<tr>
<td>Chemistry (AS-Level)</td>
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<td>CHM 1020/1020L</td>
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<tr>
<td>Chemistry (A-Level)</td>
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<tr>
<td>Computing (AS-Level)</td>
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</tr>
<tr>
<td>Computing (A-Level)</td>
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<td>MAT Found 2</td>
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<td>Economics (AS-Level)</td>
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<td>SOC Found 1</td>
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<tr>
<td>Economics (A-Level)</td>
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<tr>
<td>English (AS-Level)</td>
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<tr>
<td>English (A-Level)</td>
<td>ENC 1101</td>
<td>ENC 1101/1102</td>
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</tr>
<tr>
<td>Environmental Science (AS-Level)</td>
<td>EVR 1001C</td>
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<td>SCI Found 2</td>
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</tr>
<tr>
<td>Geography (AS-Level)</td>
<td>GEA 1000</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
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</tr>
<tr>
<td>Geography (A-Level)</td>
<td>GEO 1200 and GEO 1400</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
<td></td>
</tr>
<tr>
<td>History (AS- or A-Level)</td>
<td>Three credits for each successfully passed paper, subject to institutional review</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Exams, AS or A-Level</td>
<td>At least one semester of language credit up to elementary II level (usually 1121)</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>Mathematics (AS-Level)</td>
<td>none</td>
<td>MAC 1147</td>
<td>MAT Found 1</td>
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</tr>
<tr>
<td>Mathematics (A-Level)</td>
<td>none</td>
<td>MAC 2312</td>
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</tr>
<tr>
<td>Physics (AS-Level)</td>
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<td>PHY 1020C</td>
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<tr>
<td>Physics (A-Level)</td>
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</tr>
<tr>
<td>Psychology (AS-Level)</td>
<td>none</td>
<td>PHY 2053C/2054C</td>
<td>SCI Found 1</td>
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<tr>
<td>Psychology (A-Level)</td>
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<td>PSY 2012</td>
<td>SCI Found 2</td>
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</tr>
<tr>
<td>Sociology (AS-Level)</td>
<td>none</td>
<td>SOC Found 2</td>
<td>SCI Found 2</td>
<td></td>
</tr>
<tr>
<td>Sociology (A-Level)</td>
<td>SYG 2000</td>
<td>SOC Found 2</td>
<td>SCI Found 2</td>
<td></td>
</tr>
</tbody>
</table>

**CLEP Examination Requirement for Bright Futures Scholarship Recipients**

Beginning with 2002 high school graduates, Florida Academic or Merit Scholars award recipients who are admitted to and enroll in a State of Florida university or community college are required to use an acceleration mechanism that has the potential to earn college credit in each of the following five academic areas: English, Humanities, Mathematics, Natural Sciences, and Social Sciences.

The acceleration mechanisms that may be used are:

1. **College Level Examination Program (CLEP) attempts.** The student may attempt up to five CLEP examinations before college course work. A CLEP examination may be passed or failed and still satisfy one of the five attempts required by the policy. If a CLEP examination is chosen to meet one of the five attempt requirements, the exam must be taken prior to the student's registration for college courses for which credit may be earned through CLEP examinations and no later than the student's registration for the second semester of college. The State of Florida will pay for up to five CLEP examinations, whether or not the student passes the exam, providing each exam satisfies the Bright Futures requirement. If the student achieves a passing score as determined by the Statewide Articulation Coordinating Committee on any of the five CLEP examinations, UCF will award the student applicable credit toward the required hours of graduation; or

2. **Earned college credit through Advanced Placement (AP) examinations, International Baccalaureate (IB) examinations, and dual enrollment courses completed in the five academic areas before high school graduation.**

The student's maximum number of Bright Futures award hours will be reduced by the number of credit hours earned through CLEP, Advanced Placement and International Baccalaureate examinations and through dual enrollment courses.

It is important that students choose exams that are appropriate for meeting both general education and major program requirements. Bright Futures recipients should work closely with their First Year Coordinator and their advisor in the Articulation Coordinating Committee on any of the five CLEP examinations. If the student earns the Bright Futures award, the student may attempt up to five CLEP examinations before college course work. A CLEP examination may be passed or failed and still satisfy one of the five attempts required by the policy. If a CLEP examination is chosen to meet one of the five attempt requirements, the exam must be taken prior to the student's registration for college courses for which credit may be earned through CLEP examinations and no later than the student's registration for the second semester of college. The State of Florida will pay for up to five CLEP examinations, whether or not the student passes the exam, providing each exam satisfies the Bright Futures requirement. If the student achieves a passing score as determined by the Statewide Articulation Coordinating Committee on any of the five CLEP examinations, UCF will award the student applicable credit toward the required hours of graduation; or

For additional information regarding the Bright Futures requirement,
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, page 62.
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/q_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 on-line 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>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>CCJ 1000</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Environment and Humanity</td>
<td>EVR 1017</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Foundations of Education</td>
<td>EDF 1000</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Fundamentals of Counseling</td>
<td>PCO 1202</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>Here’s to Your Health</td>
<td>HSC 1100</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>Human/Cultural Geography</td>
<td>GEO 1400</td>
<td></td>
<td>C</td>
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<tr>
<td>Introduction to Business</td>
<td>GEB 1011</td>
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<td>CJC 1000</td>
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<td>Lifespan Developmental Psychology</td>
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<td>GLY 1000</td>
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<td>ACG 1001</td>
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<td>Principles of Physical Science I</td>
<td>PSC 1121</td>
<td>SCI Found 1</td>
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<td>Principles of Statistics</td>
<td>STA 1014</td>
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### EXCELSIOR COLLEGE EXAMINATIONS TABLE

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<th>Exam Title</th>
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<td>Abnormal Psychology</td>
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<td>Ethos: Theory and Practice</td>
<td>PHI 1630</td>
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<td>Foundations of Gerontology</td>
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<td>Life Span Developmental Psychology</td>
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<td>Microbiology</td>
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International Studies and Programs
Director: Mathilda E. Harris; 407-882-2300; Fax: 407-275-4386;
Research Pavilion, Suite 263, P.O. Box 163105, Orlando, FL 32816-
3105; http://www.international.ucf.edu/

Three of the University of Central Florida’s five international goals are:
1) to achieve international prominence in key prorams of graduate
study and research; 2) to provide international focus to our cur-
ricula and research programs; 3) to become more inclusive and
diverse. UCF offers a variety of programs that support these goals
by educating students for global competence via internationalized
courses, language offerings, internships and work experiences in
internationally related areas. UCF also offers many types of study-
abroad programs that meet the general education requirements and
the needs of majors in all colleges. The ultimate goal of global edu-
cation is to create a trans-national understanding of the social eco-
nomic, cultural, environmental and political realities of the 21st
Century.

The Office of International Studies (OIS) is a University level office
that serves as a clearinghouse for all international programs and
coordinates such programs within the University. The mission of the
OIS is to create an environment that facilitates the identification,
development, promotion, coordination, and support of high quality
international activities related to the academic mission of UCF. The
on-going development of the international dimension at UCF will be
realized through the implementation of goals and objectives related
to the curriculum, faculty development, policies and planning, aca-
demic support, students, the community, funding, and external agen-
cies.

The general goals stated in the UCF Five-Year Plan for International
Studies are to:
- Infuse the curriculum with international content that will teach
students to think about themselves and their profession within an
interdependent world context and prepare them to think globally
and to be citizens in an interdependent and diverse world;
- Increase the pool of faculty with international expertise in order
to have an impact upon all facets of the academic experience at
UCF;
- Create an environment that encourages the development and
continuation of international programs through appropriate poli-
cies;
- Identify and improve all components of academic support that
are integral to internationalizing UCF;
- Build strong linkages between the international dimensions of
UCF and the Orlando community;
- Develop additional methods of funding international programs
and activities at UCF; and
- Monitor the activities of, and develop contacts with, external
agencies relevant to the international mission of the University.

Study Abroad Programs
UCF offers a large number of study abroad programs to meet the
academic and international interests of students. Overseas study
prepares students in the skills needed to live and work in a global
environment.

Summer Study Abroad Programs
Summer study abroad programs led by UCF faculty are currently
offered in the following countries: Caribbean, France, Germany,
Italy, Japan and Spain, College of Arts and Sciences, Department of
Foreign Languages and Literatures; France, College of Arts and
Sciences, Music Department; Scotland, College of Arts and
Sciences, Art Department; South Africa, College of Health and
Public Affairs; Department of Social Work; Sweden, College of
Health and Public Affairs, Department of Nursing.

Semester and Academic Year Student Exchanges
Semester and academic year student exchange programs are open
to qualifying juniors and seniors who would like to have a more
extensive experience abroad. Established students exchanges are
located in Australia, Griffith University; Canada, University of
Windsor; China, Qingdao University; France, University of Angers;
Germany, University of Koblenz, Ilmenau Technical University;
Japan, Meikai University; Jordan, Princess Sumaya University;
College for Technology; Sweden, Universities of Lund, Jönköping,
Mallardalen, and Dalama; Wales, University of Glamorgan.

State of Florida University System Programs
The State University System (SUS) programs offer high quality and
diverse study abroad experiences for students throughout the State
of Florida. This gives the student the opportunity to meet students
from other Florida universities and to participate in additional pro-
grams not offered directly by UCF. The SUS-wide study abroad pro-
grams are located in England, Italy, and Costa Rica.

National Student Exchange Program
UCF’s membership in the National Student Exchange (NSE) affords
qualifying juniors and seniors the opportunity to spend one semester
or an entire academic year as exchange students at any of the 75
NSE membership institutions in the U.S. In many cases, students on
NSE exchange also may study at one of the more than 50 study
abroad sites associated with individual NSE membership institutions.
This adds a wide array of opportunities to UCF’s own student
exchanges and programs abroad.

The Office of International Studies can advise students on programs
worldwide. For additional information contact the UCF Office of
International Studies; 407-882-2300.

Center for Cooperative Education
and Applied Learning
Director: Sheri Dressler; PH 208; 407-823-2667

The Center for Cooperative Education and Applied Learning pro-
vides opportunities for students to gain professional practice by com-
bining on-campus classroom study with real-world work experience.

Cooperative Education (Co-op) is an academic program and an inte-
gral part of the curriculum at UCF, available to students on all cam-
puses in all colleges. The mission of the program is: 1) to provide a
means for students to develop academic, professional, and personal
competencies through experiential learning experiences; and 2) to
create meaningful and productive educational partnerships with aca-
demic departments and employers locally, nationally, and internation-
ally.

Co-op students participate for multiple terms in structured, progres-
sively responsible, paid work assignments in industry, directly related
to their major or career goal. They alternate periods of work and
study, either by alternating full-time semesters of work and school, or
working part time while studying full time. Co-op provides a means
for students to test career goals, improve academic performance,
develop discipline-related personal and professional skills, generate
income, and increase prospects for full-time employment upon grad-
uation.

The Center for Cooperative Education and Applied Learning also
supports internships in collaboration with academic departments.
Internships are major-related work experiences that provide similar
benefits to co-op opportunities, but generally are one term in length
and occur toward the end of a student’s academic program.

To allow for multiple semester participation, students should apply as
early as possible in their program of study. For both co-op and
internship assignments, students may apply at any time during the
year, but should make an effort to apply one semester before they
want to participate to allow time to obtain an appropriate learning
opportunity.

Division of Continuing Education
Assistant Vice President/Director: J. Patrick Wagner; Bldg #81,
P.O. Box 160950, Orlando, FL 328-26-0950;
407-882-0260; Fax: 407-882-0244

The Division of Continuing Education (DCE) serves as the unit within
Academic Affairs for the centralized administration of continuing edu-
cation at UCF. In partnership with the academic, business, and pro-
fessional communities, DCE will provide local, state, national, and
international clients with high quality, affordable, credit/noncredit edu-
cational programs and services. DCE clients include degree stu-
dents, area professionals, K-12 students, domestic and international
organizations, and local/state/federal government.

Center for Multilingual Multicultural Studies
Director: Myrna Creasman; Bldg #81, P.O. Box 163177, Orlando, FL
32816-3177; 407-823-5518; 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 course work 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

Off-Campus College Credit Programs assists in the administration and coordination of approved partnerships and other specially formatted credit courses and degree programs for the academic colleges. Registration may be conducted on site at the various business, educational, or governmental locations served or via the web for student convenience. Course registration for non-admitted students does not constitute regular admission to the University.

Institutes and Centers for Research

Center for Applied Human Factors in Aviation (CAHFA)

Director and Chief Scientist: Jefferson M. Koonce; 407-823-1011; Fax: 407-823-5862

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 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; BA 325; 407-823-2870

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.

School of Optics/CREOL (Center for Research and Education in Optics and Lasers)

Director: Eric W. Van Stryland; 407-823-6800; E-mail: info@creol.ucf.edu; Web: http://www.creol.ucf.edu

The Center for Research and Education in Optics and Lasers (CREOL), is the State University System of Florida's Center of Excellence 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 is the research arm of the School of Optics. The School offers Masters (MS) and Doctoral (Ph.D.) Degrees in Optics. The School of Optics/CREOL has become an internationally recognized institute with 25 faculty members, 21 Ph.D. level research scientists, and 120 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 School of Optics/CREOL's 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: linear and nonlinear guided-wave optics and devices, 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 $10 million of research grants and contracts from numerous federal and state agencies and industry.

Graduate assistantships, with stipends ranging from $18,000 to $25,000, 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 School of Optics/CREOL 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 School. 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 laser and electro-optic technology.

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 in 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 general public.

Executive Development Center

Director: TBA; 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:
- Conference services
- Customized corporate programs
- Executive MBA Program
- Public enrollment 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; 407-823-3647/48; Fax: 407-823-3649; E-mail: fcil@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 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; 407-823-3647/48; 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 Exemption Program that is available for students from central and eastern 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.

Florida Institute of Government at the University of Central Florida
Director: Marilyn Crotty; 407-317-7745, Fax 407-317-7750.

The Institute of Government is a part of the Florida Institute of Technology and provides training and technical assistance to state and local government entities, 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)
Ken Sheinkopf, 1879 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 energy 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 teachers and 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)
Ron Phillips, FSI, Kennedy Space Center, FL 32899; 321-452-9834; Fax: 321-452-4842; E-mail: fsi@ksc.nasa.gov; Website: fsi.ucf.edu

The Florida Space Institute (FSI) offers a unique approach to space education and research. Recognizing the substantial investment in launch facilities and human resources in Central Florida, the proposal to form a center that would merge industry, education, and research in a real-world environment became a reality. Created by a formal agreement among the following institutional partners: Brevard Community College, Embry-Riddle Aeronautical University, Florida Institute of Technology, NASA-sponsored Florida Space Grant Consortium, Spaceport Florida, and the University of Central Florida, FSI brings a permanent presence to the space center. As the “gateway to the universe” FSI provides space education and research to undergraduate and graduate students at the USAF Cape Canaveral Air Station.

FSI research involves undergraduate and graduate students in real space problems within the existing space industry environment of the space center. This environment permits students and faculty to interact with space center engineers and to use the facilities of the space center. FSI research projects are primarily conducted in its facilities at Building AM at Cape Canaveral. Other facilities at KSC are used as needed and which are made available. Research projects conducted by the FSI university/college partners on their respective campuses are considered “normal” proprietary projects of that particular university/college even though the project may be space related.

Institute for Simulation and Training (IST)
Director: Randall Shumaker; 3282 Progress Drive, Orlando, FL 32862-0544; 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 and work space, and administrative offices occupy nearly 38,000 square feet of floor space in IST’s headquarters building. Another 26,000 square feet of office and laboratory space in the Central Florida Technology Development Center is shared with the US Army. Simulation-based emergency management training is conducted at the institute’s training building near Orange and Seminole counties’ 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, mathematicians, 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 springboard 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:** I. Ahmad; 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 into 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/consulting/institute.htm](http://www.cas.ucf.edu/statistics/consulting/institute.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. Professor Ibrahim A. Ahmad (iahmad@mail.ucf.edu), Chairman of the Statistics Department, 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 306H; 407-823-6257.

The Institute for Technical Documentation offers a variety of services for client companies, including developing original technical documentation, translating documentation written in other languages, and providing seminars to assist clients in writing their own documentation. The Institute also provides seminars on writing more effective e-mail, memos, letters, policies and procedures, manuals, and reports. Experienced faculty, established facilities, and strong rapport with local industry enable the Institute to assist in a wide variety of documentation projects and seminars.

**Small Business Development Center (SBDC)**

**Director:** Aloyse T. Polfer; University Tech Center, Suite 300, 12565 Research Parkway; 407-823-5554.

The Small Business Development Center (SBDC) is part of a statewide organization designed to promote economic development by 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, Citrus, 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
- Sources of Financing
- Product Innovation
- Business Plan Development

Additional programs provide assistance to clients in the areas of government contracting, energy conservation, and international trade.

**Small Business Institute**

**Director:** Lloyd W. Fernald; 407-823-5725

Business schools have for some 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.
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:

**College of Arts and Sciences**

Bachelor of Arts (B.A.)

* Majors:
  - Advertising, Anthropology, Art, Digital Media, Economics, English, Film, Foreign Languages Combination, French, History, Humanities, Interpersonal Communication, Journalism, Liberal Arts, Liberal Studies, Music, Music Education, Organizational Communication, Philosophy, Political Science, Psychology, Radio-Television, Sociology, 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.)
### Academic Degrees, Majors and Minors

<table>
<thead>
<tr>
<th>College</th>
<th>Awarding Minor*</th>
<th>Name of Minor</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Business Administration</td>
<td>College of Business Administration</td>
<td>Accounting, Business Administration (for non Business Administration majors), e-Business, Economics (for Business and non-Business majors), Management Information Systems, Marketing (for Business and non-Business majors)</td>
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<tr>
<td>College of Education</td>
<td>College of Education</td>
<td>Coaching, Exceptional Education, and Fitness Training, Vocational Education and Industry Training</td>
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<td>College of Engineering and Computer Science</td>
<td>College of Engineering and Computer Science</td>
<td>Aerospace Studies, Military Science, Space Studies, Technology and Society</td>
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<td>College of Health and Public Affairs</td>
<td>College of Health and Public Affairs</td>
<td>Aging Studies, Addictions, American Humanities, Communicative Disorders, Criminal Justice, Emergency Management, Health Sciences, Health Services Administration, Health Information Management, Legal Studies, Molecular Biology and Microbiology, Public Administration, Urban and Regional Planning</td>
</tr>
<tr>
<td>Rosen School of Hospitality Management</td>
<td>Rosen School of Hospitality Management</td>
<td>Hospitality Management</td>
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</tbody>
</table>

### Bachelor of Science (B.S.)

<table>
<thead>
<tr>
<th>Majors</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bachelor of Science, Biology, Chemistry, Digital Media, Forensic Science, Liberal Studies, Mathematics, Physics, Psychology, Social Sciences (Interdisciplinary), Statistics</td>
</tr>
</tbody>
</table>

### College of Business Administration

<table>
<thead>
<tr>
<th>Bachelor of Science in Business Administration (B.S.B.A.)</th>
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</thead>
<tbody>
<tr>
<td>Majors: Accounting, Economics, Finance, General Business Administration, Management, Management Information Systems, Marketing</td>
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</table>

### College of Education

<table>
<thead>
<tr>
<th>Bachelor of Science (B.S.)</th>
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### College of Engineering and Computer Science

<table>
<thead>
<tr>
<th>Bachelor of Science</th>
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<tbody>
<tr>
<td>Majors: Aerospace Engineering (B.S.A.E.), Civil Engineering (B.S.C.E.), Computer Engineering (B.S.C.E.), Computer Science (B.S.), Electrical Engineering (B.S.E.E.), Electrical Engineering Technology (B.S.E.E.T.), Engineering Technology (B.S.E.T.), Environmental Engineering (B.S.Env.E.), Industrial Engineering (B.S.I.E.), Information Systems Technology (B.S.), Information Technology (B.S.), and Mechanical Engineering (B.S.M.E.)</td>
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### College of Health and Public Affairs

<table>
<thead>
<tr>
<th>Bachelor of Arts (B.A.)</th>
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<tbody>
<tr>
<td>Majors: Communicative Disorders, Criminal Justice, Legal Studies, Public Administration</td>
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</table>

<table>
<thead>
<tr>
<th>Bachelor of Science (B.S.)</th>
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</thead>
<tbody>
<tr>
<td>Majors: Cardiopulmonary Sciences, Communicative Disorders, Criminal Justice, Health Information Management, Health Sciences-Athletic Training, Health Sciences-Generalist Track, Health Services Administration, Legal Studies, Medical Laboratory Sciences, Molecular Biology and Microbiology, Public Administration, Radiologic Sciences</td>
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<table>
<thead>
<tr>
<th>Bachelor of Science in Nursing (B.S.N.)</th>
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<tbody>
<tr>
<td>Major: Nursing</td>
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<table>
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<tr>
<th>Bachelor of Social Work (B.S.W.)</th>
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<tbody>
<tr>
<td>Major: Social Work</td>
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### Rosen School of Hospitality Management

<table>
<thead>
<tr>
<th>Bachelor of Science (B.S.)</th>
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<tbody>
<tr>
<td>Majors: Hospitality Management, Restaurant and Foodservice Management</td>
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</table>

### Academic Minors

#### College Awarding Minor*

<table>
<thead>
<tr>
<th>Name of Minor</th>
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<tbody>
<tr>
<td>African American Studies, American Studies, Digital Media, Judaic Studies, Latin American</td>
</tr>
</tbody>
</table>

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*Contact the college/school/department for the requirements for each 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.
The College of Arts and Sciences, the largest academic unit in the University, includes the following departments: Art; Biology; Chemistry; English; Film; Foreign Languages and Literatures; History; Liberal Studies; Mathematics; Music; Philosophy; Physics; Political Science; Psychology; Sociology and Anthropology; Statistics; and Theatre. The College also includes the Nicholson School of Communication that includes the following divisions: Advertising/Public Relations, Interpersonal/Organizational Communication, Journalism, and Radio/Television.

In keeping with the aims of the University of Central Florida, the College is responsible for all programs in the broad areas of the humanities, arts, natural sciences, and social sciences. The departments collectively offer more than sixty baccalaureate, graduate, and pre-professional 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 Sciences offers a wide selection of courses that are designed to complement the programs of the other colleges of the University. These offerings include most of the courses necessary to satisfy the University's general education requirement.

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, 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. 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:** 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 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 Sciences 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.

**Advisement**

**Office of Academic Support and Information Services (OASIS)**

http://www.cas.ucf.edu/oasis

Interim 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 Sciences. OASIS assists students in the College with degree requirements, policies and procedures. The Office oversees General Education course evaluation and substitutions as well as evaluation and application of TSD credits for Arts and Sciences students. Questions concerning University and College academic policies affecting Arts and Sciences majors should be directed to the OASIS staff in CNH 202 or by calling 407-823-2492. Questions concerning the 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 multi-disciplinary programs that focus on specific regions or cultural groups. UCF has five area studies programs with an international focus: Asian, Judaic, Latin American, Middle Eastern, and Russian Studies. Although the academic home of these programs is the College of Arts and Sciences, 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: Houman Sadri; 407-823-2608
- **Middle Eastern Studies** Contact: Elliot Villez; 407-823-2745
- **Latin American Studies** Contact: Arlen Chase; 407-823-2124
- **Judaic Studies** Contact: Moshe Pelli; 407-823-5039
- **Russian Studies** Contact: TBA; 407-823-2251

**LINC Program**

Program Coordinator: H. Sweet; CAS 191; 407-823-3253; email: linc@ucf.edu

The Learning in Communities program (LINC) at UCF enriches a students’ experience in select General Education Program courses. Paired GEP sections are joined in the LINC program into a single, six credit course which is jointly taught by two faculty. These faculty integrate their courses, thereby reinforcing the material presented in both. Students in the LINC sections form a greater bond, both among themselves and with the teacher. Although treated as a single class during the term, separate academic credit and grades are provided for both participating courses.

**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 407-882-2300.

**Programs, Tracks, and Degrees**

**Title**

- Actuarial Science
- Advertising/Public Relations
- African-American Studies
- American Studies
- Animation
- Anthropology
- Art
- Asian Studies
- Biology
- Biomolecular Sciences
- Chemistry
- Cinema Studies (Film)
- Communication
- Community Arts - PAVE
- Digital Media
- Economics
- English
- English as a Second Language
- Film
- Foreign Language Combination
- Forensic Science
- French
- German
- History
- Humanities
- Interpersonal Communication
- Italian
- Jazz Studies
- Journalism
- Judaic Studies
- Latin-American Area Studies
- Liberal Arts
- Liberal Studies
- Magazine Journalism

**Degree**

- BS
- BA
- Minor
- BFA
- BA, BFA, Minor
- Minor
- BS, MS, Minor
- PhD
- BS, MS, Minor
- BA, Minor
- MA
- Minor
- BA, BS, Certificate, Minor
- Economics
- BA, BA/MAAE
- Accelerated
- BA, MA, Minor
- MA
- BA, BFA
- BA
- BS
- BA, Minor
- Minor
- BA, MA, Accelerated MA, Minor
- BA, Minor
- BA, Minor
- Certificate
- BA, Certificate, Minor
- Minor
- BA
- BA, BS, Accelerated MS
- Minor
Mathematics
Mass Communication
Middle Eastern Studies
Music
Music Education
Music Technology
North American Indian Studies
Organizational Communication
Philosophy
Physics
Political Science
Psychology
Radio-Television
Religious Studies
Russian Area Studies
Social Sciences
Sociology
Spanish
Statistics
Theatre
Translation and Interpretation
Women's Studies

Asian Studies: Program
Acting Director: Hooman Sadir; CNH 415; 407-823-2608
An interdisciplinary minor designed to enhance multicultural education, 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

Biology: Department
http://pegasus.cc.ucf.edu/~biology/
E-mail: biology@ucf.edu
Chair: David Kuhn; BL 210; 407-823-2141
Faculty: Efrhart, Kuhn, Morrison-Sheltr, Noss, Osborne, Parkison, Shetlai, Snelson, Soto, Stout, Sweet, Taylor, Thomas, Vajravelu, Vickers, von Kalm, Walters, Waterman, Weishampel, Whittier, Worthy, Professors Emeritus Ellis and Koenen

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 cooperative Ph.D. in Biomolecular Sciences. The core 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 of 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)
Tracks: Biology Pre-professional (BS)
Minors: Biology

Chemistry: Department
http://www.cas.ucf.edu/chemistry
E-mail: chemistry@ucf.edu
Chair: G. Cunningham; CH 117; 407-823-2246
Faculty: Ballantine (Forensic Science), Belfield, Ciausen, Clusheimer, Fookes (Forensic Science), Geiger, Hampton, Juge, Kujawa (Geology), Madsen, McGee (Forensic Science), Miles, Paradis, Phanstiel, Slaterbeck

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, and a Master of Science in Industrial Chemistry. 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 pharmacology or toxicology. With an appropriate choice of electives it also constitutes excellent preparation for the professional schools of dentistry, medicine, and veterinary medicine.

Degrees: Chemistry (BS, MS), Forensic Science (BS)
Tracks: Chemistry, Forensic Analysis, Forensic Biochemistry
Minors: Chemistry

Communication: Nicholson School
http://www.cas.ucf.edu/communication
E-mail: communication@ucf.edu
Director: TBA; COM 238; 407-823-2681
Faculty: Bagley, Barfield, Blydt, Bridges, Brokaw, J. Butler, Costain, Davis, DeLorme, Fedler, Hall, Hodgson, Katt, F. Johnson, Lawrence, Malala, Maunez-Cuadra, Meeske, Mills, Moroux, O'Hara, Pryor, Rabb, Santana, R. Smith, Stansberry, Tanzi, Taylor, Workman, Wycoff, Young

The Nicholson School of Communication provides students with a balance of practical skills and philosophical aspects of mass and
interpersonal 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 which offer five separate Bachelor of Arts degrees. The degrees are:

1. Advertising/Public Relations. Provides theory and practice in both advertising and public relations.
2. Interpersonal 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.
4. Organizational Communication. Provides knowledge, skills, and theory to understand and predict human communicative behavior in organizational settings.

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 on-line radio station, and laboratories for interactive multimedia. The Journalism Division has computer writing rooms and both a traditional wet photography lab and a digital darkroom. The Advertising/Public Relations Division has a computerized graphics lab and a writing classroom. The Interpersonal/Organizational Communication Division has a presentational 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 Communication (BA), Journalism (BA), Organizational Communication (BA), Radio Television (BA)

Tracks: Broadcast Journalism, Broadcast Production, General Broadcasting

Minors: Interpersonal Communication, Magazine Journalism, Mass Communication, Organizational Communication

Community Arts—PAVE: Program

Director: Madison K. Francis; 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

Chair: TBA; CNH 301; 407-823-2212

Faculty: Angley, Applen, Barnes, Bartkevicius, Bell, Bowdon, Brain, Brodkin, Campbell, Casimir-Paz, Davidson, Dombrowski, Donnelly, Flammia, Fox, Fraida, Gimrod, Hammons, Hemschmeyer, Hepner, Hohenleitner, Hubbard, A. Jones, D. Jones, Kamrath, Kesler, Kitalong, Lamazaeres, Leiby, Lillios, Logan, Mariniara, Mauer, Meehan, Morton, Murphy, Orans, Owens, Pugh, Rodriguez-Milanes, Rushin, Saper, Schell, Schiffhorst, Smith, Sommer, Spraker, Stargaller, Thompson, Trouard, Wallace, Young, Adicks (Professor Emeritus)

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, Ph.D)

Tracks: Literature, Creative Writing, Technical Writing

Minors: Creative Writing, Literature, Linguistics, Technical Writing and Editing, Writing

School of Film and Digital Media

Digital Media: Program

http://www.creat.cas.ucf.edu

E-mail: creat@cas.ucf.edu

Director: J. Michael Mosshel; VAB 205; 407-823-6100

The Digital Media program is offered by the Consortium for Research and Education in the Arts and Technology (CREAT) and is housed in the College of Arts and Sciences. Contributing academic units include the Departments of Art, English, Film, Music, Theatre, and the School of Electrical Engineering and Computer Science.

Degrees: Digital Media (BA, BS)

Tracks: Graphic Design, Computer Animation, Computing for Media, Digital Media, Digital Music, Internet and Interactive Systems

Minors: Minor, Certificate

Film: Program

http://www.film.ucf.edu

E-mail: film@ucf.edu

Chair: Sterling Van Wagenen; COM 121; 407-823-3456

Faculty: Blum, Gerstein, Harpole, Harris, Ingle, M. Johnson, B. Jones, Stapleton, Wirth, 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 January 15. 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 (BA)

Tracks: Film, Cinema Studies, BFA Track

Minors: Film-Cinema Studies

Foreign Languages and Literatures: Department

http://pegasus.cs.ucf.edu/~folang

E-mail: foreignlanguages@ucf.edu

Chair: C. Stebbins; CNH 523; 407-823-2472


Language studies in the College of Arts and Sciences provide instruction in Arabic, Chinese, French, German, Italian, Japanese, Latin, Portuguese, Russian, and Spanish, with majors in French, Spanish, and a combination of 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 enrolled in the 1000-level language sequence are required to utilize the Foreign Language Media Center for at least one hour per week. 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 Sciences, and by the Department of Foreign Languages and Literatures.

Degrees: French (BA, MA), Spanish (BA, MA), Foreign Language Combination (BA), ESOL (MA)

Tracks: None

Minors: French, German, Italian, Spanish
Forensic Science: Program
http://www.cas.ucf.edu/chemistry/forensic.html
E-mail: chemistry@ucf.edu
Director: W. W. McGee; CH 221; 407-823-2788
Faculty: Ballantyne, Fookes, McGee

Forensic Science is the profession serving the scientific needs of the justice system. The program at UCF has been designed to provide the student with an educational background in criminalistics. The principal job of the forensic scientist is to examine physical evidence gathered at the scene of a suspect criminal action. The criminalist may work on physical evidence such as blood, hairs, fibers, or pharmaceutical and clandestine drug preparations. Upon completion of a thorough laboratory examination of the evidence, the forensic scientist presents his/her findings in court. The goal of the Forensic Science program is to prepare the student for this demanding profession. Within the Forensic Science program, the student may choose one of two programs of study. The two areas of emphasis are the Analysis Track and the Biochemistry Track.

Degrees: Forensic Science (BS)
Tracks: Forensic Analysis, Forensic Biochemistry
Minors: none

History: Department
http://pegasus.cc.ucf.edu/~history
E-mail: history@ucf.edu
Chair: Edmund Karkazis; CNH 544; 407-823-2224
Faculty: C. Adams, S. Adams, Alvarez, Beiler, Downing, Evans, Fernandez, Friend, Gordon, Greenhaw, Kallina, Leckie, Pauley, Perry, Stockdale, Walker, Zhang

Students who are interested in becoming a lawyer should seriously consider a 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, Canadian and Commonwealth Studies, Latin-American and Iberian Area Studies, and Russian Area Studies.

Degrees: History (BA, MA, Accelerated MA)
Tracks: None
Minors: History

Judaic Studies: Program
http://www.cas.ucf.edu/judaic_studies
E-mail: judaicst@ucf.edu
Program Director: Professor Moshe Pelli; CNH 201, 407-823-5039 or 823-5129

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

Latin American Area Studies: Program
http://www.cas.ucf.edu/liberal_studies
E-mail: achase@mail.ucf.edu
Director: Arlen Chase; PH 403M; 407-823-2124

The Latin American Area Studies Minor is an interdisciplinary academic program whose objective is to provide students with an understanding of Latin American cultural, social, intellectual and political-economic dynamics. The minor provides students with a background that can be applied to careers in teaching, government, business, non-profit organizations, as well as international, inter-American Affairs.

Degrees: None
Tracks: None
Minors: Latin American and Iberian Area Studies

Liberal Studies: Program
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Program Contact: The Liberal Studies Advising Team
Academic Advisors: Karen Cox, Katrin DeWindt, Lee Logan, Linda Skrotsky; CNH 20, Judy Monroe (MNH 321) 407 823-0144.

The Liberal Studies Program offers students the opportunity to pursue interdisciplinary studies through individually planned programs of study that include sixteen different areas plus minor degree programs. The degree includes six different tracks: Liberal Studies, Computer Information Technology, Environmental Studies, Photography and Women's Studies.

Degrees: Liberal Studies (BA, BS, MA, MS)
Tracks: Photography (A.S. to B.S.)
Minors: American Studies, Environmental Studies, Social Sciences Interdisciplinary

Mathematics: Department
http://math.ucf.edu
E-mail: math@mail.ucf.edu
Chair: Zuhair Nashed; MAP 209; 407-823-0445
Faculty: Andrews, Anthony, Armstrong, Brigham, Cannon, Caron, Choudhury, Clarke, Danielyan, Dunlop-Pyle, Dutton, Griffiths, Han, Heinzer, Higgins, Hilton, Hoffman, Jones, Kassab, Katsevich, Langfield, Li, Martin, Mikusinski, Mohapatra, Pensky, Phillips, Pyle, Rautenstrauch, Ren, Richardson, Rodriguez, Rollins, Salzmann, Schober, Shivamoggi, Taylor, Tovbis, Vajravelu, 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 specialty 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
The Department of Physics offers a Bachelor of Science degree with options in performance, composition, and piano pedagogy; 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, University Vocal Society, Gospel Choir, MIDI User Group, Student Chapters of MENC and ACDA, and Student Advisory Council.

Degrees: Music (BA), Music Education (BME), Music Performance (BM)
Tracks: Music Performance, Composition
Minors: Music

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 Environmental Studies. 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)
Tracks: Regular and Honors
Minors: Philosophy, Humanities, Religious Studies

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 that value critical thinking, problem-solving, and research skills.

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 and Lasers, Computational Physics, Astronomy
Minors: Astronomy, Physics

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.

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.
- Canadian and Commonwealth Studies: Contact M. Elliot Vittes.
- Environmental Studies: Contact Dwight Kiel.
- Latin American and Iberian Studies: Contact Waltraud Q. Morales or Bruce Wilson.
- Russian Area Studies: Contact Houman A. Sadri.
- Space Studies: Contact Roger Handberg
- Women's Studies: Contact Terri S. Fine or Joyce Lilie.

Degrees: Political Science (BA, MA), Economics (BA)
Tracks: American Politics, International Relations, Comparative Politics, Prewal
Minors: Political Science, Political Science/Prewal

The Department of Psychology reflects the scientific nature of the field and has two primary missions. The first is to provide students with a rigorous preparation for graduate training in psychology and related fields. The second mission is to provide all students with skills they will need to apply the basic concepts and methods of psychology in their work, their communities, and their lives. The Department of Psychology grants both BA and BS degrees. While either the BA or BS degree provides excellent preparation for graduate programs, students desiring a strong background in statistics and science should consider the BS option.

Psychology is one of the empirical sciences in the College of Arts and Sciences. The Undergraduate Program in the Department of Psychology reflects the scientific nature of the field and has two primary missions. The first is to provide students with a rigorous preparation for graduate training in psychology and related fields. The second mission is to provide all students with skills they will need to apply the basic concepts and methods of psychology in their work, their communities, and their lives. The Department of Psychology grants both BA and BS degrees. While either the BA or BS degree provides excellent preparation for graduate programs, students desiring a strong background in statistics and science should consider the BS option. The BS option has more science and research-related requirements as well as additional courses in psychology research and statistical methods.

Degrees: Psychology (BA, BS, MA, MS, PhD)
Tracks: None
Minors: Psychology
Russian Area Studies: Program
Contact: R. Crepeau; 407-823-2224
Four UCF departments, Foreign Languages, History, Political Science, and Philosophy, have pooled their resources to offer a minor to students interested in a basic and well-rounded background in Russian Area Studies. The philosophy of the program is to offer students a multidisciplinary approach to the subject, so as to allow them to grasp the subject in its complexity and to understand linguistic, cultural, historical, political, and socio-economic interrelationships.

Degrees: None
Tracks: None
Minors: Russian Area Studies

Social Sciences: Program
Contact Program: Liberal Studies Advising Team; CNH 201; 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

Sociology and Anthropology: Department
http://www.cas.ucf.edu/soc_anthro/firstpage.html
E-mail: anthropology@ucf.edu, sociology@ucf.edu
Chair: J. Corzine; PH 403B; 407-823-2227
Associate Chair: D. Gay
The Department of Sociology and Anthropology offers a Bachelor of Arts in Sociology and in Anthropology. Students should consult with their departmental advisor early in their academic careers to select an area of specialization within the Department or if they plan to pursue graduate work.

Degrees: Anthropology (BA), Sociology (BA, MA)
Tracks: Domestic Violence (MA)
Minors: Anthropology, Anthropology in Multicultural Studies, Sociology

Statistics: Department
http://www.cas.ucf.edu/statistics
E-mail: statistics@ucf.edu
Chair: I. Ahmad; CCII 212; 407-823-2289
Faculty: Cutchins, Gad, Guo, Hoffman, Jamshidian, Johnson, Nickerson, Pensky, Ren, Richardson, J. Schott, S. Schott, Su, Suchora, M. Wang, You, Zhang
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. (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)
Minors: Statistics

Theatre: Department
http://pegasus.cc.ucf.edu/~theatre
E-mail: theatre@ucf.edu
Chair: TBA; UTC 111; 407-823-2861.
Faculty: Bell, Boyd, Brotherton, Brown, Chicurel, Harmon, Harris, Hart, Huaxiang, Ingram, Lartonoix, Listengarten, Major, McDonald, Niess, Owens, Ruscella, Rusnock, Seay, Shafer, Siegfried, Smith (Professor Emeritus), Vernon
The Department of Theatre seeks to develop theatre artists of the highest quality by providing a select number of undergraduate students with the training, education, and experiences necessary for the successful pursuit of professional careers in theatre arts. In support of this mission and the liberal arts goals of the College of Arts and Sciences, the department seeks to provide its students with the knowledge and skills necessary to live full, rewarding and productive lives. Offering both the Bachelor of Arts and the Bachelor of Fine Arts degrees, the Department of Theatre undertakes to develop and graduate theatre artists who are sensitive, aware, and total 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 thus providing them with a unique and invaluable introduction to the real world of professional theatre. 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)
Tracks: Performance, Design/Tech, Stage Management, Musical Theatre
Minors: Theatre

Women’s Studies: Program
http://www.cas.ucf.edu/womensstudies
E-mail: womenst@ucf.edu
Director: L. M. Logan; CNH 201H; 407-823-6502
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
The Burnett Honors College (TBHC) at UCF is designed to provide a challenging and exciting educational experience to academically talented students who have demonstrated ability and desire to achieve scholarly excellence. It is committed to diversity in both the composition of its student body and the programs that it supports.

TBHC combines the atmosphere of a small college with the intellectual stimulation of a large research university. Honors students receive an education that prepares them to enter the best graduate and professional schools as well as distinguished careers in business and public service.

Honors classes are small, and course work crosses traditional disciplinary boundaries to encourage critical thinking. Beyond the classroom, special guest lecturers and presentations, field trips, and university-related service activities expand the horizons of Honors students.

Students in TBHC are actively involved in social activities and course programming. Honors students have access to the Honors Reading Room and computer lab, and to Honors housing on a space-available basis. They also have priority registration privileges.

Students may pursue Honors through two distinct programs, University Honors and Honors in the Major.

University Honors

Admission to University Honors is granted by TBHC to qualified incoming freshmen by invitation. 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 and to follow the procedures necessary to enter the program. Prospective Honors students and their parents are encouraged to visit with Honors staff if they have questions.

Students must maintain a minimum 3.2 UCF GPA and a minimum 3.0 GPA in Honors courses in order 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 course work in Honors sections of the General Education Program; 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 who receive six or more hours of upper-division credit for the following programs: 1) University Study Abroad Program; 2) The Washington Center; and 3) Undergraduate Research Experience, may receive credit for completion of one upper-division Honors Seminar.

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 completed “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

<table>
<thead>
<tr>
<th>GEP</th>
<th>Symposium</th>
<th>Upper-division Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 hours</td>
<td>1 hour</td>
<td>See requirements by College</td>
</tr>
</tbody>
</table>

1 When a student has an exceptionally high number of dual enrollment, Advanced Placement, CLEP, or other work that is credited toward GEP required hours, she or he should consult an Honors advisor about fulfilling Honors GEP requirements.

2 Honors Symposium is a one-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 See requirements by College
Consult an Honors advisor to find out when these courses are being offered.

University Honors Upper-Division Program Requirements:

1. Complete one Honors Interdisciplinary Seminar (3 hours)
2. Complete two Honors Business Common Body of Knowledge courses (6 hours). Currently, the following sections of Common Body courses are offered in Honors:
   - BUL 3130H Honors Legal and Ethical Environment of Business (3 hours)
   - GEB 4361H Honors Business in the International Environment (3 hours)
   - MAR 3023H Honors Marketing (3 hours)
   - FIN 3403H Honors Business Finance (3 hours)
   - ISM 3011H Honors Management Information Systems (3 hours)
   - MAN 3025H Honors Management of Organizations (3 hours)

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 hours)
2. Complete two Honors upper-division Computer Science courses (6 hours). Currently, the following sections of Computer Science courses are offered in Honors:
   - STA 3032H Probability and Statistics for Engineers (3 hours)
   - EGN 3310H Engineering Analysis—Statics (3 hours)
   - EGN 3321H Engineering Analysis—Dynamics (3 hours)
   - EGN 4931H Honors Seminar—Research (3 hours)

Consult an Honors advisor to find out when these courses are being offered.

Upper Division Course Work (For Computer Science majors)

Computer Science majors may fulfill University Honors requirements by taking nine credit hours of Honors course work through a combination of computer science courses and at least one Honors Interdisciplinary Seminar:

1. Complete one Honors Interdisciplinary Seminar (3 hours)
2. Complete two Honors upper-division Computer Science courses (TBA)

University Honors Upper-Division Program Requirements: College of Health and Public Affairs (COHPA) Excluding Molecular Biology and Microbiology majors

1. Complete one Honors Interdisciplinary Seminar (3 hours)
2. Complete one Honors Interdisciplinary Seminar (3 hours) offered by COHPA (within or outside the major) or one COHPA Honors Interdisciplinary Course (EX: Public Affairs Research Methods; Healthcare Ethics).
3. Complete three credit hours of Independent Study or one Honors Interdisciplinary Seminar (3 hours).

University Honors Upper-Division Program Requirements for Molecular Biology and Microbiology majors

1. Complete one Honors Interdisciplinary Seminar (3 hours) outside the major.
2. Complete with a grade of "B" or better BSC 3404H Honors Quantitative Biological Methods (4 hours).
3. Complete with a grade of "B" or better PCB 4524H Honors Molecular Biology II (3 hours).

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 instructors 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. Other approved upper-division Honors courses may be substituted for the Seminar requirement.

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 Honors Office. An Honors in the Major Handbook outlining the procedures for completing this program is available in TBHC 102.

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 Associate Dean 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 in the Major 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 4931H in lieu of Directed Readings. 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 or BSC 3404H (for Molecular & Microbiology students only). 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 all 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 Associate Dean of TBHC. The Thesis-Committee Chair and at least two committee members must all 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 Associate Dean of TBHC.

By the end of the term in which a student plans to graduate with Honors in the Major, the student must file an "Intent to Graduate with Honors in the Major" form with the TBHC Office. 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 him@mail.ucf.edu.
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 American Assembly of 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.
- Common Program Prerequisites.

Students who otherwise meet the University admission requirements, such as entering freshmen and transfer students, will be placed in a Business Administration 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 2010 (BE2010) curriculum focuses on four competencies that are integrated throughout all coursework: Teamwork, Communication, Creativity, and Adapting to Change. Faculty, 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
- GEB 3356 Introduction to International 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, except in Accounting, Finance, Marketing, Management, and Management Information Systems where an additional requirement of “C” (2.0) or better in each course and a UCF minimum 2.0 is required.
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 must obtain permission from the College.

Community/Junior College Transfers 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 CSS 2100. 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
Office of Student Support
Director: Helen Y. Hill; BA 240; 407-823-2184
The Office of Student Support (OSS) is the primary office for undergraduate and graduate academic 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 Student Support staff in BA 240 or by calling 407-823-2184. Visit OSS’s home page at: http://www.bus.ucf.edu/oss/

Programs and Degrees

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<td>BSBA, MAAE</td>
</tr>
<tr>
<td>Finance</td>
<td>BSBA</td>
</tr>
<tr>
<td>General Business</td>
<td>BSBA, MBA</td>
</tr>
</tbody>
</table>

International Business Tracks:
- Economic Track
- Finance Track
- General Business Track
- Marketing Track
- Management Track
- Management Information Systems
- Management
- Marketing

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International Business Tracks:
- Economic Track
- Finance Track
- General Business Track
- Marketing Track
- Management Track
- Management Information Systems
- Management
- Marketing

Degrees: Accounting (BSBA, MSA, MST)
Minors: Accounting

Departments and Programs
School of Accounting
Director: A. Judd; BA 437; 407-823-2871
Assistant to Director: S. Smith; BA 436; 407-823-5678
Faculty: Bailey, Bandy, Bobek, Dillard, Dwyer, Evans, Goldwater, Johnson, Judd, Kellihier, Klintworth, Mahoney, Potts, Roberts, Roush, J. Salter, M. Salter, Savage, Smith, Vaughen, Veit, J. Welch,

Mission Statement
The mission of the 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 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 solving, information analysis and computer applications.

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: D. Hosni; BA 325; 407-823-3266, economics@bus.ucf.edu
Faculty: Anton, Braun, Dickie, Elston, Euzent, Finnoff, Gerking, Gibbs, Hamilton, Hoffer, Hosni, Im, Lee, Martin, McHone, Mikhail, Milton, Moore, Pennington, Rungeling, Serogin, Soskin, White, Xander
Faculty Advisor: B. Sen; BA 318; 407-823-2232

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 in the College of Business Administration and a BA degree in the College of Arts and Sciences. The purpose of the College of Business Administration economics major is to provide students with a professional business background
that prepares them for careers in private business and government. The purpose of the economics major in the College of Arts and Sciences 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 policy, teaching, research, social service, and other areas. The goal of both programs is to enable students to better understand the economic and non-economic issues that are confronted in their jobs and their private lives and to provide the analytical skills that will allow them to resolve these issues. Students interested in a BA in Economics should refer to the Economics Major in the College of Arts and Sciences.

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.

Student Organizations: The Economics Club is an active student organization linking students to Alumni.

Degrees:
- Economics (BSBA, MAAE)

Tracks:
- International Business

Minors:
- Economics

Department of Finance
Interim Chair: A. Byrd; BA 420; 407-823-3575

Faculty: Ajayi, Atkinson, Baker, Block, Borde, Byrd, Cheney, Choi, Dalkiran, Dalrymple, Frye, Gilkeson, Greene, McGuillen, Michelson, Millican, Modani, Park, Ramanlal, Scott, Schnitzlein, Singer, S. Smith, Taft, Weaver, Whyte, Winters

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. Students that major in finance are sought by both financial and non-financial firms.

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)

Tracks:
- International Business

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 advice 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)

Tracks:
- International Business

Minors:
- For non-Business majors

Department of Management
Interim Chair: F. Jones; BA 335; 407-823-2679

Faculty: Ambrose, Arnaud, Barringer, Becker, Bogumil, Butcher, Callahad, Callarman, Connell, DeGeorge, Fernald, C. Ford, R. Ford, Gowan, Holland, Houseman, F. Jones, Keen, D. Neubaum, Putchinski, Quinn, Rockmore, 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 their course work in Human Resource Management, a specialized area of study, 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 a specific 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.

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.
- Internships that provide real-world experience and enhanced job opportunities.
- A "hands-on," applied focus in our courses.

Degrees:
- Management (BSBA), Human Resources (MS)

Tracks:
- International Business, General Management, Entrepreneurship

Department of Management Information Systems
Chair: P. Cheney; BA 308; 407-823-3106, Fax 407-823-2389

Faculty: Courtney, Goodman, Haynes, Hightower, Hornik, Jiang, Johnson, Leigh, McNamara, Odisho, Sanders, Szymanski, Thielen, Van Slyke, West

Information systems form both the backbone and nervous system of virtually every business organization today. With the increasingly important role that information systems play in modern business organizations, the timing could not be better to enter this discipline. The objective of the Management Information Systems (MIS) program is to prepare students for exciting and challenging careers in the information systems arena.

MIS involves the study of how organizations use information and information technology to overcome problems or create opportunities. The MIS major prepares students to become problem solvers in a time when information is advertised as the fourth factor of production, and in an era when government agencies report that one of ten information technology positions is unfilled.

The MIS major prepares students for such entry-level positions as systems analysts, programmer-analysts, and database analysts by providing them with a thorough grounding in the principles of information system design and construction. The MIS curriculum includes coverage of computer programming, database design and implementation, networks and data communications, systems analysis, systems implementation, managerial decision making, and managerial aspects of organizational information systems. The strength of the major is its combination of technology skills with a thorough grounding in the principles of all the functional areas of business.

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 high 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 in Management, Management Information Systems Track (MSM/MIS)

**Minors:**
- Management Information Systems

**Department of Marketing**

*Chair: R. Michaels; BA 310; 407-823-2108; http://www.bus.ucf.edu/marketing/index.htm*

*Faculty: Allen, Arnold, Borrieci, Crowson, Das, Davis, Desiraju, Echambadi, Elliott, Fuller, Ganesh, Garcia, Gundy, Gupta, Harris, Howatt, Jordan, Michaels, Quaintance, Rubin, Sarkar, Sooder, Yoon, Whang*

The Marketing major at UCF is called **Impact Marketing 2010**, or simply **IM2010**. It provides a superior education in the basics of marketing such as research, customer behavior, professional selling, management, and strategy. Moreover, 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, 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, driving change, and e-business.

A new benefit for Marketing majors is the opportunity to earn a certificate in any of six areas of career interest: selling and sales management, retailing management, e-marketing, sports marketing management, healthcare 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 a 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. Taking a minor in Marketing can add significant value and career flexibility for any student. Another new offering is a Marketing track within the International Business program. If you want a strong International Business education with the career flexibility offered by a degree in marketing, then you should look into this option.

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. The tracks are designed to meet the growing worldwide demand for graduates with greater managerial and technical capabilities in transnational business operations. Each track requires 27 credit hours beyond the CBA Common Body of Knowledge (CBK). The 27 credit hours are made up of a combination of required courses in the functional areas, required international courses, and restrictive electives. The required international courses are drawn from a group of six courses that constitute the core of international business.

Students in the various tracks are required to take at least three of the six courses and in some cases students may elect to take up to all six courses. This ensures that graduates of the program are adequately equipped to supply the International Business expertise needs of our clientele.

**Distinctive Benefits**
- Holistic, presenting an overall global perspective of the business operation as a system.
- Multidisciplinary, combining expertise from various business and non-business areas.
- Environmental driven, responsive to the changing demands of economic, financial, political, socio-cultural, legal, and technological forces.
- Experiential, providing opportunities for practical experiences on foreign market penetration strategies, evaluation of investments abroad, international negotiations, and international market research.

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**International Business Tracks**

The continuing growth of multinational corporations, international trade and finance, and international strategic alliances underscores the need for skilled managers equipped to handle the complexities of a global economic environment. Compared to a purely domestic operation, international business presents unique opportunities and challenges that require drastically different responses. The international business tracks are designed to provide skilled managers who are equipped to analyze the complexities of operations of businesses in multinational environments.

The increasingly global nature of business has made it a standard practice for firms to require that candidates for top management positions have prior training or experience in international operations. In addition, large financial services organizations and insurance companies, governments, and transnational organizations also have a growing need for managers who understand international business. The tracks are designed to meet the growing worldwide demand for graduates with greater managerial and technical capabilities in transnational business operations. Each track requires 27 credit hours beyond the CBA Common Body of Knowledge (CBK). The 27 credit hours are made up of a combination of required courses in the functional areas, required international courses, and restrictive electives. The required international courses are drawn from a group of six courses that constitute the core of international business.

Students in the various tracks are required to take at least three of the six courses and in some cases students may elect to take up to all six courses. This ensures that graduates of the program are adequately equipped to supply the International Business expertise needs of our clientele.
The role of the College of Education at the undergraduate level is to prepare students for careers as early childhood, elementary, secondary, exceptional, physical, vocational education teachers, and sports and fitness professionals. The College of Education offers Bachelor of Science degrees with the following majors:

- 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
- Vocational Education and Industry Training

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 CLAST examination (no alternatives are accepted)
- Complete common program prerequisite courses

Office of Student Services

Director: Tina M. Smilie; ED building, first floor; 407-823-3723

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. 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.

Office of Clinical Experiences

Director: Donna Walker-Knight; ED building, first floor; 407-823-2436

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.

Admission to Internship I

Admission to Internship I will be granted when students who have been admitted to the College of Education meet the following additional requirements:

- Have on file in the University admissions office passing scores on all 4 parts of the College Level Academic Skills Test (CLAST)
- Possess minimum overall GPA of 2.5
- Achieve a “C” (2.0) or better in all prerequisite methods/specialization courses
- Complete a formal application for Internship I by deadline
- Be recommended by the faculty of the department of the student’s major
- Meet any special departmental requirements
- Possess minimum specialization GPA of 2.5
- Possess minimum professional preparation GPA of 2.5

Internship I is a three semester hour experience. Students are assigned to work with certified supervising teachers under the direction of a College faculty 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 department chair.

Students must be aware: if they have been arrested for certain crimes, they may not be able to be hired as a teacher. Application for Internship I is made through the Office of Clinical Experiences.
Admission to Internship II

Internship II is a 12 semester hour experience normally completed during the student’s last semester. The clinical experience is considered a full-time experience, and students are permitted to enroll in other classes only with the consent of their department chair. Admission to Internship II will be granted when students have met the following requirements:

- Successfully complete Internship I
- Have on file in the University admissions office passing scores on all four parts of CLAST
- Possess a minimum overall GPA of 2.5
- Possess minimum professional preparation GPA of 2.5
- Possess minimum specialization GPA of 2.5
- A minimum grade of C (2.0) is required in EDG 4323; however, a minimum GPA of 2.5 is required in the professional preparation area
- 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. Guest internships will not be permitted. Students must be aware: if they have been arrested for certain crimes, they may not be able to be hired as a teacher. Several school districts require finger-printing prior to Internship II. Application for Internship II is made through the Office of Clinical Experiences.

Application deadlines are as follows:
- February 15 for Fall semester
- September 15 for Spring semester

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 preparation 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.

Department of Educational Studies

Chair: Karen L. Biraimah; ED building, 2nd floor; 407-823-2426
Assistant to the Chair: Tace Crouse; ED building, 2nd floor; 407-823-6579

Faculty: Ackley, Allen, Bailey, Becker, Boote, Condly, Deets, Gregory, Hewitt, Hlett, Holt, Hutchinson, Johnson, Kaplan, Koger, Loudermill, Luckett, Lue, Miller, Short, Sluti, Wood

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, Middle Level Education, and Multicultural and Global Education. Educational Studies graduate courses provide opportunities for students to advance their knowledge and application 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: Wilfred D. Wienke; ED building, second floor; 407-823-2598
Faculty: Albers, Angelopoulos, Balado, Blanes, Boulot, Casado, Cross, Daire, Englehart, Ezell, Hartle, Hayes, Hines, Hughes, K.D. Jones, L. Jones, Klein, Little, Manning, Martin, Miller, Mumford, Olson, Pankaskie, Platt, Robinson, Spina, Taub, 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). The department includes specialties in: (a) emotionally handicapped; (b) mentally handicapped and (c) specific learning disabilities at the K-12 levels. 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: Varying Exceptionalities is available for teachers already certified in an area of exceptional education, whereas the Master of Arts in Exceptional Student Education: Varying Exceptionalities is designed for non-education majors or previously certified teachers in another field. Each program may lead to teacher certification.

Also available is the Master of Arts in Physical Education with emphasis in Exercise Physiology and Wellness. Certification and Master’s level programs are available in Counselor Education, with emphases on school counseling or mental health counseling. A Specialist Program is available in School Psychology. Several doctoral options are available through the Curriculum and Instruction program.

Department of Teaching and Learning Principles

Interim Chair: Robert Williams; ED building, 2nd floor; 407-823-4836
Assistant to the Chair: Lance Torrei; ED building, 2nd floor; 407-823-0523


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 Vocational Education and Industry Training. The Vocation Education and Industry Training degree also offers a track specifically designed for students seeking state certification in Business Education (6-12).

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 and Spanish), Reading, and Physical Education.

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.
Dean: M.P. Wanieliita; ENG2 202; 407-823-2156
Associate Dean for Research: D.R. Reinhart; ENG2 202; 407-823-2156
Assistant Dean for Academic Affairs: J. F. Nayfeh; ENGR 107; 407-823-2455
Assistant Dean for Graduate Affairs: I. Batarseh; ENGR 107; 407-823-2455
Director, Academic Support Services: Melissa Falls; ENGR 107; 407 823-2455
Director of College Honors Programs: A. J. Gonzalez, ENGR 407; 407-823-5027

Undergraduate Majors and Degrees

Aerospace Engineering BS
Civil Engineering
Civil Engineering - Construction
   Engineering Concentration BSCE
Computer Engineering
Computer Engineering - Software
   Engineering Concentration BSCpE
Computer Science
Electrical Engineering
   Electrical Engineering - Wireless
   Communication Concentration BSEE
Electrical Engineering - Microelectronics Concentration BSEE
Electrical Engineering Technology - Computer Systems Concentration BSEE
Electrical Engineering Technology - Electrical Systems Concentration BSEET
Engineering Technology - Design Concentration BSET
Engineering Technology - Operations Concentration BSET
Engineering Technology - Space Systems Concentration BSET
Environmental Engineering BSEnve
Industrial Engineering BSIE
Information Systems Technology BS
Information Technology
Mechanical Engineering - Energy Systems Concentration BSME
Mechanical Engineering - Mechanical Systems Concentration BSME
Mechanical Engineering - Materials Concentration BSME
Integrated 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 integrated 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 nine hours of intermediate level (5000) graduate courses with a grade of "B" or higher toward fulfillment of both the BS and MS degree requirements. Interested individuals should see the individual 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 Mission Statement

Out primary mission is to further the knowledge and practice of the engineering and computer science professions in Central Florida, the state and the nation by:

- Providing the highest quality and innovative learning/teaching environment in undergraduate and graduate curricula, preparing a diverse student body to be effective, contributing members of a technological society and life-long 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 mankind.
- Extending educational opportunities to technology practitioners locally, nationally and globally to enhance human performance, and economic and technical development.

College Core Values

- Honesty: We tell the truth and are aboveboard and candid.
- Integrity: We foster trust and are consistent, always taking responsibility for our actions.
- Professionalism: We adhere to a professional code of ethics, continuing to learn while striving for excellence.
- Family: We pursue life outside of our professional environment, giving our family a priority.
- Altruism: We work as a team, help each other, and sacrifice for the common good. We understand that our 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 and graduate programs
- A model for university outreach, globalization and partnerships
- An organization committed to obtaining the highest quality standards in all phases of its operations, processes, and management
- A organization successful in obtaining resources to support academic development

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 technologist, 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 must 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 (SEEC), the 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 Electrical Engineering Department, Computer Engineering Department, and Computer Science Department and Information Technology. The Engineering Technology Division is comprised of the Engineering Technology (ENT) Department, and the ROTC Division 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 master’s degrees and the Doctor of Philosophy degree; see the Graduate catalog for further information on these graduate programs. The undergraduate engineering programs in Aerospace Engineering, Civil Engineering, Computer Engineering, Electrical Engineering, Environmental Engineering, Industrial Engineering, and Mechanical Engineering are fully accredited by the Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place #1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700, Fax: (410) 625-2238. ABET is recognized by the U.S. Department of Education as the sole agency responsible for accreditation of educational programs leading to degrees in engineering, engineering technology, and related engineering areas. The Computer Science program is accredited by the Computing Accreditation Commission (CAC) of the Accreditation Board for Engineering and Technology (ABET), 111 Market Place #1050, Baltimore, MD 21202-4012, Telephone: (410) 347-7700, Fax: (410) 625-2238.

The Engineering Technology Division and Department offers baccalaureate concentrations in Design, Operations in Space Sciences, leading to the Bachelor of Science in Engineering Technology (BSET) degree, and concentrations in Electrical Systems and in Computer Systems, both leading to the Bachelor of Science in Electrical Engineering Technology (BSET) degree. Both the BSET and BSEET degrees are accredited by the Technology Accreditation Commission (TAC) of the Accreditation Board for 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 ROTC 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
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 credits 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 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, Avelino Gonzalez, Engineering Building, room 411. For more information about The Burnett Honors College programs, please visit their homepage at http://pegasus.cc.ucf.edu/~honors/.

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 college homepage associated with a particular program, see the listing for that department on the following pages of this catalog.

Department of Civil and Environmental Engineering
Chair: A.E. Radwan; ENG2 211; 407-823-2841; Fax: 407-823-3315
Faculty: Abdel-Aty, Al-Deek, Block, Chopra, Cooper, Dietz, Hagen, Head, Hong, Kuo, Nnadi, Olofu, Onyemelukwe, Randall, Reinhart, Taylor, Wanielista, Wayson, Yeh, Zhao

The Civil and Environmental Engineering Department (CEE) offers baccalaureate degrees in both Civil Engineering (BSC) and Environmental Engineering (BSEnV).

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 (out of six offered), which synthesize various pre-requisite course offerings into a design project. Students in the Civil Engineering with Construction option are required to take two capstone senior 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.

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 engineer-
ing 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.

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 waste-water treatment, and water resources.
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 Dual BS Degrees in Civil and Environmental Engineering
The faculty of the Civil and Environmental Engineering Department believe that a dual degree 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 his or her Bachelor’s degree in both disciplines shall meet the following requirements:

- the student shall meet all individual requirements for each degree
- the student shall take 24 hours of approved courses beyond the requirements for a single degree
- the coursework must include a minimum of four different capstone design courses, two from each program
- the student shall notify the Chair of his or her intention to pursue a dual degree at least two full semesters prior to the expected graduation date, and shall have a “program of study” prepared and approved by the Chair

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 24 hours represent two additional semesters of full time enrollment, and represents the minimum requirements for a second degree.
- The 24 hours of courses beyond a single degree means that, currently, 152 hours of approved coursework would be required for the dual 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 dual degree 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 to review the technical elective, and the specific design courses being taken by each student.

School of Electrical Engineering and Computer Science

Director: TBA; CSB 260; 407-823-0345
Faculty: Allen, Bassiouni, Batarseh, Bauer, Boloni, Brigham, Chatterjee, DeMara, Deo, Dutton, Ejnioui, Favorov, Foroosh, Frederick, Gelenbe, Georgiopoulos, Gerber, Gomez, A. Gonzalez, F. Gonzalez, Guha, Haralambous, Heinrich, Hua, Hughes, Jones, Kasparis, Klee, Kocak, Lang, Lee, Leeson, Liou, Lisetti, Llewellyn, Lobo, Malocha, Marin, Mannescu, Mikhail, R. Miller, Moshell, Mukherjee, Ooroji, Parsons, Pattanaik, Petrasko, R. Phillips, Qu, Reinhard, Richie, Rogers, Rolland, Schiavone, Shah, Sundaram, Turgut, Vemulapati, Wahid, Wei, Workman, A. Wu, T. Wu, Yuan

Electrical and Computer Engineering Programs
The Electrical and Computer Education programs offer baccalaureate degrees in both Electrical Engineering (BSEE) and Computer Engineering (BScpE). Graduate 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, EGN 3373, 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 4767C and EEL 4768C), Engineering Applications of Computer Methods (EEL 4832), 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) Electrical Networks (EEL 3122C) 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 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 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 of many 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 grants matching and startup funds from SEECS. 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 five upper division courses in an area outside information technology will prepare these students to deal with the subject areas and communicate in the parlance of the industries in which they choose to work. Basically, students will have an interdisciplinary core in which the principles and practices of the three disciplines of the School are presented in a cohesive, connected manner. They will then create their own multidisciplinary component by taking upper division courses that are typically outside the College of Engineering and Computer Science.

Mission

The mission of the Bachelor of Science in Information Technology Degree Program is to educate students in the science and practices of information technology, preparing them for a lifetime of learning 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 receive an education that enables them to design, implement, and administer complex distributed information systems, including the archival databases and the communication infrastructures associated with such systems.
4. Graduates have the opportunity to obtain a strong background in at least one discipline, outside information technology, in which information technology plays a critical role.
5. 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.

School of Electrical Engineering and Computer Science

Policies and Procedures

The School’s web site (http://www.seeecs.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 with faculty (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.

Minors: Applied Computer Science, Computer Information Technology, and Computer Science

Certificates: Applied Computer Science and Computer Information Technology
Department of Industrial Engineering and Management Systems

Chair: Lesia Crompton-Young; ENG2 312; 407-823-2204, Fax 407-823-3413
Faculty: Armacost, Chandra, Crompton-Young, Elshennawy, Hoecker, Hosni, Kotnour, Kulonda, Lee, Malone, McCauley-Bell, Mollaghasemi, Mullens, Pet-Armacost, Proctor, Rabelo, Ragusa, Reilly, Schrader, Sepulveda, Stanney, Thompson, Whitehouse, Williams

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 and with highest possible quality. 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 systems 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 actively ensuring 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 3314, 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 system design in the two-semester capstone design sequence, EIN 4116 and EIN 4991.

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 into 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
Faculty: An, Bandary, Bishop, R. Chen, Q. Chen, Chew, Chow, Coffey, Conway, Desai, Dhere, Durrance, Giannuzzi, Hagedoorn, Ilgbusi, R. Johnson, Kapat, Kassab, Klemeny, K. Lin, Minardi, Mosley, Nayefeh, Nicholson, Peterson, Seai, Sohn, Suryanarayana, Vaidyanathan, Ventre, Xu

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 aerodynamics, propulsion, aerospace structures and materials, flight dynamics, and control and performance.

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 structure 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 engineering courses 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 lifelong 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: To prepare 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 expertise 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, professional and leaders. Through cooperative efforts with regional industry, our graduates will be well prepared for their roles 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.

Mechanical Engineering Program Educational Outcomes and Objectives

Career Preparation: To prepare 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

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)
Coordinator: Aireza Rahrooh

This program in electrical engineering technology, leading to the BSET degree, provides a structured curriculum with instruction in fundamental 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 two 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/electronice 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.

Bachelor of Science in Engineering Technology (BSET)
Coordinator: Lucy Morse

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. A new program in Space Science Technology was added to the BSET program in 2003. This program 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, both 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)
Coordinator: Bahman Motlagh

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:* Lt Col Wieck; Trailer 501, Room 103; 407-823-1247,
Fax 407-823-2265, DSN 960-8647

*Faculty/Staff:* Major Nowotny, Major Turner, Captain Crawl, TSgt Fields, SSgt Crawford, and Mrs. Fioramanti, 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 programs allow 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 AFROTC home page at [http://airforce.ucf.edu](http://airforce.ucf.edu).

**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 based on their academic classification.

**Air Force ROTC Scholarship Program**

Scholarships are phased at four, three, two, and one-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. A POC Incentive scholarship is available to students enrolled in the last two years of our program regardless of academic major as long as they graduate prior to becoming 31 years old and have a minimum term GPA of 2.50 or greater. The POC incentive scholarship pays up to $3000 per academic year toward tuition and fees and $450 per academic year 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 Lackland Air Force Base in San Antonio, TX, Tyndall Air Force Base in Panama, or Elsworth 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 Commissions
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 with a reserve commission, 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 John J. Ruzich; Trailer 501, Room 110
Faculty/Staff: MAJ Christensen, MAJ Sanderson, CPT Huggins, CPT Neslon, CPT Plumtree, MSG Helms, SFC Gibb, SSG Barajas, SSG Blount, SGT Rodriguez, Ms. Martin, Office Manager; 407-823-2430, Fax 407-823-5324

The University of Central Florida, in cooperation with the US Army, provides an opportunity to earn a commission as a Second Lieutenant and compete for an active duty assignment or to accept a guaranteed Army Reserve or National Guard position. The program offers both a four-year and two-year option for students working on their Associate of Arts, Baccalaureate or Graduate degrees. The two-year option allows students with at least two academic years remaining in either undergraduate or graduate studies to meet all requirements for commissioning. Students may be eligible for the Army’s Simultaneous Membership Program (SMP) which combines Reserve Forces Duty with Army ROTC officer training courses on campus. Students earn about $7500.00 in their last two years. Note: The Army retains sole discretion - in accordance with public law and military regulation - regarding whether or not any applicant is qualified for pre-commissioning education through Army ROTC. More information on the AROTC program can be found on the AROTC Department home page: http://army.ucf.edu

Curriculum
The Military Science on-campus curriculum is divided into two phases: Basic Military Science Course and Advanced Military Science Course.

1. Basic Military Science
A. The Basic Military Science courses, open to both men and women, are designed for four-year participants and are normally offered during the freshman and sophomore years. These courses address military organizations, equipment, weapons, map reading, land navigation, management skills, grade structure, communications and leadership. There are non-contractual obligations or commitments for students in the Basic course phase. The Basic Course phase offers students the opportunity to see what Army ROTC is all about (MSL 1101, 1102, 2201, 2202). Students will also participate in a Field Training Exercise (FTX). These courses fulfill pre-requirement requirements for entering the Advanced Military Science phase.
B. Requirements for admission to the Basic Course:
- Enrollment in a Baccalaureate or Master’s degree program
- Full-time student status

2. Advanced Military Science
A. The Advanced Military Science courses, open to both men and women, are taken during the junior and senior years. These courses specialize in small unit tactics, how to prepare and conduct military training, military justice system, 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 the school year. Each student is required to take courses that meet the Army’s Professional Military Education Requirements. Students must meet pre-requirement requirements and must obtain permission from the department chair prior to participating in the Advanced program. They must also successfully complete a 32-day Advanced Leadership Camp at Fort Lewis, WA, normally between their junior and senior years.

B. Requisites for Admission to the Advanced Course:
- Successful completion of Basic Course, Basic Camp (LTC), JROTC, prior military service or permission of the Department Chair
- Must be at least 17 years of age at the time of entry, but not more than 30 years of age at the time of commissioning (30-year age regulation may be waived for veterans up to age 34)
- Successful completion of an Army physical examination
- Agreement to complete the Advanced Course requirements and serve on either Active, Reserve, or National Guard duty as a commissioned officer
- Full-time undergraduate student status (minimum of 12 hours); full-time graduate student status (minimum six hours)
- US Citizen
- A minimum cumulative GPA of 2.0 is required to contract non-scholarship cadets, and a minimum cumulative GPA of 2.5 is required for scholarship consideration.

3. Monetary Allowance
All contracted and scholarship students enrolled in the Advanced Military Science Course receive a tax-free monetary allowance of $350.00 or $400.00 per month during the school year.

4. Scholarships
Four, three and two-year scholarships are available for all students who qualify. These scholarships provide full tuition, books and fees for Fall and Spring semesters. In addition, all contracted scholarship students also receive the $250.00, $350.00 or $400.00 monetary allowance per month during the school year. Contact the Enrollment Officer for additional information at 407-823-5383.

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) 295-6469. 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. National Advanced Leadership Camp (NALC)
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 NALC after their junior year and receive approximately $800 pay.
Dean: Belinda R. McCarthy; HPA I 365; 407-823-0171  
Associate Dean: Joyce Dorner; HPA I 365; 407-823-0171  
Executive Interim Associate Dean, Graduate Studies: Robert Gennaro; HPA 365; 407-823-0171  
Assistant Dean, Undergraduate Studies: Pamela Kirby; HPA I 365; 407-823-0171  
Assistant Dean, Student Affairs: Melvin Rogers; HPA I 365; 407-823-0171; http://www.cohpa.ucf.edu

The College of Health and Public Affairs houses seven departments and schools: the School of Nursing, the School of Social Work, and the departments of Communicative Disorders, Criminal Justice and Legal Studies, Health Professions, Molecular Biology and Microbiology, and Public Administration.  

The College fosters excellence in undergraduate and graduate education, research and community services in health and public affairs, social and justice services, and basic and applied life sciences.

General Requirements for the Bachelors 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, Medical Laboratory 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 grade point averages may be obtained from the desired School, Program or Department.  

The following Departments and Programs do not have restrictions on admissions: Communicative Disorders, Criminal Justice/Legal Studies, Molecular Biology/Microbiology, Public Administration, Health Science Generalist, and Health Services Administration.

Academic Advisement
Office of Student Support
Director: Judith A. Sindlinger; HPA2 115; 407-823-0010; E-mail: hpainfo@pegasus.cc.ucf.edu

The College of Health and Public Affairs Office of Student Support assists 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. Pre-health Professions Advisement for students interested in pursuing professional degrees is handled in the Pre-Health Professions Advisement Office located in HPA I 124, 407-823-2670.

Programs and Degrees
Major Degree
Cardiopulmonary Sciences BS  
Communicative Disorders BA, BS, MA  
Criminal Justice BA, BS, MS  
Health Information Management BS  
Health Sciences-Athletic Training BS  
Health Sciences - Generalist BS  
Health Services Administration BS, MS  
Legal Studies BA, BS  
Medical Laboratory Sciences BS  
Molecular Biology and Microbiology BS, MS  
Nursing BSN, MSN
Certificates
Minors
Tracks
Degrees

The discipline of communication sciences and disorders involves the prevention, evaluation, management, and study of human communication and its disorders. The undergraduate program in the Department of Communicative Disorders is pre-professional in nature and reflects the scientific foundations of the discipline. The three primary goals of the undergraduate program are to provide students with the necessary preparation 1) to pursue graduate study in speech-language pathology, audiology, or related fields such as special education, social work, and health services administration; 2) to seek careers in health and human services; and 3) to obtain licensure and employment as a speech-language pathology or audiology assistant.

The graduate program prepares speech-language pathologists for work with children and adults experiencing a variety of communication disorders in schools, hospitals, rehabilitation centers, community speech, language, and hearing centers, and physician’s offices. The graduate program has been accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association since 1986. Students should plan their major or minor in consultation with a departmental advisor to meet their individual interests and career objectives.

In addition to course work in communicative disorders, the Department offers a four-course sequence in American Sign Language open to the entire university community: SPA 4612, SPA 4613, SPA 4614, and SPA 4615.

Degrees: Communicative Disorders (BA, BS, MA)
Tracks: None
Certificates: American Sign Language

Department of Criminal Justice and Legal Studies

Chair: B.J. McCarthy; HPA 311; 407-823-2603


The Department of Criminal Justice and Legal Studies includes two undergraduate degree programs: Legal Studies and Criminal Justice.

Criminal Justice Program

Criminal Justice is a problem based field of study which focuses on the nature of crime and crime control agencies in a democratic society. The curriculum reflects the dynamic nature of the field and prepares students for challenging careers in public service.

Legal Studies Program

The Legal Studies Program provides students with a broad understanding of basic principles of law and the role and function of the legal system. The legal studies program, in addition to preparing students for law-related careers, provides a foundation for law school or other graduate education. All of the full time Legal Studies faculty are attorneys who are graduates of ABA approved law schools and are available for law school advising. The Department also supports Phi Alpha Delta, the professional law school fraternity. Satisfactory completion of program requirements leads to the degree of Bachelor of Arts or Bachelor of Science with a major in Legal Studies.

Degrees: Criminal Justice (BA, BS, MS), Legal Studies (BA, BS)
Tracks: None
Minors: Criminal Justice, Legal Studies

College of Health and Public Affairs

Department of Health Professions

Acting Chair: Diane M. Jacobs; HPA 210; 407-823-2359

Faculty: Acierno, Bertetta, Cassidy, Douglass, Edwards, Falen, Fottler, Gosnell, Hamby, Harp, Holder, Hudson, Liberman, Ludy, Lytle, Meli, Mendenhall, Oetjen, Parry, Rotarius, Trujillo, Unruh, Welker, Worrell

The Department of Health Professions offers baccalaureate programs which prepare students for professions in the fields of Cardiopulmonary Sciences (Respiratory Care), Health Information Management, Athletic Training, Health Services Administration, and Radiologic Sciences. The Department also offers a generalist degree for the undecided pre-professional major and for graduates of diploma programs seeking a baccalaureate degree for professional advancement.

The mission of the Department is to provide quality undergraduate and graduate academic, administrative, and clinical instruction with an accent on educating future leaders of the health care system. The Department seeks first 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 admission and the Athletic Training program requires a minimum overall and GPA of 3.0. 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.

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.

Program in Cardiopulmonary Sciences

Director: L.T. Worrell; HPA 210; 407-823-2214

The major in Cardiopulmonary Sciences (which includes the Respiratory Care Program) leads to the Bachelor of Science Degree. In the professional curriculum, students study advanced courses in respiratory therapy, pharmacology, life support systems, disease assessment, clinical practice, diagnostics, and patient management. 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. This is a limited access program and requires a separate application to the program by February 1 of the year in which admission is sought.

Degrees: Cardiopulmonary Sciences (BS)
Tracks: None
Minors: None

Program in Health Information Management

Director: Tom Falen; HPA 2 210; 407-823-2369

Health Information Managers are professional members of the modern health care team responsible for: 1) the acquisition and supervision of the complete medical record on each patient, 2) the design and 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 of Allied Health
Education Programs (CAAHEP) in collaboration with the Council on
Accreditation of the American Health Information Management
Association. This is a limited access program and requires a sepa-
rate 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

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**Program in Health Sciences-Athletic Training**

**Director:** D. Cassidy; HPA2 124; 407-823-3463

The Program in athletic training at the University of Central Florida is
a track in the Department of Health Professions in the College of
Health and Public Affairs. 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 course-
work will emphasize skills and competencies necessary for success-
fual clinical practice in a variety of settings in which athletic trainers
are presently employed. A significant and important aspect of the
education program will be clinical experiences that will occur in
a variety of settings under the direction of an approved clinical instruc-
tor and certified athletic trainer. These local affiliation sites include
high schools, colleges, universities, sports medicine clinics, and pro-
fessional athletic organizations. The unique aspect of the athletic
training curriculum is that upon successful completion of the course
of study, it will provide the graduate with a bachelor of science
degree in Health Sciences and the eligibility to take the National
Athletic Trainer’s Association Board of Certification (NATABOC)
Exam. By successfully passing the exam, the student will be recog-
nized as a certified athletic trainer (A.T.C.). The Athletic Training pro-
gram is accredited by the Joint Review Committee on Education
Programs in Athletic Training (JRC-AT) in conjunction with the
Commission on Accreditation of Allied Health Education Programs
(CAAHEP).

This is a competitive program that requires a separate application to
process following acceptance into the University. Consent from the
program director is required.

**Degrees:** Health Sciences (BS)

**Tracks:** Athletic Training

**Minors:** None

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**Program in Health Sciences-Generalist Track**

**Director:** T. Falen; HPA2 210; 407-823-2369

This Program offers a baccalaureate degree in Health Sciences
(Generalist Track). The BSHS Program provides an opportunity for
credentialled health care professionals to expand the scope of their
education through the completion of courses both within and outside
of their discipline. The Program also enables students, without a
health background who are considering a health services career, to
complete courses in several disciplines in order to make informed
career decisions. BSHS students are exposed to courses from the
Athletic Training, Health Information Management, and Health
Services Administration Programs.

**Degrees:** Health Sciences (BS)

**Tracks:** Generalist

**Minors:** Health Sciences

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**Program in Health Services Administration**

**Director:** T. Falen; HPA2 124; 407-823-2369

The Program 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. 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 pro-
gram 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

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**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 students the oppor-
tunity to specialize in Radiography. Radiographers are integral mem-
ers of the health care team dedicated to providing high quality
patient care. Graduates are prepared to function as clinically compe-
tent Radiographers and, with experience, advance to leadership
positions in their profession.

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 exami-
nations/procedures which may include conventional radiography, flu-
oroscopy, 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 modalities, administration, education, and quality manage-
ment.

The Radiologic Sciences Program is accredited by the Joint Review
Committee on Education in Radiologic Technology (JRCERT).
Graduates are eligible to apply for admission to the Radiography cer-
tification exam administered by the American Registry of Radiologic
Technologists (ARRT).

The program works in conjunction with Arnold Palmer Hospital,
Central Florida Regional Hospital, Drew Medical, Health Central,
HealthSouth Diagnostic Center, Jewett Orthopedic Clinic, Orlando
Regional Medical Center, Orlando Regional Lucerne Hospital,
Premier Advanced Imaging, Regional MRI, South Lake Hospital,
South Seminole Community Hospital and Winter Park Memorial Hospital.
This is a limited access program and requires a separate
application to the program by March 1st of the year in which admis-
sion is sought.

**Degrees:** Radiologic Sciences (BS)

**Tracks:** None

**Minors:** None

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**Department of Molecular Biology and Microbiology**

Chair: Pappachan E. Kolattukudy; HPA 2 325; 407-823-1206

**Faculty:** Blaney, Chai, D. Chakrabarti, R. Chakrbarti, Charba, DanieII,
Fernandez-Valle, Gennaro, Hitchcock, Jacobs, Khaled, Logiudice,
Naser, Rzigalinski, Sweeney, Tatulian, White, Zervos

The Department of Molecular Biology and Microbiology offers curric-
ular programs leading to a minor, a Bachelor of Science degree, and
a Master of Science degree, each in Molecular Biology and
Microbiology. The department also offers a Bachelor of Science
degree in Medical Laboratory Sciences. The Molecular Biology and
Microbiology program offers courses that fulfill admission require-
ments for all the four-year health professions (medical, dental, etc.)
and graduate programs in molecular biology and microbiology. 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 grounding in the physical, computational, and life sci-
ences, 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 stu-
dent to enhance his/her academic preparation in areas of morpho-
logical, clinical, analytical or investigative applications. Students are
also encouraged to gain research experience and exposure to spe-
cialized 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 high quality
preparation for industry, graduate education, and for the four-year
health professions (chiropractic, medical, dental, optometric, podia-
try, pharmacy, and veterinary medicine).
Program in Medical Laboratory Sciences

Director: D. Hitchcock; HPA2 335; 407-823-5932

Medical technologists are involved in medical diagnosis, treatment, surveillance, management, research, and education. They use highly sophisticated equipment such as electronic cell counters, automated analyzers, computers, and microscopes in 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 understanding, skills, and ability essential to assume leadership roles in management and education; to develop a high level of proficiency in the clinical laboratory; and to develop an awareness for continuing education needed for professional growth.

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) 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

School of Nursing

Interim Director: Mary Lou Sole; HPA 220; 407-823-2744

Faculty: Brown, Browne-Krimsley, Bushy, Byers, Connell, Covelli, Dennis, Dorner, Dow, Gichia, Henning, Holcomb, Kiehl, Kijek, Lafferty, Leli, Mayer, Pellecchio, Peterson, Rash, Ruland, Saenz, Sandor, F. Smith, L. Smith, Lynn Smith, Sole, Wink

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.

Students with a prior baccalaureate or higher degree from a regionally accredited college or university are eligible for the Accelerated Second Degree Bachelor of Science in Nursing option.

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 specifics of the RN-BSN program. Courses are offered in Orlando, Cocoa, Daytona Beach, Leesburg and Ocala campuses. The RN-BSN course work 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, and Nursing Leadership and Management. Minimum hours for the degree are 43-49 hours of graduate work depending on the major. Either a thesis or Research Scholarly Project is required. Student must be a licensed Registered Nurse in Florida. All programs are limited access and require a separate application to the School of Nursing.

Degrees: Nursing (BSN) (MSN)
Tracks: RN to BSN, Generic BSN, Accelerated BSN degree, RN to MSN, MSN
Minors: None

Department of Public Administration

Chair: Montgomery Van War; HPA2 238; 407-823-2604
Faculty: Berman, Colby, Feldeinh, Junie, Korosec, Lawther, Liou, Rogers, Wang

The Public Administration course of study is designed to provide students with a broad understanding of the roles and functions of administrative agencies in the American system of government as well as prepare them for professional careers in public service at the federal, state, regional, or local level. Satisfactory completion of program requirements leads to the degree of Bachelor of Arts or Bachelor of Science with a major in Public Administration. The baccalaureate program in Public Administration is offered on the Orlando and branch campuses.

Degrees: Public Administration (BA, BS, MPA)
Tracks: None
Minors: Public Administration, Urban and Regional Planning
Certificates: Non-Profit Management
Graduate Certificates: Public Administration, Non-Profit Management

School of Social Work

Director: Paul Maiden; HPA 204; 407-823-2114
Undergraduate Program Coordinator: Robin Kohn
Faculty: Abel, Davis, Dziegielewski, Gray, Green, Jacinto, Kirven, Kohn, Leon, Maiden, Massey, Sauer, Turnage, VanHook

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 the 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 program valuable. The Certificate in Children’s Services prepares social work students to respond to the special needs of children and families. The course work includes SOW 3342, Practice II; SOW 4654, Children’s Services; SOW 5655, Child Abuse: Treatment and Prevention; and SOW 4510, Field Education (in a child welfare agency). This certificate is of special interest to students planning to work the field of child welfare or related areas. The Addictions Certificate prepares students to work in the field of adult and adolescent substance abuse. The course work includes SOW 3352, Practice II; SOW 4341 Micro-Level Roles Interventions; SOW 4706 Interventions with Substance Abuse and either SOW 4705 Prevention Treatment of Adolescent Substance or CCJ 4651 Drugs and Crime.

If currently majoring in an area of certificate coursework, the student should work with their department to coordinate field work. For social work majors, the School of Social Work will plan field work to complete this program.

Degrees: Social Work (BSW, MSW)
Tracks: None
Minors: Aging Studies, American Humanities
Certificates: Addictions, Aging Studies, Children’s Services
The hospitality industry currently 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 School 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, or conventions and destination services management, the Orlando and Central Florida area offers extraordinary opportunities. It is the destination for over 42 million tourists each year, has over 400 hotels with 112,000 rooms, 4,000 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 School 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 School 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.

The Center for Multi-Unit Restaurant Management and the Darden Eminent Scholar Chair in Restaurant Management provides 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 School of Hospitality Management.

**Distinctive Benefits**
- 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.
- American Resort Development Association (ARDA) Professorship of Vacation Ownership.
- Central Florida Hotel and Lodging Association (CFHLA) Professorship of Convention and Conference Management.

**Degrees:** Hospitality Management (BS)  
Restaurant and Foodservice Management (BS)

**Minor:** Hospitality Management
<table>
<thead>
<tr>
<th>Accounting</th>
<th>English - Technical Writing</th>
</tr>
</thead>
<tbody>
<tr>
<td>Actuarial Science</td>
<td>English Language Arts Education</td>
</tr>
<tr>
<td>Advertising/Public Relations</td>
<td>Environmental Engineering</td>
</tr>
<tr>
<td>Aerospace Engineering</td>
<td>Exceptional Student Education</td>
</tr>
<tr>
<td>Anthropology</td>
<td>Film - B.F.A. Track</td>
</tr>
<tr>
<td>Art</td>
<td>Film - Cinema Studies Track</td>
</tr>
<tr>
<td>Art - Animation Track</td>
<td>Film - World Cinemas Track</td>
</tr>
<tr>
<td>Art - History Track</td>
<td>Finance</td>
</tr>
<tr>
<td>Art - Studio Track</td>
<td>Foreign Language Combination</td>
</tr>
<tr>
<td>Art Education</td>
<td>Foreign Language Education - French</td>
</tr>
<tr>
<td>Biology</td>
<td>Foreign Language Education - Spanish</td>
</tr>
<tr>
<td>Biology - Preprofessional Concentration</td>
<td>Forensic Science - Analysis Track</td>
</tr>
<tr>
<td>Cardiopulmonary Sciences</td>
<td>Forensic Science - Biochemistry Track</td>
</tr>
<tr>
<td>Chemistry</td>
<td>French</td>
</tr>
<tr>
<td>Civil Engineering</td>
<td>General Business</td>
</tr>
<tr>
<td>Civil Engineering - Construction Engineering Concentration</td>
<td>General Business - A.S. to B.S. Track</td>
</tr>
<tr>
<td>Communicative Disorders</td>
<td>Health Information Management</td>
</tr>
<tr>
<td>Computer Engineering</td>
<td>Health Sciences - Athletic Training Track</td>
</tr>
<tr>
<td>Computer Engineering - Software Engineering Concentration</td>
<td>Health Sciences - Generalist Track</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Health Services Administration</td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>History</td>
</tr>
<tr>
<td>Digital Media</td>
<td>History - Accelerated Undergraduate-Graduate Program</td>
</tr>
<tr>
<td>Early Childhood Education</td>
<td>Hospitality Management</td>
</tr>
<tr>
<td>Economics (B.A. &amp; B.S.B.A.)</td>
<td>Hospitality Management A.S. to B.S. Track</td>
</tr>
<tr>
<td>Economics - Accelerated Undergraduate-Graduate Program</td>
<td>Humanities</td>
</tr>
<tr>
<td>Electrical Engineering</td>
<td>Humanities - Religious Studies Track</td>
</tr>
<tr>
<td>Electrical Engineering - Microelectronics Concentration</td>
<td>Industrial Engineering</td>
</tr>
<tr>
<td>Electrical Engineering - Wireless Communication Concentration</td>
<td>Informational Systems Technology - A.S. to B.S. Track</td>
</tr>
<tr>
<td>Electrical Engineering Technology - Computer Systems Concentration</td>
<td>Information Systems Technology</td>
</tr>
<tr>
<td>Electrical Engineering Technology - Electrical Systems Concentration</td>
<td>Information Technology</td>
</tr>
<tr>
<td>Electrical Engineering - A.S. to B.S.E.E.T. Track</td>
<td>Interpersonal Communication</td>
</tr>
<tr>
<td>Elementary Education</td>
<td>Journalism</td>
</tr>
<tr>
<td>Engineering Technology - Design Concentration</td>
<td>Legal Studies</td>
</tr>
<tr>
<td>Engineering Technology - Operations Concentration</td>
<td>Liberal Studies</td>
</tr>
<tr>
<td>Engineering Technology - Space Concentration</td>
<td>Liberal Studies - Computer Information Technology Track</td>
</tr>
<tr>
<td>English - Creative Writing</td>
<td>Liberal Studies - Environmental Studies Track</td>
</tr>
<tr>
<td>English - Literature</td>
<td>Liberal Studies - Liberal Arts Track</td>
</tr>
<tr>
<td>Marketing</td>
<td>Liberal Studies - Women's Studies Track</td>
</tr>
<tr>
<td>Mathematics - Applied Track</td>
<td>Liberal Studies - Accelerated Undergraduate-Graduate Program</td>
</tr>
<tr>
<td>Mathematics - Computational Track</td>
<td>Management Information Systems</td>
</tr>
<tr>
<td>Mathematics - Engineering/Physics Track</td>
<td>Music</td>
</tr>
<tr>
<td>Mathematics - Pure Track</td>
<td>Music Education</td>
</tr>
<tr>
<td>Mathematics Education</td>
<td>Mechanical Engineering</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>Medical Laboratory Sciences</td>
</tr>
<tr>
<td>Mechanical Engineering</td>
<td>Molecular Biology and Microbiology</td>
</tr>
<tr>
<td>Medical Laboratory Sciences</td>
<td>Music Education</td>
</tr>
<tr>
<td>Medical Laboratory Sciences</td>
<td>Music Performance</td>
</tr>
<tr>
<td>Music</td>
<td>Nursing</td>
</tr>
<tr>
<td>Music Education</td>
<td>Nursing - R.N. to B.S.N. Track</td>
</tr>
<tr>
<td>Music Performance</td>
<td>Nursing - R.N. to M.S.N. Track</td>
</tr>
<tr>
<td>Nursing</td>
<td>Nursing Accelerated Second Degree B.S.N. Option</td>
</tr>
<tr>
<td>Nursing</td>
<td>Organizational Communication</td>
</tr>
<tr>
<td>Nursing</td>
<td>Philosophy</td>
</tr>
<tr>
<td>Nursing</td>
<td>Photography A.S. to B.S. Track</td>
</tr>
<tr>
<td>Nursing</td>
<td>Physical Education</td>
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<td>Physics</td>
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<tr>
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<td>Political Science</td>
</tr>
<tr>
<td>Nursing</td>
<td>Political Science - International Studies Track</td>
</tr>
<tr>
<td>Nursing</td>
<td>Political Science - Prelaw Track</td>
</tr>
<tr>
<td>Nursing</td>
<td>Psychology (B.A. &amp; B.S.)</td>
</tr>
<tr>
<td>Nursing</td>
<td>Public Administration</td>
</tr>
<tr>
<td>Nursing</td>
<td>Radio - Television</td>
</tr>
<tr>
<td>Nursing</td>
<td>Radiologic Sciences</td>
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<tr>
<td>Nursing</td>
<td>Radiologic Sciences - A.S. to B.S. Track</td>
</tr>
<tr>
<td>Nursing</td>
<td>Restaurant and Food Service Management</td>
</tr>
<tr>
<td>Nursing</td>
<td>Science Education - Biology</td>
</tr>
<tr>
<td>Nursing</td>
<td>Science Education - Chemistry</td>
</tr>
<tr>
<td>Nursing</td>
<td>Science Education - Physics</td>
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<td>Social Sciences</td>
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<td>Social Science Education</td>
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<td>Nursing</td>
<td>Social Work</td>
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<td>Sociology</td>
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<tr>
<td>Nursing</td>
<td>Spanish</td>
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<tr>
<td>Nursing</td>
<td>Sports and Fitness - A.S. to B.S. Track</td>
</tr>
<tr>
<td>Nursing</td>
<td>Statistics</td>
</tr>
<tr>
<td>Nursing</td>
<td>Theatre (B.A. &amp; B.F.A.)</td>
</tr>
<tr>
<td>Nursing</td>
<td>Theatre - Musical Theatre Track</td>
</tr>
<tr>
<td>Nursing</td>
<td>Vocational Education and Industry Training</td>
</tr>
</tbody>
</table>
## UCF Degree Programs

### ACCOUNTING (B.S.B.A.)

**College of Business Administration, BA 240, 407-823-2184**

[http://www.bus.ucf.edu](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

<table>
<thead>
<tr>
<th>1. UCF General Education Program (min 36 hrs)</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td></td>
</tr>
<tr>
<td>Select MAC 1105 College Algebra</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select CGS 2100C Computer Fund. for Bus</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
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<tr>
<td>Select ECO 2013 Macroeconomics</td>
<td>3 hrs</td>
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<tr>
<td>or ECO 2023 Microeconomics</td>
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<tr>
<td>Select one: PSY 2012, SYG 2000, ANT 2000</td>
<td>3 hrs</td>
</tr>
<tr>
<td>E. Science Foundation</td>
<td>6 hrs</td>
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</tbody>
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<thead>
<tr>
<th>2. Common Program Prerequisites</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Must be completed with a “C” (2.0) or better</td>
<td></td>
</tr>
<tr>
<td>ACG 2021 Principles of Financial Accounting</td>
<td></td>
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<tr>
<td>ACG 2071 Principles of Managerial Accounting</td>
<td></td>
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<tr>
<td>ECO 2013 Macroeconomics</td>
<td></td>
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<tr>
<td>ECO 2023 Microeconomics</td>
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<tr>
<td>ECO 3401 Quantitative Business Tools I</td>
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</tr>
<tr>
<td>CGS 2100C Computer Fundamentals for Business</td>
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<tr>
<td>* At UCF, students who have completed MAC 2233 and STA 2203 will be waived from ECO 3401. Students who have not completed both classes with a “C” (2.0) or better must take ECO 3401.</td>
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<tr>
<th>3. Common Body of Knowledge (30 hrs)</th>
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<tbody>
<tr>
<td>First Semester in the College of Business Administration:</td>
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</tr>
<tr>
<td>GEB 3021 Commenstone</td>
<td>6 hrs</td>
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<tr>
<td>GEB 3356 Intro to International Business</td>
<td>3 hrs</td>
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<tr>
<td>First or subsequent semesters depending on major:</td>
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<tr>
<td>ECO 3411 Quantitative Business Tools II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FIN 3403 Business Finance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAN 3052 Management of Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ISM 3011 Essentials of Management/Information Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAR 3023 Marketing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>BUL 3130 Legal and Ethical Environment of Business</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Last Semester:</td>
<td></td>
</tr>
<tr>
<td>MAN 4720 Strategic Management</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### 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 Financial Accounting and Principles of Managerial Accounting are included under this rule.
- Students are allowed a maximum of three course repetitions during their program of study leading to the bachelors degree, including repetitions of courses from which they have withdrawn. This requirement applies to upper division accounting, tax, and business law courses only.
- 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

### 5. Foundation (Required) (12 hrs)

- ACG 3131 Financial Accounting Concepts and Analysis | 3 hrs |
- ACG 4401 Accounting Information Systems | 3 hrs |
- ACG 3361 Intermediate Managerial Accounting | 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 3141 Intermediate Financial Accounting | 3 hrs |
    - ACG 3561 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 3005 MIS Techniques | 3 hrs |
  - **D. Governmental and Not-For-Profit Accounting**
    - 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 | 3 hrs |
      - ACG 3561 Accounting and Auditing in the Public Sector | 3 hrs |
    - Select one auditing course:
      - ACG 4651 Auditing | 3 hrs |
      - ACG 4671 Internal Auditing | 3 hrs |
    - Select one additional accounting course from the Restricted Electives listed below |
    - Restricted Electives listed below |

### Note: Course substitutions in any area require approval by the Director, School of Accounting. A grade of “B” or better in pre-requisite course required to take graduate level courses.

### 7. Restricted Electives (3 hrs)

Students may choose among the following accounting and accounting-related business courses:

- ACG 3131 Financial Accounting Concepts and Analysis | 3 hrs |
- ACG 3561 Intermediate Managerial Accounting | 3 hrs |
- ACG 3141 Intermediate Financial Accounting | 3 hrs |
- ACG 3561 Accounting and Auditing in the Public Sector | 3 hrs |
- ACG 4401 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 4XXX** 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 |
- ACG 5525 Advanced Financial Accounting | 3 hrs |
- BUL 5332 Advanced Business Law Topics | 3 hrs |
- FIN 3414 Intermediate Corporate Finance | 3 hrs |
- FIN 4453 Financial Models | 3 hrs |
- ISM 3005 MIS Techniques | 3 hrs |
- ISM 4212 Database Management Systems | 3 hrs |
- TAX 5015 Advanced Taxation Topics | 3 hrs |

(HPA 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 least a 3.5 GPA within the major; and at least a 3.2 cumulative GPA including all upper-division courses regardless of institution.
Admission: Application for admission to the Honors in the Major program must be approved by both the Honors in the Major Coordinator for the School of Accounting and Associate Dean of the Honors College plus the payment of $25.00 one-time membership dues.

Requirements: Students accepted into the Honors in the Major Program must complete either:

- ACG 4903 Directed Readings in Accounting or 3 hrs
- ACG 4904 Honors Seminar in Accounting 3 hrs
- ACG 4970 Honors Thesis in Accounting 3 hrs

* With approval of the School of Accounting Honors in the Major Coordinator, the Directed Readings or Honors Seminar course will satisfy one of the Area Specialization course requirements toward satisfaction of the course requirements for the Accounting Major.

FOUR YEAR PLAN OF STUDY - ACCOUNTING

Freshman

Fall 15 hrs | Spring 15 hrs
---|---
ENC 1101* | ENC 1105* 3
Cult-Hist I* | Cult-Hist II* 3
MAC 1105* | Art/Music/Lit 3
Psy/Soc/Art | CSS 2100C* 3
Science | Science 3

Must complete 9 hours in a Summer term

Sophomore

Fall 15 hrs | Spring 15 hrs
---|---
ECO 2023* | ECO 2031* 3
ACG 2021* | ACG 2071* 3
SPC 1600 | POS 2041 3
**Elective | **Elective 3
***Elective | ***Elective 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

Fall 15 hrs | Spring 15 hrs
---|---
GEB 3031 | ECO 3411 3
**BUL 3130 | GEB 3356 3
**ISM 3011 | MAN 3025 3
**ACG 3130 | **ACG 4401 3
**SC 3361 | **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

Fall 15 hrs | Spring 15 hrs
---|---
**TAX 4001 | MAN 4720 3
ACG Specialization | **ACG Specialization 3
FIN 3403 | **Elective 3
**ACG Specialization | **Program Elective 3
MAR 3023 | **Elective 3

**General electives as required to reach 120 semester hours to include at least 60 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 60 hours outside Business Administration.

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 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 law.

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 (MSA) 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, Macroeconomics, Micro-economics, 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
ACTUARIAL SCIENCE (B.S.)
College of Arts and Sciences
Department of Statistics, CC II 212, 407-823-5562
http://www.cas.ucf.edu/statistics
E-mail: statistics@mail.ucf.edu
L. Guo, 407-823-5532

Admission Requirements
Students must apply for admission to the Actuarial Science major 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.
- All statistics courses except STA 2023, 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.
- All 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 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 (39 hrs)
   A. Communication Foundations
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
   Select one course from among the following: (9 hrs)
   STA 4504, STA 4187, STA 4188
   Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department.

2. Common Program Prerequisites (14 hrs)
   COP 3502C*: Computer Science I
   ECO 1023: Microeconomics
   MAC 2311: Calculus I
   Select one from among the following: (4 hrs)
   STA 2023 Statistical Methods I
   MAC 2311 Calculus I
   Select one from among the following: (4 hrs)
   STA 2023 Statistical Methods I
   MAC 2311 Calculus I
   MMA 3103 Calculus III
   *See Transfer Notes for possible substitutes.

3. Core requirements (47 hrs)
   ACG 2021: Principles of Financial Accounting
   STA 2023: Statistical Methods I
   STA 4321: Statistical Theory I
   STA 4322: Statistical Theory II
   STA 4641: Risk Theory and Decision
   STA 4183: Theory of Interest
   STA 4130: Life Contingencies I
   STA 4121: Life Contingencies II
   CTE 4500: Numerical Calculus
   ENC 3241: Writing for Technical Professionals
   BSC 2010C: General Biology
   BSC 2010C: Computer Science I
   Select one course from the following: (4 hrs)
   MAS 3105: Linear Algebra
   MAS 3106: Linear Algebra
   *See Transfer Notes for possible substitutes.

4. Restricted Upper Division Electives (15 hrs)
   - Select from upper division or graduate statistics, actuarial science, or mathematics courses.
   - Nine of the hours must be 4000 level or above.
   - Selected courses in business may be used but must first be approved by the Statistics Department.
   - MAC 2233, 2253, 2254; all MAE courses; and MHF 4404 may not be used.

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 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: 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.
- However, COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken.
- BSC 2010C*: any laboratory BSC, CHM, or PHY course.
- However this is a prerequisite for BSC 211C and will need to be taken.

ADVERTISING/PUBLIC RELATIONS (B.A.)
College of Arts and Sciences
Nicholson School of Communication, COM 250
407-823-2829
http://www.cas.ucf.edu/communication
E-mail: ad-pr@ucf.edu
Bob Davis
Limited Access program.

Admission Requirements
- Students should apply to become Advertising/Public Relations majors only after completing all requirements for admission.
### Degree Requirements

**A. Communication Foundations**
- Select ENC 1101 & 1102 Composition  
  6 hrs
- Select SPC 1600 Fund Oral Communication  
  3 hrs

**B. Cultural and Historical Foundations**
- 9 hrs

**C. Mathematical Foundations**
- 6 hrs
- Select MGF 1106 Finite Math (may substitute a higher level math)  
  3 hrs
- Select CGS 1060C Intro to Computer Sci or  
  3 hrs
- STA 2014C Principles of Statistics or  
  3 hrs
- STA 1060C Statistics Using Excel  
  6 hrs

**D. Social Foundations**
- 6 hrs

**E. Science Foundations**
- 6 hrs

### 2. Common Program Prerequisites
**SPC 1600 Fund Oral Communication**  
GEP

### 3. Core requirements
**ADV 3000 Principles of Advertising**  
3 hrs
**ADV 4101 Advertising Copywriting**  
3 hrs
**ADV 4103 Radio-TV Advertising**  
3 hrs
**COM 3110 Business and Prof Communication**  
3 hrs
**MCC 4254 Ad/PR Campaigns**  
3 hrs
**MMC 3420 Mass Media Research Methods**  
3 hrs
**MMC 4200 Mass Communication Law**  
3 hrs
**Pur 3100 Writing for Public Relations**  
3 hrs
**Pur 4000 Public Relations**  
3 hrs
**Pur 4801 Public Relations Case Studies**  
3 hrs

Students who complete a 3-hour internship may take either
- Pur 4801 or Adv 4103
- Pur 4941 Internship
- Adv 4941 Internship

### 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 program admission test

### 5. Foreign Language Requirements
**Admission:** Met by graduation requirement  
**Graduation:** One year or equivalent proficiency exam

### 6. Electives
**(variable)**
- Select primarily from upper level courses, with School advisor’s approval. Should be taken outside of the School of Communication.

### 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)

### 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

### 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**

### 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 aerospace engineering academic advisor in the department of his/her major.
- Each student must 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 the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

#### A. Communication Foundations
1. Take ENC 1101  
2. Take ENC 1102  
3. Prefer SPC 1016

#### B. Cultural and Historical Foundations
1. Take ENC 1101  
2. Take ENC 1102  
3. Prefer SPC 1016

#### C. Mathematical Foundations
1. Take MAC 2282, Calculus for Scientists and Engineers (4hrs)  
   Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
2. Take STA 3032 (3 hrs)  
   Note: Calculus II is the prerequisite for this course.

#### D. Social Foundations
1. Take eco 2023 or eco 2023  
2. Take ANT 2000, PSY 2012, or SYG 2000

#### E. Science Foundations
1. Take PHY 2048/48L  
2. Prefer GEO 1200 or GEO 2370

### 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. All engineering students must remain in the Calculus sequence which they begin. Students who begin with MAC 2281, Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311,
UCF Degree Programs

Calculus with Analytic Geometry I, must continue with MAC 2312 and MAC 2313. MAC 2281-MAC 2282-MAC 2283 is the preferred sequence for engineering students. The courses in these two sequences are not individually interchangeable. Note: MAC 2281 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 2281 Calculus for Scientists & Engineers I (MAC 2311 will substitute see above) 4 hrs
MAC 2282 Calculus for Scientists & Engineers II (MAC 2312 will substitute see above) 4 hrs
MAC 2283 Calculus for Scientists & Engineers III (MAC 2313 will substitute see above) 4 hrs
MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I 4 hrs
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP
EAS 4200 Flight Structures 3 hrs
PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
EAS 3810C Aerosp Eng Msr 3 hrs
EGN 3373 Principles of Electrical Engg or
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3312 Engineering Analysis - Dynamics 3 hrs
EGN 3343 Aerodynamics 3 hrs
EAS 3706 Structure & Properties of Aerospace Materials 3 hrs
EGN 3373 Principles of Electrical Engineering 3 hrs
STA 3032 Probability & Statistics for Engineers 2 hrs
EAS 3101 Aerodynamics 3 hrs
EAS 3800C Aerospace Engineering Measurements 3 hrs
EAS 3810C Design of Aerospace Experiments 2 hrs
EML 3010 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 4503 Aerothermodynamics-Propulsion Sys 3 hrs
EML 3034 Modeling Methods in MAE 3 hrs
EML 3312C Feedback Control 3 hrs
EML 3601 Solid Mechanics 3 hrs
EML 3701 Fluid Mechanics II 3 hrs
EAS 3404C Discrete Control Aerospace Vehicles 3 hrs
EML 4533C Introduction to CAD/CAM 3 hrs

4. Approved Technical Electives (5 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 terms 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 or EGN 4413C Interdisciplinary Design II or EAS 4710C Aerospace Design II 3 hrs
- CECs encourages all engineering students to take the Engineering Intern 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 2.0 UCF GPA.

8. Degree Completion Requirements

- 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: Mechanical Engineering, Aerospace Engineering, Space Studies, Nuclear Engineering, Electrical Engineering, Computer Science

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 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 - 128 semester hours required

FIRST YEAR

- 1st Fall (14 credit hrs, 18 cont hrs)
  1. ENC 1101 English Com II 3 hrs
  2. PHY 2048 Phys Eng/Sci I w/lab 4 hrs
  3. MAC 2281 Calculus I 4 hrs
  4. MAC 2282 Calculus II 4 hrs
- 1st Spring (14 credit hrs, 18 cont hrs)
  1. ENC 1102 English Com II 3 hrs
  2. MAC 2283 Calculus III 4 hrs
  3. PHY 2049 Phys Eng II w/lab 4 hrs
  4. EAS 3800C Aerosp Eng Msr 3 hrs

SECOND YEAR

- 2nd Fall (13 credit hrs, 17 cont hrs)
  1. Humanities/History 4 hrs
  2. EAS 3706 Strutt & Prop of Aerospace Mat I 3 hrs
  3. MAC 2313 Calculus III 3 hrs
  4. EML 3601 Solid Mechanics 3 hrs
- 2nd Spring (13 credit hrs, 17 cont hrs)
  1. Humanities/History 4 hrs
  2. CSC 2452C C Programming 3 hrs
  3. EML 3701 Fluid Mechanics II 3 hrs
  4. EAS 3810C Aerosp Eng Msr 3 hrs
  5. EML 3801C Fluid Mechanics I 3 hrs
- 2nd Summer (10 credit hrs, 10 cont hrs)
  1. MAC 2283 Calculus III or
  2. MAC 3213 Calculus III 3 hrs
  3. EAS 3800C Aerosp Eng Msr 3 hrs
  4. EAS 3810C Aerosp Eng Msr 3 hrs
  5. EML 3601 Solid Mechanics 3 hrs
- 3rd Fall (15 credit hrs, 18 cont hrs)
  1. Fund of Aerodynamics 3 hrs
  2. EML 3034 Model Meth's MMEA 3 hrs
  3. EAS 3800C Aerosp Eng Msr 3 hrs
  4. EAS 3343C Design Aero Veh 3 hrs
- 3rd Spring (15 credit hrs, 18 cont hrs)
  1. Fund of Aerodynamics 3 hrs
  2. EML 3034 Model Meth's MMEA 3 hrs
  3. EML 3801C Aerosp Eng Msr 3 hrs
  4. EML 3812C Feedback Control 3 hrs
  5. EML 3810C Aerosp Eng Msr 3 hrs
- 4th Fall (15 credit hrs, 18 cont hrs)
  1. Fund of Aerodynamics 3 hrs
  2. EML 3034 Model Meth's MMEA 3 hrs
  3. EML 3801C Aerosp Eng Msr 3 hrs
  4. EML 3812C Feedback Control 3 hrs
  5. EAS 4200 Flight Structures 3 hrs

**Credit by Exam & Armed Forces credits permitted**

**Transfer Notes:**

- The tentatively offered courses may be replaced by an approved Aerospace Engineering technical elective for transfer students.

- Transfer courses may be taken on a satisfactory-option credit/grade basis and normally are awarded grades of I, S, or U.

- Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

- 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 students only. The two credit hours for these courses may be substituted by an approved Aerospace Engineering technical elective for transfer students.

- Credit by Exam and Armed Forces credits permitted.
ANTHROPOLOGY (B.A.)
College of Arts and Sciences
Department of Sociology and Anthropology, PH 403, 407-823-2227,
http://www.cas.ucf.edu/soc_anthro/firstpage.html
E-mail: anthropology@ucf.edu
J. Corzine, 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: none

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 Sociology and 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.
- 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 hrs)
- A. Communication Foundations (9 hrs)
- B. Cultural and Historical Foundations (9 hrs)
- C. Mathematical Foundations
  - Select MAC 1105 College Algebra (or higher) (3 hrs)
  - Select STA 2023 Statistical Methods I (3 hrs)
- D. Social Foundations
  - Select one: ECO 2013, ECO 2023, POS 2041 (3 hrs)
  - Select ANT 2000 General Anthropology (3 hrs)
- E. Science Foundations
  - Select one: PSC 1121, PHY 2053C, CHM 1020 (3 hrs)
  - Select ANT 2511 The Human Species (3 hrs)

2. Common Program Prerequisites (0 hrs)
- ANT 2000* General Anthropology
- ANT 2511* The Human Species
- GEP
*See Transfer Notes for possible substitutes

3. Core Requirements: Lower Level (6 hrs)
- ANT 2100 Arch & the Rise of Human Cult (3 hrs)
- ANT 2410 Cultural Anthropology (3 hrs)

4. Core Requirements: Upper Level (12 hrs)
- All students are required to take the following upper level courses in the four subdisciplines of Anthropology.
- ANT 3145 Archaeology of Complex Societies (3 hrs)
- ANT 3640 Language and Culture (3 hrs)
- ANT 4034 History of Anthropological Thought (3 hrs)
- ANT 4586 Human Origins (3 hrs)

5. Core Requirements: Area Study (3 hrs)
- All students are required to take one of the following courses:
  - ANT 3163 Mesoamerican Archaeology
  - ANT 3164 The Inca
  - ANT 3168 Maya Archaeology (or ANG 6168)
  - ANT 3311 Indians of the SE US
  - ANT XXXX Ethnology of North American Indians
  - ANT 3313 Indians of N American High Plains
  - ANT 3314 Indians of the Northeast Woodlands
  - ANT 3318 Indians of the Northwest Coast
  - ANT 3319 The Anthropology of Diaspora
  - ANT 3332 Peoples and Culture of Latin America
  - ANT 3340 Caribbean Cultures
  - ANT 3363 Anthropology of Japan
  - ANT 4308 Gender Issues in Latin America
  - ANG 6324 Contemporary Maya

6. Restricted Electives (18 hrs)
- Six other Anthropology courses must be taken to complete the major.
**UCF Degree Programs**

These may include other area study courses (see 5. above) or any other Anthropology courses that may be offered (see below).

- ANT 3115: Archaeological Method and Theory
- ANT 3142: Old World Prehistory
- ANT 3184: Archaeology of Complex Societies
- ANT 3250: Primatology
- ANT 3158: Florida Archaeology
- ANT 4153: North American Archaeology
- ANT 4180C: Seminar in Laboratory Analysis
- ANT 4824: Advanced Archaeological Field Work
- ANG 5166: Problems of Maya Archaeology
- ANG 5228: Maya Iconography
- ANT 3541: Biobehavioral Anthropology
- ANT 4521C: Forensic Anthropology
- ANT 4462: Medical Anthropology
- ANT 4525C: Human Osteology
- 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 3701: Applied Anthropology

7. **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**

- **Admission:** Met by graduation requirement.
- **Graduation:** Two semesters or equivalent proficiency exam.

9. **Electives**

- Variable courses that must be approved by the department.

10. **University Minimum Exit Requirements**

- A “C” (2.0) GPA in all work attempted (both UCF and overall)
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, 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

**Related Minors:** African-American Studies, American Studies, Anthropology, Anthropology in Multicultural Studies, Asian Studies, Judaic Studies, Latin American and Iberian 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.

**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.

**ART (B.F.A.)**

College of Arts and Sciences


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 and Animation majors must have continual access to a laptop computer. Contact the department for the minimum hardware and software specifications.

**Admission Requirements**

- All junior level students in this program must satisfactorily complete the mandatory portfolio review before enrolling in upper division courses. They must also have maintained at least a 2.5 overall GPA in all studio classes and at least a 2.5 GPA in ART 2201C and ART 2203C (Design Fundamentals) prior to their portfolio review.
- Students unable to satisfy the above requirements may continue in the Art Department as an Art History/Digital Studio Application track.
- Students may apply for the BFA Program in the first semester or their Junior year. If they have a 3.0 overall average in the Art Department and a 3.5 in their specialization they are automatically accepted. Students who do not meet these requirements may petition the BFA committee for acceptance.
- Animation B.F.A. majors should consult with an Animation advisor for admission requirements.

**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.
- Grades below “C+” (2.25) in lower level courses do not satisfy major requirements
- 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 (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: 6 hrs
   - C. Mathematical Foundations: 3 hrs
   - D. Social Foundations: 6 hrs
   - E. Science Foundations: 6 hrs

2. **Common Program Prerequisites**

   - (27 hrs)
   - ART 2201C*: Design Fundamentals I
   - ART 2203C*: Design Fundamentals II
   - ART 2300C*: Drawing Fundamentals I
   - ART 2301C*: Drawing Fundamentals II
   - ART 2820: Art as Interface
   - ARH 2050: History of Art I
   - ARH 2051: History of Art II
   - ARH 2055: Survey of Non-Western Art
   - ART 2600C*: Intro to Computer Graphics
   - ART 2XXX-4XXX any ART prefix, studio or media course

   *See Transfer Notes for possible substitutes

3. **Restricted Electives**

   - (42 hrs)
   - Specialization:
     - Select six upper division courses from one area:
       - Ceramics (ART 3780C, 4783C)
       - Animation (ART 3XXX, 4971, FIL 3286C, 3287C, 4288C*, 4289C*)
       - Drawing (ART 3332C, 4320C)
       - Drawing/Printmaking Combination (ART 3332C, 3401C, 4320C*, 4402C*)
       - Drawing/Illustration Combination (ART 3332C, 3255C, 4320C*, 4256C*)
       - Graphic Design (GRA 3100C, 3112C, 2140C, 4195C)
       - Painting (ART 3504C, 4505C*)
       - Photography (PGY 2401C, 4420C*, 4440C*)

   - 106 UNIVERSITY OF CENTRAL FLORIDA 2003-2004 Undergraduate Catalog
Sculpture (ART 2701C, ART 4710C*).
*may be repeated for credit

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, Fibers and Fabrics, Graphic Design, Illustration, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.

Additional Electives 9 hrs
ARH 3XXX-4XXX Art History Courses or
Any upper level Humanities or
Social Science course(s)
Animation specialization requires FIL 3410 and any 6 credits of upper level art courses
(A maximum of six hours of Independent Study, Practicum, and Internship are permitted.)

4. Departmental Exit Requirements 3 hrs
ART 4935 BFA Exhibit Seminar
ART 5811C The Professional Practice of Art
(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 ART 2600C

5. Foreign Language Requirements 0-8 hrs
Admission: Met by graduation requirement
Graduation: One year or equivalent proficiency exam

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 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:
ART 2201C* and 2203C*: A student may substitute a four credit ART 2201C; however, both ART 2201C and 2203C are prerequisites for subsequent art course and will need to be taken for the major.
ART 2300C* and 2301C*: A student may substitute a four credit ART 2300C; however, both ART 2300C and 2301C are prerequisites for subsequent art courses and will need to be taken for the major.
ART 2600C*: A student may substitute any three hour media course; however, ART 2600C is a prerequisite for subsequent art courses and will need to be taken for the major

ART - ANIMATION TRACK (B.F.A.)
College of Arts and Sciences
Animation, VAB 210, 407-823-3110,
http://reach.ucf.edu/~art
E-mail: animation@ucf.edu

D. Exit
Note: Although the department maintains a small computer lab for student use, Graphic Design and Animation majors must have continual access to a lap top computer. Contact the department for the minimum hardware and software specifications.

Admission Requirements
Students should complete ART 2201C and ART 2300C before applying to be accepted in the Animation BFA
Students must submit a satisfactory drawing portfolio to be admitted to FIL 3286C.
Students must maintain an overall minimum 3.0 GPA in the above courses.
Applications must include a portfolio of work done in courses, such as drawings, design projects, computer graphics, animation work, and storyboards.
Note: Unfortunately, individual reviews are not possible due to the large number of applicants to this program
Animation requires submission of a portfolio. Submission deadline for Fall term is February 2 and for Spring term September 15.

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 advisor
Departmental Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken within the UCF Art and Film programs
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 one two-semester sequence 6 hrs
Take one two-semester sequence 6 hrs
Take one two-semester sequence 6 hrs
Take one two-semester sequence 6 hrs
C. Mathematical Foundations
Select MGF 1106 Finite Mathematics 3 hrs
Select MTH 1202 Finite Mathematics (may substitute a higher level math) 3 hrs
Select CGS 1060C Intro to Computer Science 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites (21 hrs)
ART 2201C Design Fundamentals I 3 hrs
ART 2203C Design Fundamentals II 3 hrs
ART 2300C Drawing Fundamentals I 3 hrs
ART 2301C Drawing Fundamentals II 3 hrs
ARH 2050 History of Art I GEP 3 hrs
ARH 2051 History of Art II 3 hrs
ART 2600C Intro to Computer Graphics 3 hrs
ART 2XXX-4XXX any ART prefix, studio, or media course 3 hrs

3. Core Requirements 6 hrs
FIL 3410 History of Animated Films 3 hrs
Any upper level Art or Film History course 3 hrs

4. Restricted Upper Division Courses 15 hrs
Workshops may be repeated.
Animation
FIL 3286C Introduction to Animation 3 hrs
FIL 3287C Intermediate Animation 3 hrs
FIL 4288C Advanced Animation 3 hrs
FIL 4289C Animation Workshop 3 hrs
ART 3XXX Digital Effects and Compositing 3 hrs

5. Elective in Art 12 hrs
Select four courses; two may be lower division
Select from at least three of the following areas:
Ceramics, Drawing, Fibers and Fabrics, Graphic Design, Illustration, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.

6. Departmental Exit Requirements
- ART 4971 Thesis 3 hrs
- Achieve at least a “B” GPA (3.00) in courses within the major
- Computer Competency met by CGS 1060C or ART 2600C

7. Foreign Language Requirements
- (0-8 hrs)
- Admission: Met by graduation requirement
- Graduation: One year college level or equivalent proficiency exam.

8. Electives
- (variable)

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, Art Education, Art History, Film, Production/Screen writing, Radio/TV

Related Minors: Art, Digital Media, Film

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:
- ART 2600C: may substitute three hours of any computer course

ART - HISTORY TRACK (B.A.)
College of Arts and Sciences
Art Department, VAB 117, 407-823-2676
http://reach.ucf.edu/~art
E-mail: art@ucf.edu
J. Chavda, 407-823-2676

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 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

A. Communication Foundations
- 9 hrs

B. Cultural and Historical Foundations
- Take one two-semester sequence 6 hrs
- Select ARH 2050 The History of Art I 3 hrs

C. Mathematical Foundations
- Select MGF 1106 Finite Math (may substitute a higher level math) 3 hrs
- Prefer STA 1060C Statistics Using Excel 3 hrs

D. Social Foundations
- 6 hrs

2. Common Program Prerequisites
- (9 hrs)
- ART 2200C Design Fundamentals I 3 hrs
- ART 2300C Drawing Fundamentals I 3 hrs
- ARH 2050 History of Art I GEP
- ARH 2051 History of Art II 3 hrs

3. Core Requirements
- (18 hrs)
- ARH 4430 Nineteenth Century Art 3 hrs
- ARH 4450 Twentieth Century Art 3 hrs
- ARH 4600 Theory and Criticism 3 hrs
- ENC 3111 Expository Writing 3 hrs
- ART 2820 Art as Interface 3 hrs

4. Restricted Electives
- (18 hrs)

One Non-Western Art History Course:
- ARH 3520 African Art 3 hrs
- ARH 4545 Art of India 3 hrs
- ARH 4655 MosoAmerican Art 3 hrs
One of the following courses:
- ARH 4350 Baroque Art 3 hrs
- ARH 4458 Women & Art in 20th Cent America 3 hrs
- ARH 4892 Women in Art 3 hrs
Select 12 additional hours from following:
- ARH 3520 African Art 12 hrs
- ARH 3728 American Art 3 hrs
- ARH 3456 Art in Last 25 Years 3 hrs
- ARH 4458 Women and Art in 20th Century America 3 hrs
- ARH 4892 Women in Art 3 hrs
- ARH 4350 Baroque Art 3 hrs
- ARH 5478 Contemporary Women Artists 3 hrs
- ARH 4170 Greek and Roman 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 4655 MosoAmerican Art 3 hrs
- ARH 3831 Southern Folk Arts 3 hrs
- ARH 3820 Visual Arts Administration 3 hrs
- ARH 5933 Sen. in African & African-American Arts 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, ART 2600C, or ARH 3820

6. Foreign Language Requirements
- (0-14 hrs)
- Admission: Met by graduation requirement.
- Graduation: Two years or equivalent proficiency exam.

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: 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.
ART - STUDIO TRACK (B.A.)

College of Arts and Sciences
Art Department VAB 117, 407-823-2676
http://reach.ucf.edu/~art/
E-mail: art@ucf.edu

J. Chavda, 407-823-2676

Note: Although the department maintains a small computer lab for student use, Graphic Design and Animation majors must have continual access to a lap top computer. Contact the department for the minimum hardware and software specifications.

Continuation Requirements
- All junior level students in this program must satisfactorily complete the mandatory portfolio review before enrolling in upper division courses. They must also have maintained at least a 2.5 overall GPA in all studio classes and at least a 2.5 GPA in ART 2201C and ART 2203C (Design Fundamentals) prior to their portfolio review.
- Students unable to satisfy the above requirements may continue in the Art Department as an Art History/Digital Studio Application track.
- A second portfolio is required for the Graphics Design Specialization. Deadline for application is April 1st prior to beginning the Fall of the Junior year.
- A second portfolio is required for the Animation Specialization. Deadlines for application are September 15 for Spring term and February 2 for the Fall term.

Note: Unfortunately, individual reviews are not possible due to the large number of applicants to these programs.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below “C+” (2.25) in lower level courses do not satisfy major requirements.
- Co-op credit cannot be used in the major.
- Students should consult with a departmental advisor in their specialization.
- 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.
- 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
   - Take one two-semester sequence
   - 6 hrs
   
   C. Mathematical Foundations
   - Select 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

   ART 2201C
   - Design Fundamentals I
   - 3 hrs
   ART 2203C
   - Design Fundamentals II
   - 3 hrs
   ART 2300C
   - Drawing Fundamentals I
   - 3 hrs
   ART 2301C
   - Drawing Fundamentals II
   - 3 hrs
   ART 2820
   - Art As Interface
   - 3 hrs
   ARH 2050
   - History of Art I
   - GEP
   ARH 2051
   - History of Art II
   - 3 hrs
   ARH 2005
   - Survey of Non-Western Art
   - 3 hrs
   ART 2300C*
   - Intro to Computer Graphics
   - 3 hrs
   *See Transfer Notes for possible substitutes

3. Restricted Electives

   Specialization:
   - Select nine upper division courses from at least three area:
     - Ceramics (ART 3760C, 4783C*)
     - Drawing and Printmaking (ART 3332C, 3401C, 4320C*, 4402C*)
     - Painting (ART 3504C, 4505C*)
     - Photography (PGY 2401C, 4202C*, 4440C*)
     - Sculpture (ART 2701C, 4710C*)
     - Type & Design (GRA 311C)
     - Illustration (ART 3255C, 4256C*)

   (27 hrs)

4. Departmental Exit Requirement
   - Achieve at least a “C” GPA (2.0) in courses within the major.
   - Computer Competency met by STA 1060C or ART 2600C.

5. Foreign Language Requirements
   - (0-8 hrs)
   - Admission: Met by graduation requirement.
   - Graduation: One year or equivalent proficiency examination.

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 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 (B.FA.), Art Education, Animation, Digital Media

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:
- ART 2600C: may substitute 3 hours of any media course

ART EDUCATION (B.S.)

College of Education
Department of Teaching and Learning Principles
407-823-5791
http://www.edcollege.ucf.edu/
E-mail: tbrewer@mail.ucf.edu
Coordinator: Thomas Brewer, 407-823-3714,

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 four parts of the CLAST examination
- Complete prerequisite courses

Degree Requirements
- Students should see an advisor

1. UCF General Education Program

   A. Communication Foundations
   - ENC 1101
   - Composition I
   - 3 hrs
   ENC 1102
   - Composition II
   - 3 hrs
   SPC 1600
   - Fundamentals of Oral Communication
   - 3 hrs
   
   B. Cultural-Historical Foundations
   - AMH 2010
   - U.S. History 1492-1877
   - 3 hrs
   AMH 2020
   - U.S. History 1877-Present
   - 3 hrs
   PHI 2010
   - Introduction to Philosophy
   - 3 hrs
   
   C. Mathematical Foundations
   - MGF 1106
   - Finite Mathematics
   - 3 hrs
   Select one:
   - STA 1060C
   - Basic Statistics using MS Excel or STA 2023C
   - Principles of Statistics
   - 3 hrs
   
   (6 hrs)

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UCF Degree Programs

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109
UCF Degree Programs

110 UNIVERSITY OF CENTRAL FLORIDA  2003-2004 Undergraduate Catalog

POS 2041  American National Government  3 hrs
PSY 2012  General Psychology  3 hrs

E. Science Foundations  (6 hrs)

PSC 1121  Physical Science  3 hrs
Select one:
ANT 2511  The Human Species  or
BSC 1005  Biological Principles

Note: See laboratory component under Section 2.

2. Common Program Prerequisites  (43 hrs)

A. Communications  (9 hrs)

ENC 1101  Composition I  GEP
ENC 1102  Composition II  GEP
SPC 1000  Fundamentals of Oral Communication  GEP

B. Humanities

PHI 2010  Introduction to Philosophy  GEP
ARCH 2050  The History of Art I  3 hrs

C. Mathematics  (9 hrs)

MAC 1105  College Algebra  3 hrs
MGF 1106  Finite Mathematics  GEP

One of the following (per GEP)  GEP

STA 1060C  Basic Statistics using MS Excel  or
STA 2023C  Probability and Statistics I  GEP

STA 2043C  Statistics and Probability  GEP

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)  GEP

ANT 2511  The Human Species  or
BSC 1005  Biological Principles
Select one:
AST 2002  Astronomy  or
GEO 1200  Physical Geography  or
GLY 1000  Geology and Its Applications
Select one associated science lab:  1 hr

BSC1005L  Biological Principles Laboratory  or
GEO 1200L  Physical Geography Laboratory  or

F. Education Courses  (9 hrs)

EDF 2005  Introduction to Education  3 hrs
EDG 2701  Teaching Diverse Populations  3 hrs
EME 2040  Technology for Educators  3 hrs

G. Diversity Courses  GEP

H. Other Program Prerequisites  (24 hrs)

*ARTH 2051  History of Art II  3 hrs
*ARTH 2201C  Design Fundamentals I  3 hrs
*ARTH 2203C  Design Fundamentals II  3 hrs
*ARTH 2300C  Drawing Fundamentals I  3 hrs
*ARTH 2301C  Drawing Fundamentals II  3 hrs
*ARTH 2600C  Intro to Computer Graphics  3 hrs
ART 2754C  Ceramics  3 hrs
ART 2500C  Painting  3 hrs

*Prerequisites for all 3000 and 4000 core and elective ARE and ART courses.

3. Education Core Requirements  (15 hrs)

EDG 4232  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
RED 4043  Content Reading K-12  3 hrs

4. Internship I (ESE 3940)  (3 hrs)

■ At least 50% of all required art courses must be completed before registering for Internship I.
■ See additional requirements listed under College of Education, Office of Clinical Experiences.

5. Core Requirements  (9 hrs)

ARE 4356  Teaching Art Appreciation & Criticism  3 hrs
ARE 4351  Teaching Art in the Elementary School  3 hrs
ARE 4352  Teaching Art in the Secondary School  3 hrs

6. Restricted Electives  (9 hrs)

Any 3000 or 4000 level ART, ARE, ARH, PGY (with advisor’s approval)

7. Internship II (ESE 4943)  (12 hrs)

■ All art courses and all methods courses must be completed before registering for Internship II.
■ See additional requirements listed 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.

Note: Internship II includes a 3 SH module on assessment.

8. Foreign Language Requirements  (0-8 hrs)

State University System foreign language admission: 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
B. 60 semester hours earned after CLEP awarded
C. 48 semester hours of upper division credit completed
D. 30 of the last 36 hours of course work must be completed in residence at UCF
E. 25% of course work must be completed in residency at UCF
F. Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

8. Total Semester Hours Required  127 hrs

BIOLOGY (B.S.)

College of Arts and Sciences
Biology Department, BL 210, 407-823-2141
http://pegasus.cc.ucf.edu/~biology/
E-mail: biology@ucf.edu

W. Taylor, 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 4 hours of BSC 4422L, Independent Study, Directed Research, or similar types of credit may be applied toward major requirements.
■ Departmental Residency Requirement consists of at least 22 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 of the two majors.
■ Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 semester hours.
■ A minor in Biology will not be awarded to students who expect to complete a degree or who have previously obtained a degree in any Life Science program.

1. UCF General Education Program  (36 hrs)
(Note: Certain course selections must be made in the GEP for this major. These are indicated in italics. These required selections may bring the total GEP hours to more than 36.)
A. Communication Foundations  9 hrs

Note:
■ Certain course selections must be made in the GEP for this major. These are indicated in italics. These required selections may bring the total GEP hours to more than 36.
■ E-mail: biology@ucf.edu

W. Taylor, 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 4 hours of BSC 4422L, Independent Study, Directed Research, or similar types of credit may be applied toward major requirements.
■ Departmental Residency Requirement consists of at least 22 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 of the two majors.
■ Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 semester hours.
■ A minor in Biology will not be awarded to students who expect to complete a degree or who have previously obtained a degree in any Life Science program.

1. UCF General Education Program  (36 hrs)
(Note: Certain course selections must be made in the GEP for this major. These are indicated in italics. These required selections may bring the total GEP hours to more than 36.)
A. Communication Foundations  9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
Select MAC 2231 Calculus or
MAC 2311 Calculus for Life Sciences 4 hrs
Select STA 2023 Statistical Methods I 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations
Select PHY 2053C College Physics I or
(Pr-MAC 1105 and MAC 1114)
Select BSC 21010 General Biology 4 hrs
2. Common Program Prerequisites (31 hrs)
BSC 2010C* General Biology 4 hrs
BSC 2011C* Biological Diversity 4 hrs
MAC 2311* Calculus w/ Anal Geometry I 4 hrs
STA 2023 Statistical Methods I 3 hrs
CHM 2045C Chem Fund I 4 hrs
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
3. Core requirements (22-24 hrs)
CHM 2210 Organic Chem. I 3 hrs
and
CHM 2211 & L Organic Chem. II & lab 5 hrs
or
CHM 3120C Analytical Chemistry 5 hrs
and
CHM 2205 Intro Organic & Biochemistry 5 hrs
PCB 3034 Ecology 3 hrs
PCB 3063 Genetics 3 hrs
PCB 3023 Molecular Cell Biology 3 hrs
PCB 4853 Population Biol & Evolution 4 hrs
(Note: Students planning on entering professional or graduate school should take Biochemistry (BCH 4053, 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.
No more than 12 hours of the upper division restricted electives may be taken outside the 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.
Form/Function (minimum of one lecture course)
BCH 4053 Biochemistry I 3 hrs
BCH 4054 Biochemistry II 3 hrs
b B 4223C Plant Anatomy 4 hrs
b B 4303C Plant Pathology 5 hrs
b B 4503 Plant Physiology 4 hrs
BSC 4101 History of Biology 3 hrs
PCB 3063L Genetics Lab 1 hr
PCB 3233 Immunology 3 hrs
PCB 4524 Molecular Biology II 3 hrs
a PCB 4723 Animal Physiology 4 hrs
PCB 4803L Population Bio and Evolution Lab 1 hr
PCB 5107C Adv Cell Biology 4 hrs
a PCB 5256C Adv Develop Biology 4 hrs
PCB 5565C Conser. Genetics 4 hrs
PCB 5566C Human Genetics 4 hrs
a ZOO 4713C Comparative Vert Anatomy 5 hrs
a ZOO 4603C Embryology/Development 5 hrs
a ZOO 4753C Vertebrate Histology 4 hrs
Environmental (minimum of one lecture course)
b B 5152C Local Flora 3 hrs
b B 3800 Ethnobotany 3 hrs
b B 4156C Florida Wildflowers 4 hrs
b B 4696C Conservation of Native Plants 4 hrs
b B 5623C Plant Geography & Ecology 4 hrs
BSC 4312C Marine Biology 4 hrs
PCB 3034L Ecology Laboratory 1 hr
PCB 3442 Florida Aquatic Ecology 3 hrs
PCB 4302C Physiological Limnology 4 hrs
PCB 4333C 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 5520 Behavioral Ecology 3 hrs
ZOO 4513 Animal Behavior 3 hrs
a ZOO 5815 Zoogeography 4 hrs
a ZOO 5818C Fisheries Management 4 hrs
a ZOO 5893L Repro Mgt Zool Env 1 hr
Systematic (minimum of one lecture course)
b B 4713C Plant Taxonomy 5 hrs
b B 5485C Terrestrial Cryptogams 3 hrs
a B 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 5463C Herpetology 4 hrs
a ZOO 5475C Ornithology 4 hrs
a ZOO 5486C Mammalogy 4 hrs
Additional courses (e.g., PCB 4422L and PCB 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 documents 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
60 semester hours earned after CLEP awarded
40 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: Molecular and Microbiology, Science Education, Environmental Engineering
Related Minors: Biology, 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:
The following substitutions are acceptable for common program prerequisites if taken as part of the AA course work:
**UCF Degree Programs**

- **B.SC 2010C & Lab**: may use PCB 2010, PCB 2011, PCB 2021, PCB 2131, BSC 1040, or BSC 2012
- **B.SC 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 still must be taken.
- **MAC 2311**: may use MAC 2233, MAC 2253 or MAC 2281
- **Physics**: 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.

**Biology - Preprofessional Concentration (B.S.)**

**College of Arts and Sciences**

**Biology Department, BL 210, 407-823-2141**

http://pegasus.cc.ucf.edu/~biology/

E-mail: biology@ucf.edu

D. Kuhn

Students who hope to gain admission to a professional school (medical, dental, optometry, 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**

| 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.
- 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, 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 of the two majors.
- Courses designated in 2 (Common Program Prerequisites) and 3 (Core Requirements) are usually completed in the first 60 hours.
- A minor in Biology will not be awarded to students who expect to complete a degree or who have previously obtained a degree in any Life Science program.

**1. UCF General Education Program (39 hrs)**

| A. Communication Foundations | 9 hrs |
| B. Cultural and Historical Foundations | 9 hrs |
| C. Mathematical Foundations | 9 hrs |

**Select MAC 2311 Calculus or MAC 2241 Calculus for Life Sciences**

**Select STA 2023 Statistical Methods I**

**D. Social Foundations**

| Prefer PSY 2012 General Psychology | 3 hrs |
| Prefer ECO 2013 Macroeconomics | 3 hrs |

**E. Science Foundations**

| Prefer PHY 2048 & L College Physics & lab | 4 hrs |
| Select BSC 2010C General Biology | 4 hrs |

**2. Common Program Prerequisites (16 hrs)**

| BSC 2010C* General Biology | GEP |
| BSC 2011C* Biological Diversity | 4 hrs |
| MAC 2311* Calculus w/ Analytic Geometry | GEP |
| STA 2023* Statistical Methods I | GEP |
| CHM 2045C* Chem Fund I | 4 hrs |
| CHM 2046 & L Chem. Fund II & lab | 4 hrs |
| PHY 2048* & L Physics for Engr. & Sci. I & Lab | GEP |
| PHY 2049* & L Physics for Engr. & Sci. II & Lab | 4 hrs |

*See Transfer Notes for possible substitutes.

**3. Additional Core requirements (22 hrs)**

| PCB 3034 Ecology | 3 hrs |
| PCB 3063 Genetics | 3 hrs |
| CHM 2210 Organic Chem. I | 3 hrs |
| CHM 2211 & L Organic Chem. II & lab | 5 hrs |
| PCB 3023 Molecular Cell Biology | 3 hrs |
| PCB 4693 Population Biology & Evolution | 4 hrs |

**4. Restricted Electives (Suggested) (22 hrs)**

The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school’s requirements.

**Form/Function**

| BCH 4053 Biochemistry I | 3 hrs |
| BCH 4054 Biochemistry II | 3 hrs |
| PCB 4624 Molecular Biology I | 3 hrs |
| PCB 3233 Immunology | 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 |

**Environmental**

| b BOT 3800 Ethnobotany | 3 hrs |
| Systematic | |
| a MCB 3202C General Microbiology | 5 hrs |
| a ZOO 4025C Bio & Ecol of Metazoon 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 1) check and maintain their campus electronic mail account and 2) be capable of locating, viewing, and retrieving documents 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 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 proficiency exam) prior to graduation.

**Graduation:**

| none |

(Spanish highly recommended)

**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:** Biology, Chemistry, Molecular/Microbiology

**Related Minors:**

| none |

**Transfer Notes:**

- Courses taken at community colleges do not substitute for Upper Division courses.
Students should complete the General Education Program, "Students who change degree programs and select this major Degree Requirements

Admission Requirements

E-mail: worrell@mail.ucf.edu

Undergraduate Program Director:

http://www.cohpa.ucf.edu/health.pro/

CARDIOPULMONARY SCIENCES (B.S.)

College of Health and Public Affairs

HPA2 210; 407-823-2214

http://www.cohpa.ucf.edu/health.pro/

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 1 of the year admission is sought.

UCF application must also be submitted by the program deadline of February 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.

A personal interview is also required.

Student must complete all general education, foreign language admissions, and program prerequisites by the end of Spring Semester before starting 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". (No TSD credit may be used for prerequisite courses.)

A one page statement of intent for entry into the profession must be included with the program application.

Applicants are required to have completed a basic life support (CPR) program prior to admission to the program.

FDLE background check required prior to personal interview.

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. Students should seek advisement from the program as soon as they declare Cardiopulmonary Sciences as their major so that they are kept abreast of the articulation activity.

Note: 16 community college AA degree transfers and/or UCF under-graduates are admitted each Fall semester for the regular Cardiopulmonary Science program. Registered Respiratory Therapists (RRT’s) are admitted each semester on a space available basis and have a separate application process.

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 Common Program Prerequisites before transferring within the Florida Public University/Community College System

Student 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 Cardiopulmonary Sciences Program.

UCF Residency Requirement: 32 hours.

25% of course work must be completed in residency at UCF.

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 (36 hrs)

A. Communication Foundations 9 hrs
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
Select MAC 1105
Select STA 2023
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs
Select BSC 2010C
Select CHM 1032 and lab

2. Common Program Prerequisites (16 hrs)

MAC 1105 College Algebra GEP
STA 2023 Statistical Methods I GEP
BSC 2010C General Biology GEP
MCB 2005C Microbiology 4 hrs
ZOO 3733C Human Anatomy 4 hrs
PCB 3703C Human Physiology GE
CHM 1032&L Chemistry for Health Sciences or higher level (with lab) 4 hrs
PHY 2053C College Physics or higher lab (with lab)

* see transfer notes

3. Core Requirements (75 hrs)

RET 3025C Intro. to Respiratory Care 4 hrs
RET 3484C Cardiopulmonary Physiology 4 hrs
HSC 4550 Pathophysiologic Mechanisms 3 hrs
APB 4651 Medical Pharmacology I 2 hrs
HSC 3593C HIV Disease: A Human Concern 3 hrs
RET 4503 Chest Medicine 3 hrs
RET 4244 Life Support Systems 3 hrs
RET 3483 Respiratory Clinical Assessment 3 hrs
RET 3264C Mechanical Ventilation 3 hrs
APB 4652 Medical Pharmacology II 2 hrs
HSC 4500 Epidemiology 3 hrs
RET 4414C Pulmonary Function Studies 4 hrs
RET 3174 Pediatric Respiratory Care 3 hrs
RET 3871A Clinical Practice I 5 hrs
RET 4284 Cardiopulmonary Diagnostics I 3 hrs
RET 4715 Neonatal Medicine 3 hrs
RET 4034 Problems in Patient Management. 3 hrs
RET 3875 Clinical Practice II 8 hrs
RET 4285 Cardiopulmonary Diagnostics II 3 hrs
RET 4934 Selected Topics in Respiratory Care 2 hrs
RET 4876 Clinical Practice III 8 hrs

4. Upper Division Restricted Electives

5. Departmental Exit Requirements (127 hrs)

Cardiopulmonary Sciences GPA requirement minimum 2.5 overall required for admission and graduation.

6. Electives

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

UCF Degree Programs

Limited Access

Note: To be considered for admission to the Cardiopulmonary Science program, Registered Respiratory Therapists (RRT’s) must complete the American Red Cross (CPR) program prior to admission to the program.

Note: A one page statement of intent for entry into the profession must be included with the program application.

Public University/Community College System

Student 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 Cardiopulmonary Sciences Program.

UCF Residency Requirement: 32 hours.

25% of course work must be completed in residency at UCF.

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 (36 hrs)

A. Communication Foundations 9 hrs
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
Select MAC 1105
Select STA 2023
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs
Select BSC 2010C
Select CHM 1032 and lab

2. Common Program Prerequisites (16 hrs)

MAC 1105 College Algebra GEP
STA 2023 Statistical Methods I GEP
BSC 2010C General Biology GEP
MCB 2005C Microbiology 4 hrs
ZOO 3733C Human Anatomy* 4 hrs
PCB 3703C Human Physiology 4 hrs
CHM 1032&L Chemistry for Health Sciences or higher level (with lab) 4 hrs
PHY 2053C College Physics or higher lab (with lab)

* see transfer notes

3. Core Requirements (75 hrs)

RET 3025C Intro. to Respiratory Care 4 hrs
RET 3484C Cardiopulmonary Physiology 4 hrs
HSC 4550 Pathophysiologic Mechanisms 3 hrs
APB 4651 Medical Pharmacology I 2 hrs
HSC 3593C HIV Disease: A Human Concern 3 hrs
RET 4503 Chest Medicine 3 hrs
RET 4244 Life Support Systems 3 hrs
RET 3483 Respiratory Clinical Assessment 3 hrs
RET 3264C Mechanical Ventilation 3 hrs
APB 4652 Medical Pharmacology II 2 hrs
HSC 4500 Epidemiology 3 hrs
RET 4414C Pulmonary Function Studies 4 hrs
RET 3174 Pediatric Respiratory Care 3 hrs
RET 3871A Clinical Practice I 5 hrs
RET 4284 Cardiopulmonary Diagnostics I 3 hrs
RET 4715 Neonatal Medicine 3 hrs
RET 4034 Problems in Patient Management. 3 hrs
RET 3875 Clinical Practice II 8 hrs
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RET 4934 Selected Topics in Respiratory Care 2 hrs
RET 4876 Clinical Practice III 8 hrs

4. Upper Division Restricted Electives

5. Departmental Exit Requirements (127 hrs)

Cardiopulmonary Sciences GPA requirement minimum 2.5 overall required for admission and graduation.

6. Electives

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

Limited Access
### UCF Degree Programs

- 48 semester hours of upper division credit completed
- 32 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** 127 hrs

**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:**
Registered Respiratory Therapist / RRT Transfer-Credit by Examination is available for Registered Respiratory Therapists for 26 credits of course work. Credit will be awarded by the Cardio-pulmonary Sciences faculty when students demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. This knowledge may be demonstrated by successful completion of the two part registry examination 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 competencies and will be awarded credit in their final semester with grades of "S" recorded in their transcripts.

### Tentative Course Schedule for Entering Freshmen

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4. Upper Division Restricted Electives (5 hrs)

- BCH 4054 Biochemistry II 3 hrs
- CHM 5225 Advanced Organic Chem I 3 hrs
- CHM 4220 Organic Chem III 3 hrs
- CHM 5235 Applied Molec Spectroscopy 3 hrs
- CHM 5580 Advanced Physical Chem 3 hrs
- CHM 5450 Polymer Chemistry 3 hrs
- CHM 5451C Techniques in Polymer Chemistry 3 hrs
- CHS 4200 Concepts in Industrial Chem 3 hrs
- CHM 4615 Environmental Chem 3 hrs

5. Directed Elective (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 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 three weeks prior to the last day of regularly scheduled classes 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 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: 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 2045C*: may use CHM 1040 plus CHM 1041
- PHY 2048 & Lab: may use PHY 2053C
- PHY 2049* & Lab: may use PHY 2054C
- Physics: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, both Physics courses and Organic Chemistry classes are required for graduation.
- The sequence MAC 2281, 2282, 2283 can be substituted for MAC 2311, 2312, 2313.

CINEMA STUDIES TRACK in FILM
See Film - Cinema Studies Track

CIVIL ENGINEERING (B.S.C.E.)
College of Engineering and Computer Science

Manoj Chopra, E-Mail: chopra@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 (38 hrs)
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. Take ENC 1101
2. Take ENC 1102
3. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs
1. Take MAC 2281, Calculus for Scientists and Engineers I (4 hrs)
Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
2. Take STA 3032 (3 hrs)

C. Mathematical Foundations 7 hrs
1. Take MAT 2370
2. Take ANT 2000, PSY 2012, or ANT 2050
3. Take ENC 1100

D. Social Foundations 6 hrs
1. Take ECO 2013 or ECO 2023.

E. Science Foundations 9 hrs
1. Take MAC 2281
2. Take PHY 2048/48L
3. Take one course from either Earth Science (GLY 1030 or GEO 1200 or GEO 2370) or Biological Science (BSC 1005 or BSC 1050). Earth Science is preferred.

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. Note: MAC 2281 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 or CHM 2045L Chemistry Fundamentals I with Lab 4 hrs
CIVIL ENGINEERING - CONSTRUCTION ENGINEERING
CONCENTRATION (B.S.C.E.)

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 3365 Structure & Properties of Materials 3 hrs
EGN 3373 Principles of Electrical Engneering 3 hrs
EGN 3613 Engineering Economic Analysis 2 hrs
CCE 4003 Intro to the Construction Industry 3 hrs
ENV 4001 Intro to Environmental Engineering 3 hrs
STA 3302 Probability & Statistics for Engineers GEP
CEG 4101C Geotechnical Engneering I 4 hrs
CES 4100C Structural Analysis I 4 hrs
CES 4105 Steel Structures or CES 4702 Reinforced Concrete Structures 3 hrs
CWR 3201 Engineering Fluid Mechanics 3 hrs
CWR 4101C Hydrology 3 hrs
CWR 4201C Hydraulics 3 hrs
ENV 4561 Environment Engrng-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 Engineering Intern Exam during their Senior year.

Earn a minimum graduating GPA of 2.25 in each of the following two areas: (a) the Engineering Core and (b) the Civil Engineering Option, which includes the major courses from 3., above, the technical electives in 4., and the approved CE project design 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: Environmental Engineering

Related Minors: Mathematics.

Transfer Notes:

Courses taken from College Communities 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'  Spring 15 hrs'

MAC 2281 Calc Sci & Eng I 3  ENC 3102 English Comp II 3
*MAC 2281 Calc Sci & Eng I 4  *MAC 2282 Calc Sci & Eng II 4
*MAC 2281 Calc Sci & Eng I 3  *MAC 2282 Calc Sci & Eng II 4
*SPC 1016 Tech Presentations 3  *PHY 2048/L Phys Engr I w/lab 4
*ECO 2013 Microeconomics or *ECO 2023 Microeconomics
*MAC 2282 Calc Sci & Eng II 4  *ECO 2203 Microeconomics
EGN 1006C Intro To Eng Prof 1  EGN 1007C Eng Con & Meth 1

SECOND YEAR

Fall 16 hrs'  Spring 16 hrs'

MAC 2282 Calc Sci & Eng II 4  MAP 2302 Diff Equations 3
*MAC 2282 Diff Equations 3  *MAP 2302 Diff Equations 3
*CHM 2045CL Chem Funds I 4  *CHM 2045CL Chem Funds II 3
*CHM 2045CL Chem Funds I 4  *CHM 2045CL Chem Funds II 3
*HUM/AMH/EUH - I 3  *PHY 2049/L Phys Engr II w/lab 4
EGN 3310 Engr Anal - Statics 3  EGN 3310 Engr Anal - Statics
*HUM/AMH/EUH - II 3  EGN 3310 Engr Anal - Statics
EGN 3561 Egn Econ Anal 2  EGN 3561 Egn Econ Anal
EGN 3613 Egn Econ Anal-Dynamic 3  EGN 3613 Egn Econ Anal-Dynamic

Summer 9 hrs'

*SUR 2101C Surveying 3  EGN 3331 Mech of Materials 3
EGN 3331 Mech of Materials 3  ENV 3001 Intro to Environ Eng 3

THIRD YEAR

Fall 16 hrs'  Spring 15 hrs'

CWR 3201 Engr Fluid Mechanics 3  CRM 4101C Hydrology 3
CCE 4003 Intro to Const Indus 3  CRM 4203C Hydraulics 3
EGN 3343 Thermodynamics 3  EGN 3343 Thermodynamics 3
CES 4100C Structural Analysis I 3  *Cultural/Historical Elective 3
STA 3302 Prob/Stats for Engrs 3  *ANT/PSYSYSIG or
EGN 3306 Eng Egn Econ Anal 2  *ANT/PSYSYSIG or
EGN 3306 Eng Egn Econ Anal 2  *ANT/PSYSYSIG or

FOURTH YEAR

Fall 15 hrs'  Spring 12 hrs'

TTE 4004 Transportation Eng 4  Approved Project Design Course 3
ENG 3616 Engr-Prog Design 4  Approved Project Design Course 3
CEG 4101C Geotechnical Engr 4  CES 4702 Reinforced Concrete
CWR 4201C Hydraulics 3  Sturctures 3
CWR 4201C Hydraulics 3  CES 4605 Steel Structures or
CWR 4201C Hydraulics 3  Technical Elective

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. Either CES 4605 Steel Structures or CES 4702 Reinforced Concrete Structures is required for all students.
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. Take ENC 1101
2. Take ENC 1102
3. Prefer SPC 1016
B. Cultural and Historical Foundations
C. Mathematical Foundations
1. Take MAC 2281L, Calculus for Scientists and Engineers I (4 hrs).
   Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
2. Take STA 3032 (3 hrs)
   Note: Calculus II is the prerequisite for this course.
D. Social Foundations
E. Science Foundations
1. Take PHY 2048/48L.
2. Take one course from either Earth Science (GLY 1030 or GEO 1200 or GEO 2370) or Biological Science (BSC 1005 or BSC 1050). Earth Science preferred.

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. Note: MAC 2281 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 2281 Calculus for Scientists and Engineers I (MAC 2311 will substitute see above) 4 hrs
MAC 2282 Calculus for Scientists and Engineers II (MAC 2312 will substitute see above) 4 hrs
MAC 2283 Calculus for Scientists and Engineers III (MAC 2313 will substitute see above) 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 4 hrs
ENC 1102 Composition II 4 hrs
Humanities Courses 6 hrs
Social Science Courses 6 hrs
Humanities or Social Sciences 6 hrs

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

4. Approved Technical Electives
Technical 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 Elect Engr) as the technical elective. Other courses on 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

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

Total Semester Hours Required: 128 hrs

Related Programs: Environmental Engineering.
Related Minors: Mathematics.
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 15 hrs 2
ENC 1101 English Comp I 3  ENC 1102 English Comp II 3
MAC 2281 Calc Sci & Eng I 4  MAC 2282 Calc Sci & Eng II 4
SPO 101 Tech Presentations 3  PHY 2048L Phys Engr I w/lab 4
ECC 2023 Microeconomics 3  ANT/PSY/SYG or
EE 1006 Intro to Eng Prof 1  EGN 1007 Eng Con & Meth 1

Spring 16 hrs 1 16 hrs 2
MAC 2283 Calc Sci & Eng III 4  MAP 2211 Diff Equations 3
*CHM 2045L Chem Funds I 4  *CHM 2046 Chemistry Funds II 3
*HUM/AMH/ENG - I 3  *PHY 2049/L Phys Eng II w/lab 4
EGN 3310 Engr Anal - Statics 3  EGN 3311 Mech of Materials 3
EGN 3613 Eng Econ Anal 2  EGN 3331 Mech of Materials 3

Summer 9 hrs 1
*SUR 2101C Surveying 3
STA 3023 Prob/Stats Engineers 3
ENV 3001 Intro to Environ Eng 3

SECOND YEAR

Fall 16 hrs 1 15 hrs 1
MAC 2284 Calc Sci & Eng IV 4  *MAP 2202 Diff Equations 3
*CHM 2054L Chem Funds II 4  *CHM 2055 Chemistry Funds II 3
*HUM/AMH/ENG - II 3  *PHY 2051L Phys Eng II w/lab 4
EGN 3310 Engr Anal - Statics 3  EGN 3311 Mech of Materials 3
EGN 3613 Eng Econ Anal 2  EGN 3331 Mech of Materials 3

Spring 16 hrs 1 16 hrs 1
*MAC 2323 Calc Sci & Eng III 4  *MAP 2202 Diff Equations 3
*CHM 2054L Chem Funds II 4  *CHM 2055 Chemistry Funds II 3
*HUM/AMH/ENG - II 3  *PHY 2051L Phys Eng II w/lab 4
EGN 3310 Engr Anal - Statics 3  EGN 3311 Mech of Materials 3
EGN 3613 Eng Econ Anal 2  EGN 3331 Mech of Materials 3

Summer 9 hrs 1
*SUR 2101C Surveying 3
STA 3023 Prob/Stats Engineers 3
ENV 3001 Intro to Environ Eng 3

THIRD YEAR

Fall 16 hrs 1 15 hrs 1
EGN 3321 Eng Anal-Dynamics 3  ACG 2071 Accounting 3
CCE 4003 Intro Constr. Industry 3  CES 4702 Reinforced Concrete 3
CES 4100C Structural Analysis I 4  Structures or CES 4605 Steel 3
*ANT/PSY/SYG or  *GEO/GLY/BSC
EGN 3604 Constr Mat & Prop 3  or
EGN 3605 Struc & Prop of Mat 3  *Cultural/Historical Elective 3

Spring 16 hrs 1 16 hrs 1
EGN 3321 Eng Anal-Dynamics 3  ACG 2071 Accounting 3
CCE 4003 Intro Constr. Industry 3  CES 4702 Reinforced Concrete 3
CES 4100C Structural Analysis I 4  Structures or CES 4605 Steel 3
*ANT/PSY/SYG or  *GEO/GLY/BSC
EGN 3604 Constr Mat & Prop 3  or
EGN 3605 Struc & Prop of Mat 3  *Cultural/Historical Elective 3

Fourth Year

Fall 15 hrs 1 13 hrs
TTE 4004 Transportation Engr 4  CCE 4810 Constr Design Project 4
CCE 4034 Constr Est & Sched 3  CCE 4402 Constr Equip & Prod 3
CEG 4101C Geotechnical Engr 4  CEG 4801C Geotech Engr Design 3
CCE 4813 Mech & Elec Bilgds 4  Technical Elective 3

Spring 13 hrs
CCE 4810 Constr Design Project 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 UCF GEP elsewhere in this catalog for further information.

COMMUNICATIVE DISORDERS (B.A., B.S.)

College of Health and Public Affairs, HPA2 101
http://www.cohpa.ucf.edu/comdis/
Chair: R. Jane Lieberman, Phone: 407-823-4798
Undergraduate Coordinator: Jamie Schwartz
E-mail: schwart@mail.ucf.edu
Phone: 407-823-4798

Admission Requirements

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 must attend an orientation and consult with a departmental advisor
- The courses designated in section 1 below may be taken at a Florida Community College, and usually should be completed in the first 60 hours
- Students must earn at least a “C-” (1.75) in each required course and restricted elective
- The courses designated in section 1 (General Education) should usually be completed in the first 60 hours

1. UCF General Education Program
   A. Communication Foundations
      9 hrs
   B. Cultural Historical Foundations
      9 hrs
   C. Mathematical Foundation
      6 hrs
   D. Social Foundations
      6 hrs

Select one of the listed choices (ECO 2013, ECO 2023, POS 2041, SYG 2000, ANT 2000)

2. Common Program Prerequisites
   none

3. Core Requirements
   (58 hrs)
   DEP 2004 Developmental Psychology 3 hrs
   SPA 3002 Introduction to Communicative Disorders 3 hrs
   SPA 3101 Basic Phonetics 3 hrs
   SPA 3112 Basic Phonetics Lab 1 hr
   SPA 3116 Language Development: Birth through 8 yrs 3 hrs
   SPA 3111 Speech Science I: Speech Production 3 hrs
   SPA 3111L Speech Production Lab 1 hr
   SPA 3717 Language Development: 9 through 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 4201 Articulation/Phonological Disorders 3 hrs
   SPA 4032 Audiology 3 hrs
   SPA 4003 Language Analysis 3 hrs
   SPA 4004 Language Analysis Lab 1 hr
   SPA 4400 Language Disorders Across the Lifespan 3 hrs
   SPA 4321 Aural Habilitation-Rehabilitation 3 hrs
   EAB 4703 Principles of Behavior Management 3 hrs
   EDF 3307 Learning Environ & Guidance for Young Children 3 hrs
   SPA 4500L Clinical Observation 3 hrs
   SPA 4550 Clinical Methods 3 hrs
   SPA 4052L Clinical Practice: Participant 3 hrs
   Observation

4. Statistics Requirement
   STA 2023 Statistical Methods I GEP 6 hrs
   STA 4163 Statistical Methods II or
   HSA 4701 Introduction to Research in the Health Professions 6 hrs

5. Upper Division Restricted Electives
   (6 hrs)
   Additional six credit hours of upper division course work in Communicative Disorders selected in consultation with the academic advisor.

6. Departmental Exit Requirements
   Students must achieve a minimum grade of “C-” (1.75) in all required courses and restricted electives in the Department.

7. Electives
   (6 hrs min)
   Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year in college.

8. 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 only be used for restricted electives or foreign language admission requirement. It does not satisfy B.A. language requirement.
   Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year.

9. University Minimum Exit Requirements
   (120 hrs)
   A. 2.0 UCF GPA
   B. 60 semester hours earned after CLEP awarded
   C. 48 semester hours of upper division credit completed
   D. 30 of the last 36 hours of course work must be completed in residence at UCF
   E. A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   F. Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)
Certification in speech-language pathology by the American Speech-Language-Hearing Association 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 School of Electrical Engineering and Computer Science


C. S. Bauer Jr., E-Mail: bauer@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. Take ENC 1101
2. Take ENC 1102
3. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs

1. Take MAC 2282 Calculus for Scientists & Engineers II (4 hrs)

Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.

2. Take STA 3023 (3 hrs)

Note: Calculus II is the prerequisite for this course.

D. Social Foundations

1. Take ECO 2013 or ECO 2023.

E. Science Foundations 7 hrs

1. Take PHY 2048/2048L.
2. Prefer either GEO 1200 or GEO 2370.

### 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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I must continue with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable.

Note: MAC 2281 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

#### 1400

1. Take MAC 2282 Calculus for Scientists & Engineers II (MAC 2311 will substitute see above).
2. Take MAC 2283 Calculus for Scientists & Engineers III (MAC 2313 will substitute see above).
3. MAP 2302 Differential Equations (MAC 2313 will substitute see above)

**Note:**

- CHS 1440 Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute) 4 hrs
- MAC 2281 Calculus for Scientists & Engineers I (MAC 2311 will substitute see above) 4 hrs
- MAC 2282 Calculus for Scientists & Engineers II (MAC 2312 will substitute see above) 4 hrs
- MAC 2283 Calculus for Scientists & Engineers III (MAC 2313 will substitute see above) 4 hrs
- MAP 2302 Differential Equations 3 hrs
UCF Degree Programs

Computer Science, Electrical Engineering, Related Programs:

Electrical Engineering Technology (Computer 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.

3. Courses Required for the Major (59 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 100C Intro to the Engineering Profession 1 hr
EGN 1007C Engineering Concepts & Methods 1 hr
EGN 3310 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 GEP
PHY 3101 Physics for Engineers & Scientists III 3 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 3657 Linear Control Systems 3 hrs
EEL 3801C Intro to Computer Engineering 3 hrs
EEL 4767C Computer System Design I 4 hrs
EEL 4780C 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

4. 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.

5. 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 Engineering Intern 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 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

Computer Engineering - 128 semester hours required

FIRST YEAR

Fall 14 hrs 13 Spring 12 hrs 13
* C & H Hist Foundations 1a 3 * ENC 1102 English Comp II 3
* ENC 1101 English Comp I 3 * EGN 1007C Eng Conc & Meth 1
* EPG 1016 Tech Presentations 3 * MAC 2281 Calc Sci & Eng II 4
EGN 1006C Intro to Eng Engr 1 * PHY 2048L Phys for EngSci I 4
* MAC 2281 Calc Sci & Eng I 4

Summer 10 hrs 1 * Social Foundations 1 3
* Science Foundations 2 3
* MAC 2283 Calc Sci & Eng III 4

SECOND YEAR

Fall 17 hrs 1 * MAP 2302 Diff Equations 3 * EGN 3231 Engr Anal-Dynamics 5
* PHY 2049/L Lab Engr/Sci II 3 * MAC 2282 Calc Sci & Eng IV 4
* PHY 2049L Lab Engr/Sci II 1 * EGN 3235 Thermodynamics 4
CHS 1440 Chem for Engr 4 * PHY 3101 Physics Engr/Sci III 3
EGN 3310 Engr Anal-Statics 3 * EEL 3342C Intro Dig Circ/Sys 3
EGN 3420 Eng Analysis 3 * EEL 3801C Intro Comp Engr 3
EGN 3358C Cmp Sys Dsgn II 4 * EEL 3004 Electrical Networks 3
EGN 3321 Engr Anal-Dynamics 4

Summer 6 hrs 2 * ECO 2013 Macroeconomics or
* MAC 2283 Microeconomics 3
* Cult & Hist Foundations 1b 3

THIRD YEAR

Fall 14 hrs 1 EEL 3306 Semicond Dev I 3 EEL 3307C Electronics I 4
* EEL 4851C Eng Data Struc 4 EEL 3657 Linear Control Sys 3
STC 3032 Prob/Stat for Engr I 3 EEL 4768C Cmp Sys Dsgn II 4
EEL 3801C Intro to Computer Engineering 3 EEL 4882 Engr Engr Sys SW 3
EGN 3420 Eng Analysis 3

Spring 14 hrs 1 EEL 4768C Cmp Sys Dsgn II 4 * Cult & Hist Foundations 2 3
EEL 4884C Engr SW Dsgn 4 Approved Technical Elective 3
EEL 4914 Senior Design I 3 EEL 4915L Senior Design II 3
Approved Technical Elective 3 EEL 4761 Cmp Comm Networks 3

FORTH YEAR

Fall 12 hrs 2 EEL 4768C Cmp Sys Dsgn II 3
EGN 3310 Engr Anal-Statics 3
EEL 4884C Cmp Sys SW Dsgn 3
Approved Technical Elective 3

Spring 12 hrs 2 EEL 4768C Cmp Sys Dsgn II 4
* C & H Hist Foundations 1 3
EEL 4884C Cmp Sys SW Dsgn 4
Approved Technical Elective 3

Notes:

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering A.A 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 1007C and EGN 1000C 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.

Integrated BS/MS Degree Program

The Computer Engineering program offers the Integrated BS/MS degree to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

Computing Engineering - Software Engineering Concentration (B.S.Cp.E.)

College of Engineering and Computer Science

C. S. Bauer, Jr., E-Mail: bauer@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.
**UCF Degree Programs**

**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. Take ENC 1101
     2. Take ENC 1102
     3. Prefer SPC 1016

   **B. Cultural and Historical Foundations**
   - 9 hrs
     1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs).
     Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
     2. Take STA 2023 (3 hrs)
     Note: Calculus II is the prerequisite for this course.

   **C. Mathematical Foundations**
   - 7 hrs
     1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs).
     2. Take STA 2023 (3 hrs)

   **D. Social Foundations**
   - 6 hrs
     1. Take ECO 2013 or ECO 2023
     2. Take ANT 2000, PSY 2012, or SYG 2000

   **E. Science Foundations**
   - 7 hrs
     1. Take PHY 2048/48L
     2. Prefer either GEO 1200 or GEO 2370

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. Note: MAC 2281 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
     (CHM 2045C/45L will substitute)

   **MAC 2281**
   - Calculus for Scientists & Engineers I
   - 4 hrs
     (MAC 2311 will substitute)

   **MAC 2282**
   - Calculus for Scientists & Engineers II
   - 4 hrs
     (MAC 2312 will substitute)

   **MAC 2283**
   - Calculus for Scientists & Engineers III
   - 4 hrs
     (MAC 2313 will substitute)

   **MAP 2302**
   - Differential Equations
   - 3 hrs

   **PHY 2048/48L**
   - Physics for Engineers & Scientists I
   - 4 hrs

   **ENC 1101**
   - Composition I
   - 3 hrs

   **ENC 1102**
   - Composition II
   - 3 hrs

   **Humanities Courses**
   - 3 hrs
   - GE
   - 3 hrs
   - Social Science Courses
   - 3 hrs

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

   **EGN 3121**
   - Engineering Analysis - Statics
   - 3 hrs

   **EGN 3288L**
   - Engineering Analysis - Dynamics or Thermodynamics Heat Transfer
   - 3 hrs

   **EGN 3420**
   - Engineering Analysis
   - 3 hrs

   **STA 3023**
   - Probability & Statistics for Engineers
   - 3 hrs

   **PHY 3101**
   - Physics for Engineers & Scientists II
   - 3 hrs

   **EEL 3304**
   - Electrical Networks
   - 3 hrs

   **EEL 3123C**
   - Networks and Systems
   - 4 hrs

   **EEL 3306**
   - Semiconductor Devices I
   - 3 hrs

4. **Approved Technical Electives**

   Technical electives are available in the BScPE program to address specific student interests in a variety of technical areas. For those students with a declared interest in Software Engineering, a concentration in this area is available by taking the following technical electives, in addition to the required software engineering courses listed in 3. above.

   **EEL 588L**
   - Software Engineering I
   - 3 hrs

   **CEN 4020**
   - Component Design in Software Engr or
   - 3 hrs

   **EEL 5771C**
   - Engr App’s of Computer Graphics
   - 3 hrs

5. **Departmental Graduation Requirements**

   **EEL 4904**
   - Senior Design I
   - 3 hrs

   **EEL 4915L**
   - Senior Design II
   - 3 hrs

   CECS encourages all engineering students to take the Engineering Intern Exam during their Senior year.

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 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.

   **Total Semester Hours Required:**
   - 128 hrs

   **Related Programs:**

   **Related Minors:**
   - Applied Computer Science, Computer Science.

   **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.

   **Computer Engineering - Software Engineering Concentration**

   **128 semester hours required**

   **First Year**
   - Fall: 14 hrs
   - Spring: 12 hrs

   **Second Year**
   - Fall: 16 hrs
   - Spring: 14 hrs

   **Third Year**
   - Fall: 14 hrs
   - Spring: 12 hrs

   **Fourth Year**
   - Fall: 12 hrs
   - Spring: 14 hrs

   **Summer**
   - 10 hrs

   **Common Program Prerequisites (CPP’s)**

   - 19 hrs

   **Courses Required for the Major**

   - 59 hrs

   **Upper Division Courses**

   - 48 semester hours of upper-division credit completed.

   **Graduation:**
   - none

   **Related Programs:**


   **Related Minors:**

   - Applied Computer Science, Computer Science.

   **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.

   **Computer Engineering - Software Engineering Concentration**

   **128 semester hours required**

   **First Year**
   - Fall: 14 hrs
   - Spring: 12 hrs

   **Second Year**
   - Fall: 16 hrs
   - Spring: 14 hrs

   **Third Year**
   - Fall: 14 hrs
   - Spring: 12 hrs

   **Fourth Year**
   - Fall: 12 hrs
   - Spring: 14 hrs

   **Summer**
   - 10 hrs
The Computer Engineering program offers the Integrated BS/MS degree to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option.

Students are required to consult with a departmental advisor before passing the foundation exam. 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.

1. UCF General Education Program
   A. Communication Foundations
      Select ENC 1101, ENC 1102, or Prefer SPC 1016
   B. Cultural and Historical Foundations
      9 hrs

2. Intermediate Core
   COP 3402C Systems Software
   COP 3530C Computer Science III
   3 hrs

3. Basic Core requirements
   COP 3330 Intro to OO Programming
   COP 3502C Computer Science I
   COP 3503C Computer Science II
   STA 2023 Statistical Methods I
   ENC 3241 Technical Report Writing
   CDA 3103C Computer Organization
   3 hrs

4. Restricted Electives
   12 hrs
   4000-5000 level Computer Science courses that 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.
   4000-5000 level mathematics or statistics courses from STA, MAP, MAD, MAD, MAS prefixes and MAC 2313, MAP 2302, MAS 3105, and MAS 3106. No independent study hours, internship, or cooperative education hours are allowed.

5. School Exit Requirements
   Complete an exit survey
   Computer competency met by completion of major

6. Foreign Language Requirements
   Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
   Graduation: Proficiency exam in a second language, one semester of college level Foreign Language, or 3 credits of multicultural courses approved by Computer Science.

7. Electives
   Select primarily from upper level courses, with the student's advisor's approval. May be outside of the department.
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 Engineering, Information Technology, Management Information Systems

Related Minors and Certificates: Applied Computer Science, Computer Information Technology, Computer Science

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.

Integrated BS/MS Degree Program

The Computer Science program offers the Integrated BS/MS degree to students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BS requirements. See advisor for appropriate substitutions.

CRIMINAL JUSTICE (B.A./B.S.)

College of Health and Public Affairs

HPA I 311 407-823-2603

http://www.cohpa.ucf.edu/crim.jus/

Undergraduate Program Coordinator: David Fabianic

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 60 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
   - 6 hrs
   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
   CJS 3510 Prosecution and Adjudication
   - 3 hrs
   CJ 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 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.
   - 15 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

   (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 residence at the university.
   - 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

Freshman Year*

Fall                          14 hrs  Spring                         15 hrs
ENC 1101                     3         ENC 1102                        3
CGS 1060C                    3         MGF 1106                        3
PSC 1121 or CHM 1020         3         One course: ARH 2050, ARH 2051, MUL 2010, THE 2000, REL 2300, PHI 2010, LIT 2110, LIT 2120
CJC 3010 3                   3         Elective                        3
CJL 3510 3                   3         PAF 2102                        2
CJE 4014 3                   3         *Plan your required 9 summer hours into your course of study
CCJ Elective                 3         Summer                         3 hrs
CCJ Elective                 3         POS 2041 or ECO 2013
CCJ Elective                 3         Sophomore Year
CCJ Elective                 3
CCJ Elective                 3
CCJ Elective                 3

*Plan your required 9 summer hours into your course of study

Sophomore Year

Fall                        12 hrs  Spring                        15 hrs
SPC 1600                    3         EEU 2001 or HUM 2320 or AMH 2020
EUH 2001 or HUM 2320 or AMH 2020
CCJ Elective                3
BSC 1050 or BSC 1070        3
HUM 2230 or GEO 1200 or ANT 2511
Elective                    3

Summer                      8 hrs
(Foreign Lang I)            4
(Foreign Lang II)           4

Junior Year

Fall                      15 hrs  Spring                        15 hrs
CCJ 3024                   3         CJE 4014                        3
CCJ 3014                   3
CCJ Elective               3
CCJ Elective               3
Supporting Elective        3
Elective                    3
CCJ Elective               3
CCJ Elective               3

Senior Year

Fall                      15 hrs  Spring                        9/15 hrs
CCJ Elective               3
CCJ Elective               3
Supporting Elective        3
Elective                    3
Elective                    3
Elective                    3

UCF Degree Programs

123
DIGITAL MEDIA (B.A., B.S.)
College of Arts and Sciences
School of Film and Digital Media
http://www.creat.cas.ucf.edu
E-mail: digitalmedia@creat.cas.ucf.edu

Director: Sterling Van Wagenen

The UCF Digital Media Program allows students to integrate the multiple disciplines of art, literature, and technology. It is designed to:
- Provide a solid foundation in techniques and theory in one focused area of competence.
- Provide a broad understanding of related disciplines including arts, humanities, and technology.
- Provide extended experience in working in multidisciplinary teams on realistic problems.

The program is administered through the College of Arts and Sciences, but draws on courses throughout the university. It recognizes that there are many combinations of courses which meet the needs of individual students. One concentration area (Computer Animation, Digital Music, Graphic Design, Internet and Interactive Systems, Writing for Media) lead to a Bachelor of Arts degree.

Note: Although the Program maintains a small computer lab for student use, Digital Media majors must have continual access to a laptop computer. Contact Digital Media or see the website (www.creat.dm.ucf.edu) for the minimum hardware and software specifications.

Admission Requirements: none

Admission to IDS 4700C (Digital Media Production II) requires admission into one of the Advanced Specializations (section 4).

Degree Requirements:
- UCF 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.
- 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.
- Students should see an advisor prior to selecting this major, and at least annually thereafter.

1. UCF General Education Program (36 hrs)
- A. Communication Foundations 9 hrs
- B. Cultural and Historical Foundations 9 hrs
  - Take one of the listed two semester courses, and if specializing in Computer Animation or Digital Design, select ARH 2050.
  - If specializing in Digital Music, select MUL 2010.
- Otherwise
  - Select ARH 2050 or MUL 2010
- C. Mathematical Foundations 6 hrs
  - If specializing in Computing for Media
    - Select MAC 2311 or MAC 2311L Calculus with Analytic Geometry I and
    - Select COP 3502C Computer Science I
  - If specializing in Graphic Design or Animation
    - Select MAC 1141 College Trigonometry
- Otherwise
  - Select MAC 1105 College Algebra and
  - Select COP 2500C Concepts in Computer Science

Note: These two courses fulfill the math GEP.

D. Social Foundations 6 hrs

E. Science Foundations 6 hrs

2. Digital Media Core (18 hrs)
- IDS 3707* Digital Media Principles 3 hrs
- ART 2920 Art as Interface 3 hrs
- ENC 4415 Digital Rhetoric & Modern Dialectic 3 hrs
- PHI 3626 Ethics in Sci & Technol 3 hrs
- IDS 3683 Digital Media Production I 3 hrs
- MUC 3111* MIDI Sequencing 3 hrs
- MUS 2360C Music Technology 3 hrs
*See transfer notes for possible substitutions.

3. Specialization. Choose one of the following 6 areas:

Note that each specialization has an audition, examination, or portfolio requirement which must be met before admission into the Advanced Concentration.

3A: Common Program Prerequisites - Graphic Design (39 hrs)

IDS 3707* Digital Media Principles 3 hrs
MAC 1105 College Algebra GEP
ART 2600C Introduction to Computer Graphics 3 hrs
ARH 2050 Art History I GEP
ARH 2051 Art History II 3 hrs
ART 2201C Design Fundamentals I 3 hrs
ART 2203C Design Fundamentals II 3 hrs
ART 2300C Drawing Fundamentals I 3 hrs
ART 2301C Drawing Fundamentals II 3 hrs
COP 3502C Concepts in Computer Science GEP
*MUS 2550C* Intro to Music Technology 3 hrs

*See transfer notes for possible substitutions.

3B: Graphic Design-Basic Concentration: None

3C: Graphic Design-Advanced Concentration:

Note: All Junior level students in this program must satisfactorily complete a mandatory portfolio review by the Art Department before enrolling in upper division courses. They must also have maintained at least a 2.5 overall average GPA in all studio classes and at least a 2.5 GPA in ART 2201C and ART 2203C prior to their portfolio review.

GRA 3100C Intermediate Graphic Design I 3 hrs
GRA 3112C Intermediate Graphic Design II 3 hrs
GRA 2140C Computer Graphic Design 3 hrs
GRA 4195C Advanced Graphic Design 3 hrs
GRA 4196C Special Problems-Graphic Design 3 hrs
(Repeat for credit)

3D: Computer Animation (B.A.): (42 hrs)

3A: Computer Animation - Common Program Prerequisites:

IDS 3707* Digital Media Principles 3 hrs
MAC 1105 College Algebra GEP
ART 2600C Introduction to Computer Graphics 3 hrs
ARH 2050 Art History GEP
ARH 2051 Art History II 3 hrs
ART 2201C Design Fundamentals I 3 hrs
ART 2203C Design Fundamentals II 3 hrs
ART 2300C Drawing Fundamentals I 3 hrs
ART 2301C Drawing Fundamentals II 3 hrs
COP 3502C Concepts in Computer Science GEP
MUS 2550C* Intro to Music Technology 3 hrs
*See transfer notes for possible substitutions.

3B: Computer Animation - Basic Concentration:

FIL 3286C Introduction to Animation 3 hrs
FIL 3287C Intermediate Animation 3 hrs
FIL 4286C Advanced Animation 3 hrs
FIL 4289C Animation Workshop 3 hrs
ART 3643C Digital Effects and Compositing 3 hrs

3C: Computer Animation - Advanced Concentration:

Note: All junior level students in this program must satisfactorily complete a mandatory portfolio review by the Art Department before enrolling in upper division courses. They must also have maintained at least a 2.5 overall average GPA in all studio classes and at least a 2.5 GPA in ART 2201C and ART 2203C prior to their portfolio review.

FIL 3286C Introduction to Animation 3 hrs
FIL 3287C Intermediate Animation 3 hrs
FIL 4286C Advanced Animation 3 hrs
FIL 4289C Animation Workshop 3 hrs
ART 3643C Digital Effects and Compositing 3 hrs

3D: Computing for Media (B.S.): (46 hrs)

3A: Computing for Media - Common Program Prerequisites:

ARH 2050 Art History GEP
MAC 2311 Calculus I GEP
MAC 2312 Calculus II 3 hrs
COP 3233 C Language 3 hrs
IDS 3782CC Assembling Media or
IDS 3782CC Assembling Media 3 hrs

3B: Computing for Media - Basic Concentration:

COP 3230 Object Oriented Programming 3 hrs
COP 3502C Computer Science I GEP
MAC 1114 College Trigonometry GEP
ART 2600C Introduction to Computer Art 3 hrs
PHY 2048E & L Physics For Engineers & Scientists I plus lab 4 hrs

3C: Computing for Media - Advanced Concentration:

Note: COT 3960 is required for these courses.

COP 3500C Computer Science III 3 hrs
a) Select nine hours from the following:

Select one of the following 9 hour options (a, b, or c):

- FIL 3625 Interactive Entertainment 3 hrs
- IDS 4688C Media for e-Commerce I 3 hrs
- COP 2500C Concepts in Computer Science GEP

b) Select nine hours from any other single Digital Media Specializations Basic Concentration Group.

- ART 2201C Design Fundamentals - Two Dimensional
- ART 2202C Design Fundamentals - Three Dimensional
- IDS 3701C Internet Software Design

Select one 3 hour course:

- RTY 2320C Prod of Interact Media
- IDS 3782C Assembling Digital Media

Writing for Media (B.A.):

(33 hrs)

3A: Writing for Media - Common Program Prerequisites:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2600C</td>
<td>Introduction to Computer Art</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>GEP</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Composition II</td>
<td>GEP</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>GEP</td>
</tr>
<tr>
<td>COP 2500C</td>
<td>Concepts in Computer Science</td>
<td>GEP</td>
</tr>
</tbody>
</table>

Select one course:

- ARH 2050  | Art History I                                    | GEP   |
- ARH 2051  | Art History II                                   | GEP   |
- MUL 2010  | Enjoyment of Music                               |       |

3B: Writing for Media - Basic Concentration:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 4215</td>
<td>Visual Elements in Documentation</td>
<td>3</td>
</tr>
<tr>
<td>CRW 3410</td>
<td>Writing Scripts</td>
<td>3</td>
</tr>
<tr>
<td>ENG 3014</td>
<td>Theories &amp; Tech. of Lit. Study</td>
<td>3</td>
</tr>
<tr>
<td>ENC 3211</td>
<td>Theory &amp; PracticeTech Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENC 3311</td>
<td>Advanced Expository Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

3C: Writing for Media - Advanced Concentration:

Note: Portfolio review required for these courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 4114</td>
<td>Literature and Film</td>
<td>3</td>
</tr>
<tr>
<td>ENC 4215</td>
<td>Techniques of Tech. Publication</td>
<td>3</td>
</tr>
<tr>
<td>ENC 4312</td>
<td>Theory &amp; Prac Persuasive Writing</td>
<td>3</td>
</tr>
<tr>
<td>CRW 3211</td>
<td>Creative Nonfiction Writing</td>
<td>3</td>
</tr>
<tr>
<td>ENC 3310</td>
<td>Magazine Writing</td>
<td>3</td>
</tr>
</tbody>
</table>

Digital Music (B.A.):

(37 hrs)

3A: Digital Music - Common Program Prerequisites:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ART 2100C</td>
<td>Intro to Computer Art</td>
<td>3</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>GEP</td>
</tr>
<tr>
<td>MUL 2010</td>
<td>Enjoyment of Music</td>
<td>GEP</td>
</tr>
<tr>
<td>MUT 1111</td>
<td>Music Theory I A</td>
<td>2</td>
</tr>
<tr>
<td>MUT 1112</td>
<td>Music Theory I B</td>
<td>2</td>
</tr>
<tr>
<td>MUT 2118</td>
<td>Music Theory IIA</td>
<td>2</td>
</tr>
<tr>
<td>MUT 2117</td>
<td>Music Theory IIB</td>
<td>2</td>
</tr>
<tr>
<td>MUT 1241</td>
<td>Ear Training/Sight Singing IA</td>
<td>1</td>
</tr>
<tr>
<td>MUT 1242</td>
<td>Ear Training/ Sight Singing IB</td>
<td>1</td>
</tr>
<tr>
<td>COP 2500C</td>
<td>Concepts in Computer Science</td>
<td>GEP</td>
</tr>
</tbody>
</table>

3B: Digital Music - Basic Concentration:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUS 1010</td>
<td>Music Forum (four semesters)</td>
<td>0</td>
</tr>
<tr>
<td>MUN XXXX</td>
<td>Ensembles (four semesters)</td>
<td>4</td>
</tr>
<tr>
<td>MVB/MVM/MVP/MVS/ MVM/VWS/</td>
<td>Performance (four semesters)</td>
<td>8</td>
</tr>
</tbody>
</table>

3C: Digital Music - Advanced Concentration:

Note: An audition is required for these courses.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUC 4441</td>
<td>MIDI Sequencing II</td>
<td>3</td>
</tr>
<tr>
<td>FIL 4212</td>
<td>Sound Design</td>
<td>3</td>
</tr>
<tr>
<td>MUS 4645C</td>
<td>Music Post Production Techniques</td>
<td>3</td>
</tr>
<tr>
<td>MUC 4XXX</td>
<td>Composing for Digital Music</td>
<td>3</td>
</tr>
</tbody>
</table>

Internet and Interactive Systems (B.A.):

(45 hrs)

3A: Internet - Common Program Prerequisites:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>3</td>
</tr>
<tr>
<td>ART 2600C</td>
<td>Introduction to Computer Art</td>
<td>3</td>
</tr>
<tr>
<td>ART 2201C</td>
<td>Design Fundamentals - Two Dimension</td>
<td>3</td>
</tr>
<tr>
<td>IDS 3782C*</td>
<td>Assembling Media</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one course:

- ARH 2050  | The History of Art I                             |       |
- ARH 2051  | The History of Art II                            |       |
- MUL 2010  | Enjoyment of Music                               |       |

* See transfer notes for possible substitutes.

3B: Internet - Basic Concentration:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 2500C</td>
<td>Concepts in Computer Science</td>
<td>GEP</td>
</tr>
<tr>
<td>IDS 4688C</td>
<td>Media for e-Commerce I</td>
<td>3</td>
</tr>
<tr>
<td>FIL 3625</td>
<td>Interactive Entertainment</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one of the following 9 hour options (a, b, or c):

a) Select nine hours from the following:

- ART 2300C Drawing Fundamentals I
- ART 2301C Drawing Fundamentals II

4. Capstone Experience

12 hrs

Admission to IDS 4700C (Digital Media Production II) requires students to be admitted into the Advanced Concentration within their Specialization.

- IDS 3648L Digital Media Service I 1 hr
- IDS 4685L Digital Media Service II 1 hr
- IDS 4686L Digital Media Service III 1 hr
- IDS 4700C Digital Media Production II 3 hrs
- IDS 4682L Digital Media Project I 3 hrs
- IDS 4703 Digital Media Project II 3 hrs

The capstone experience is a year long Senior Project, supervised by a multidisciplinary team of faculty. The student creates an innovative multimedia project and exhibits it in a public forum.

5. Foreign Language Requirements

0-11 hrs

BA requirements:

Admission: Met by graduation requirement.

Graduation: Writing for Media: Three semesters or equivalent proficiency. One semester may be replaced by a cultural or multicultural course. All others: two semesters or equivalent proficiency.

BS Requirements:

Admission: Two years of one foreign language in high school, or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: None

6. Electives

(variable)

Electives will consist of 3000 and 4000-level courses as approved by the student's advisor.

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

Related Programs: Art, Animation, Computer Science, English, Film, Music

Related Minors: Art-Studio, Computer Information Technology, Computer Science, Digital Media, English-Technical Writing, Film, Music

Transfer Notes:
**UCF Degree Programs**

- 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.

Acceptable substitutes for Common Program Prerequisites if taken prior to transferring to UCF:

- COP 3502C may use any COP course. However, COP 3502C is a prerequisite for all Computer Science courses and still must be taken.
- MUS 2360C may use MUT 1004 (Fundamentals of Music)
- IDS 3707 (Digital Media Principles) may use IDS 2680 (Introduction to Digital Media)
- IDS 3782C (Assembling Media) use FIL 2201 or RTV 3280

**EARNING CHILDREN EDUCATION**

(PRE-KINDERGARTEN THROUGH GRADE 3) (B.S.)

**College of Education**

**Department of Child, Family, and Community Sciences**

**Ed Building, Second floor**, 407-823-2401

Chair: Wilfred Wienke, 407-823-2401

E-mail: wwenke@mail.ucf.edu

Program Coordinator: Lynn Hartle, 407-823-4163

E-mail: lhartle@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 four parts of the CLAST examination (no alternatives are accepted).
- Complete common program prerequisite courses.
- Meet any special departmental requirements.

**Degree Requirements:**

- Students should see an advisor.
- 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
      - ENC 1101 Composition I
      - ENC 1102 Composition II
      - SPC 1600 Fundamentals of Oral Communication
      - ENC 1101 Introduction to Philosophy
      - STA 1060C Basic Statistics using MS Excel GEP
      - STA 2014C Principles of Statistics
      - MGF 1106 Finite Mathematics
      - Note: See laboratory component under Section 2.

   B. Cultural-Historical Foundations* (9 hrs)
      - AMH 2020 U.S. History 1877-Present
      - AMH 2010 U.S. History 1492-1877
      - PH 2010 Introduction to Philosophy
      - Select one:
        - STA 1060C Basic Statistics using MS Excel or
        - STA 2014C Principles of Statistics
        - MGF 1106 Finite Mathematics
        - STA 1060C
        - STA 2014C

   C. Mathematical Foundations* (6 hrs)
      - MGF 1106 Finite Mathematics

   D. Social Foundations (6 hrs)
      - POS 2041 American National Government
      - PSY 2012 General Psychology
      - Select one:
        - PH 2010 Introduction to Philosophy
        - STA 1060C

   E. Science Foundations (6 hrs)
      - Select one:
        - ANT 2511 The Human Species or
        - BSC 1005 Biological Principles

   Note: See laboratory component under Section 2.

2. **Common Program Prerequisites** (25 hrs)

   A. Communications
      - ENC 1101 Composition I GEP
      - ENC 1102 Composition II GEP
      - SPC 1600 Fundamentals of Oral Communication GEP
      - PH 2010 Introduction to Philosophy
      - ARH 2050 The History of Art I or
      - ARH 2061 The History of Art II or
      - MUL 2101 Enjoyment of Music or
      - THE 2000 Theatre Survey or
      - FIL 1001 Cinema Survey

   B. Humanities
      - ENC 1101 Composition I
      - ENC 1102 Composition II
      - SPC 1600 Fundamentals of Oral Communication
      - PH 2010 Introduction to Philosophy
      - Select one:
        - ARH 2050 The History of Art I or
        - ARH 2061 The History of Art II or
        - MUL 2101 Enjoyment of Music or
        - THE 2000 Theatre Survey or
        - FIL 1001 Cinema Survey

3. **Early Childhood Education**

   **Preprofessional Requirements**

   Offered summer semesters. Must be taken prior to Internship II

   - ARE 2011 Art & Creativity in Early Childhood Education
   - LAE 3414 Children’s Literature
   - EDC 3120 Observing Child Growth & Development
   - EDC 3120LA Child’s Literature
   - EDC 3120EE Issues in Language Acquisition
   - ESL 3268 Play Development
   - ESL 4080 Theory and Practice of Teaching ESL
   - EDC 3120 Students in Schools

4. **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
   - EDF 3120 Observing Child Growth & Development
   - EAE 3414 Children's Literature
   - EDC 3120LA Child’s Literature
   - EDC 3120EE Issues in Language Acquisition
   - ESL 3268 Play Development
   - ESL 4080 Theory and Practice of Teaching ESL
   - EDC 3120 Students in Schools

   **Semester II** (15 hrs)
   - EDF 3307 Learning Environments & Guidance
   - EEX 3450 Young Children Special Needs
   - EDC 3120LA Child’s Literature
   - EDC 3120EE Issues in Language Acquisition
   - RED 3310 Emergent Literacy
   - RED 3012 Basic Foundations of Reading

   **Summer** (6 hrs)
   - EEX 4751 Parent Involvement
   - EDC 4731 Health, Safety, & Nutrition

   **Semester III** (12 hrs)
   - RED 4311 Development of Literacy
   - EDC 3120LA Child’s Literature
   - EDC 3120EE Issues in Language Acquisition
   - EDC 3120LA Child’s Literature
   - EDC 3120EE Issues in Language Acquisition
   - RED 3310 Emergent Literacy
   - RED 3012 Basic Foundations of Reading

   **Semester IV** (12 hrs)
   - EDC 4943 Student Teaching (Internship II)

5. **Internships**

   Internships comprise a critical part of the Early Childhood Education program. Therefore, it is crucial that the students are aware of the...
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.
- 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 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)

9. Total Semester Hours Required 127 hours

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.

ECONOMICS (B.A.)
College of Arts and Sciences
Political Science Department, CNH 415, 407-823-2608
http://pegasus.cc.ucf.edu/~politics
E-mail: politics@ucf.edu

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
- Students who change degree programs and select this major must adopt the most current catalog
- Co-op or internship credit cannot be used in the 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 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
Select MAC 1105 College Algebra 3 hrs
Select STA 201LC Principles of Statistics 3 hrs
D. Social Foundations
Select ECO 2013 Macroeconomics 3 hrs

2. Common Program Prerequisites (3 hrs)
ECO 203* Macroeconomics GEP
ECO 202* Microeconomics 3 hrs
*See Transfer Notes for possible substitutes

3. Core requirements (15 hrs)
ECO 3101 Intermediate Price Theory 3 hrs
ECO 3203 Aggrer Eco Conditions Anal 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. Upper Division Restricted Electives 18 hrs
International option-Select six courses:
ECO 3703 International Economics
ECO 3723 International Commercial Policy
ECO 4701 The Global Economy
ECO 4003 Comparative Economic Systems
ECS 4013 Economic Development
ECS 4231* The Japanese Economy
ECS 4303 Economics of European Integration
ECS 4204 Economics of the Pacific Rim
ECS 4210 The Chinese Economy
ECS 4442H Economic Development of Mexico and Central America
ECO 4941* Economics Internship
* Requires departmental approval

Standard option-Select six courses:
ECO 3223 Money and Banking
ECO 3622 American Economic History
ECO 3703 International Economics
ECO 3723 International Commercial Policy
ECO 4303 History of Economic Thought
ECO 4412 Economic Statistics and Econometrics
ECO 4504 Economic of the Public Sector
ECP 3203 Contemp Labor Economics
ECP 3433 Transportation Economics
ECP 4403 Business, Govt & Indust Organization
ECP 4603 Urban and Regional Eco Problems
ECP 4703 Managerial Economics
ECS 4003 Comparative Economic Systems
ECS 4013 Economic Development
ECS 4231* The Japanese Economy
ECS 4303 Economics of European Integration
ECS 4204 Economics of the Pacific Rim
ECS 4210 The Chinese Economy
ECS 4442H Economic Development of Mexico and Central America
ECO 4701 The Global Economy
ECS 4941* Economics Internship
* Requires departmental approval

ECONOMICS (B.A.) - Multi-disciplinary Option:
Select 4 courses from the standard list above
Select 2 courses from one of the following emphasis*
- Political Economy*
- Area Studies*
- International Business*
- Human Resources*
- Legal Studies*
- Financial Economics*
- Quantitative methods*
* Requires Program Advisor's approval

5. Required Minor (18 hrs minimum)
Completion of a minor in one of the following:
Digital Media, Computer Science, History, Mathematics, Statistics, the Social and Behavioral Sciences, or Technical Writing.

6. Departmental Exit Requirements
- Maintain a minimum GPA of 2.0 in required courses
- Computer Competency met by Research Methods course

7. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement
Graduation: One year or equivalent proficiency exam.

8. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.
Only grades of "C" (2.0) or higher transfer into the program. After transferring to UCF, students who have completed MAC2233 and STA2023 will be waived.

ECO 2023 Microeconomics  
ECO 2013 Macroeconomics  
ACG 2071 Principles of Managerial Accounting  
ACG 2021 Principles of Financial Accounting

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  
ECO 3100C 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. Common Body of Knowledge

First Semester in the College of Business Administration:

GEB 3031 Cornerstone  
GEB 3356 Introduction to International Business  
First or subsequent semesters depending on major:

BUL 3130 Legal & Ethical Environ. 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 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 common program prerequisites class.

5. Required Major Courses

ECO 3101 Intermediate Price Theory  
ECO 3203 Aggregate Econ Conditions Analysis  
ECO 4451 Research Methods in Economics

6. Upper Division Restricted Electives

All economics majors will be required to take six (6) level economics courses other than the three required above.

A. Standard Option - Select any six (6) 3000-4000 level economics courses from the following list:

- ECO 3703 International Economics  
- ECO 3723 International Commercial Policy  
- ECO 4701 The Global Economy  
- ECO 4003 Comparative Economic Systems  
- ECO 4013 Economic Development  
- ECO 4231 The Japanese Economy  
- ECO 4204 The Economies of the Pacific Rim  
- ECO 4210 The Chinese Economy  
- ECO 4303 Economics of European Integration  
- ECS 4427 Economic Development of Mexico and Central America  
- ECS 4420 The Economies of the Pacific Rim  
- ECS 4231 The Japanese Economy  
- ECS 4210 The Chinese Economy  
- ECS 4303 Economics of European Integration  
- ECS 4427 Economic Development of Mexico and Central America

* Required special approval

C. Multi-Disciplinary Option - Select any four (4) economic courses from the following list:

- ECS 4442H Economic Development of Mexico and Central America  
- ECO 3703 International Economics  
- ECO 3723 International Commercial Policy  
- ECO 4701 The Global Economy  
- ECO 4003 Comparative Economic Systems  
- ECO 4013 Economic Development  
- ECO 4231 The Japanese Economy  
- ECO 4204 The Economies of the Pacific Rim  
- ECO 4210 The Chinese Economy  
- ECO 4303 Economics of European Integration  
- ECS 4427 Economic Development of Mexico and Central America

7. Economics Track: International Business

Required Courses*  
ECO 3101 Intermediate Price Theory  
ECO 3203 Aggregate Economic Conditions Analysis  
ECO 4451 Research Methods in Economics

Required International Courses**  
AGC 4525 International Accounting  
ECO 4701 The Global Economy  
FIN 4604 International Financial Management  
MAN 4600 International Management  
MAR 4156 International Marketing

Electives***  
ECS 4231 Japanese Prosperity  
ECS 4204 Economies of the Pacific Rim  
ECS 4003 Comparative Economic Systems  
ECO 3703 International Economics  
ECO 4013 Economic Development  
ECO 3723 International Commercial Policy  
ECO 4303 Economics of European Integration  
ECS 4210 Chinese Economy  
ECS 4427 Economic Development of Mexico and Central America

* Required for BBA-ECO IB track
** Required international + electives must add up to 18 hours
*** IB 2000 may be used for up to 6 credit hours. Other approved internships or independent studies may be used for up to 3 credit hours.

Note: the College of Business Administration plans to discontinue this track within two years. Potential transfer students are advised to check with the College.
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 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 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 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 better 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 - Economics

Freshman
Fall 15 hrs Spring 15 hrs
ENC 1101* 3 ENC 2102* 3
Cult-Hist I* 3 Cult-Hist II* 3
SPC 1600 3 ***Elective 3
***Elective 3***Elective 3
***Elective 3***Elective 3
Must complete 9 hours in a summer semester

Sophomore
Fall 15 hrs Spring 15 hrs
ECO 2023* 3 ECO 2013* 3
AGC 2021* 3 AGC 2071* 3
Science 3
Psy/Soc/Ant 3***Elective 3
***Elective 3***Elective 3
* "C" (2.0) or better grade required in each class

Junior
Fall 15 hrs Spring 15 hrs
GEB 3031 3 ECO 3411 3
GEB 3356 3 ECO 3401 3
MAR 3023 3 ECO 3401 3

Senior
Fall 15 hrs Spring 15 hrs
ECO Elective 3 FIN 3403 3
ECO Elective 3

ECO 3101 3
ECO Elective 3
MAN 4720 3
***Elective 3
***Elective 3
***Elective 3

***General electives as required to reach 120 semester hours to include at least 60 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 60 hours outside Business Administration.

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
K. B. Sundaram, E-mail: sundaram@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; 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 9 hrs
1. Take ENC 1101
2. Take ENC 1102
3. Prefer SPC 1016
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 7 hrs
1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs).
Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
2. Take STA 3022 (3 hrs).
Note: Calculus II is the prerequisite for this course.
D. Social Foundations 6 hrs
1. Take ECO 2023 or ECO 2024.
E. Science Foundations 7 hrs
1. Take PHY 2048/48L.
2. Prefer either GEO 1200 or GEO 2370.

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must contin-
### UCF Degree Programs

ue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. **Note:** MAC 2281 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>CHS 1440</td>
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<tr>
<td>MAC 2281</td>
<td>Calculus for Scientists &amp; Engineers I</td>
<td></td>
</tr>
<tr>
<td>MAC 2282</td>
<td>Calculus for Scientists &amp; Engineers II</td>
<td>4</td>
</tr>
<tr>
<td>MAC 2283</td>
<td>Calculus for Scientists &amp; Engineers III</td>
<td>4</td>
</tr>
<tr>
<td>MAP 2302</td>
<td>Differential Equations</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2048/48L</td>
<td>Physics for Engineers &amp; Scientists I</td>
<td></td>
</tr>
<tr>
<td>PHY 2049/49L</td>
<td>Physics for Engineers &amp; Scientists II</td>
<td>4</td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td></td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Composition II</td>
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<td>Social Science Courses</td>
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<tr>
<td>Humanities or Social Sciences</td>
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</tr>
</tbody>
</table>

### 3. Courses Required for the Major (55 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>EGN 1006C</td>
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<tr>
<td>EGN 1007C</td>
<td>Engineering Concepts &amp; Methods</td>
<td>1</td>
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<tr>
<td>EGN 3310</td>
<td>Engineering Analysis - Statics</td>
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<td>EGN 3321</td>
<td>Engineering Analysis - Dynamics or</td>
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<td>EGN 3358</td>
<td>Thermo-Fluids-Heat Transfer</td>
<td>3</td>
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<tr>
<td>EGN 3420</td>
<td>Engineering Analysis</td>
<td></td>
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<tr>
<td>STA 3032</td>
<td>Probability &amp; Statistics for Engineers</td>
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<td>Physics for Engineers &amp; Scientists III</td>
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<td>EEL 3004</td>
<td>Electrical Networks</td>
<td>3</td>
</tr>
<tr>
<td>EEL 3123C</td>
<td>Networks and Systems</td>
<td>4</td>
</tr>
<tr>
<td>EEL 3306</td>
<td>Semiconductor Devices I</td>
<td>3</td>
</tr>
<tr>
<td>EEL 3307C</td>
<td>Electronics I</td>
<td>4</td>
</tr>
<tr>
<td>EEL 3342C</td>
<td>Intro to Digital Circuits &amp; Systems</td>
<td>3</td>
</tr>
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<td>EEL 3370</td>
<td>Electromagnetic Fields</td>
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<tr>
<td>EEL 3552C</td>
<td>Signal Analysis and Communications</td>
<td>4</td>
</tr>
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<td>EEL 3657</td>
<td>Linear Control Systems</td>
<td>3</td>
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<tr>
<td>EEL 3801C</td>
<td>Intro to Computer Engineering</td>
<td>3</td>
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<tr>
<td>EEL 4309C</td>
<td>Electronics II</td>
<td>4</td>
</tr>
<tr>
<td>EEL 4750</td>
<td>Digital Signal Processing Fund.</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4767C</td>
<td>Computer System Design I</td>
<td>4</td>
</tr>
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### 4. Approved Technical Electives (10 hrs)

Technical electives are available in the BSEE 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>EEL 4914</td>
<td>Senior Design I</td>
<td>3</td>
</tr>
<tr>
<td>EEL 4915L</td>
<td>Senior Design II</td>
<td>3</td>
</tr>
</tbody>
</table>

### 5. Departmental Graduation Requirements (6 hrs)

- EEL 4914: Senior Design I
- EEL 4915L: Senior Design II
- CEECS encourages all engineering students to take the Engineering Intern 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 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.

**Total Semester Hours Required:** 128 hrs

**Related Programs:** Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

**Related Minors:** None

**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**

<table>
<thead>
<tr>
<th>Term</th>
<th>Fall</th>
<th>Spring</th>
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<td>FIRST YEAR</td>
<td>Fall</td>
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</tr>
<tr>
<td>EEL 3306</td>
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<tr>
<td>MAC 2282</td>
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<td>3 hrs</td>
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<td>MAP 2302</td>
<td>3 hrs</td>
<td>3 hrs</td>
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<tr>
<td>PHY 2049/48L</td>
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<td>3 hrs</td>
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<tr>
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**SECOND YEAR**

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<td>3 hrs</td>
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<tr>
<td>PHY 2049/48L</td>
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<tr>
<td>ENC 1101</td>
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<tr>
<td>ENC 1102</td>
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**THIRD YEAR**

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<tr>
<td>EEL 4915L</td>
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<tr>
<td>*ECO 2013 Macroeconomics or ECO 2023 Microeconomics</td>
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**FOURTH YEAR**

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<tbody>
<tr>
<td>EEL 3306</td>
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<tr>
<td>MAC 2282</td>
<td>4 hrs</td>
<td>3 hrs</td>
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<td>MAP 2302</td>
<td>3 hrs</td>
<td>3 hrs</td>
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<tr>
<td>EEL 4309C</td>
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<td>EEL 4914</td>
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<td>*EEL 4750 Sig Anal&amp;Comm</td>
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</tr>
<tr>
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**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.

**Integrated BS/MS Degree Program**

The Electrical Engineering program offers the Integrated BS/MS program to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.
Prerequisites

Systems should complete the GEP and the Common Program to UCF from within the Florida State University/Community College.

D. Social Foundations 6 hrs

C. Mathematical Foundations 7 hrs

B. Cultural and Historical Foundations 9 hrs

A. 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. Take ENC 1101
2. Take ENC 1102
3. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs

1. Cultural and Historical Foundations 9 hrs

A. Communication Foundations 9 hrs

1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs).

Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.

2. Take STA 3023 (3 hrs).

Note: Calculus II is the prerequisite for this course.

D. Social Foundations 6 hrs

1. Take ECO 2013 or ECO 2023.


E. Science Foundations 7 hrs

1. Take PHY 2048 &L, the Humanities courses, and the Social Science courses.

2. Prefer either GEO 1200 or GEO 2370.

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. Note: MAC 2281 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 Major (55 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
EGN 2210 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
STG 3032 Probability & Statistics for Engineers GEP
PHY 3101 Physics for Engineers & Scientists III 3 hrs
EEL 3004 Electrical Networks 3 hrs
EEL 3122C Networks and Systems 4 hrs
EEL 3305 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 Signal Analysis and Communications 4 hrs
EEL 3657 Linear Control Systems 3 hrs
EEL 3801C Intro to Computer Engineering 3 hrs
EEL 4306C Electronics II 4 hrs
EEL 4750 Digital Signal Processing Fund 3 hrs
EEL 4767C Computer System Design I 4 hrs

4. Approved Technical Electives (10 hrs)

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 of the following technical electives in addition to the required microelectronics courses listed in

3. above.

EEL 4314 Device Electronics for Integ Circuits 3 hrs
EEL 5357 CMOS Analog and Digital IC Design 3 hrs
EEL 5353 Semiconductor Dev Modeling & Sim 3 hrs
EEL 5355C Fabrication of Solid State Devices 4 hrs

5. Departmental Graduation Requirements (6 hrs)

EEL 4914 Senior Design I 3 hrs
EEL 4915L Senior Design II 3 hrs

CECE encourages all engineering students to take the Engineering Intern 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. 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.

Total Semester Hours Required: 128 hours

Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

Related Minors: none

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 engi-
neering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Electrical Engineering - Microelectronics Concentration 128 semester hours required

FIRST YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>12 hr</td>
<td>13 hrs</td>
</tr>
<tr>
<td>ENG 1006C Intro to Eng</td>
<td>3</td>
<td>EGN 1007C Eng Conc &amp; Meth</td>
</tr>
<tr>
<td>ENC 1101 English Comp I</td>
<td>3</td>
<td>ENC 1102 English Comp II</td>
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<td>CHS 1440 Intro to Eng</td>
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<td>SPC 1016 Tech Presentations</td>
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<tr>
<td>MAC 2281 Calc Sci &amp; Eng I</td>
<td>4</td>
<td>MAC 2282 Calc Sci &amp; Eng II</td>
</tr>
<tr>
<td>PHY 2049L Phys Eng I wlab</td>
<td>4</td>
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</table>

Summer 11 hrs 1,2,3

- *Cult & Hist Foundations 1a | 3 |
- *MAC 2283 Calc Sci & Eng III | 4 |
- *PHY 2049 Phys for Engr/Sci I | 3 |
- *PHY 2049L Phys Lab Engr/Sci II | 1 |

SECOND YEAR

<table>
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<tr>
<th>Semester</th>
<th>Fall</th>
<th>Spring</th>
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<tr>
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<tr>
<td>*MAP 2302 Diff Equations</td>
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<td>*Cult &amp; Hist Foundations 2</td>
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<tr>
<td>*PHY 3101 Phys Engr/Sci III</td>
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<td>*Science Foundations 2</td>
</tr>
<tr>
<td>*Social Foundations 1</td>
<td>3</td>
<td>EGN 3420 Engineering Anal 2</td>
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<tr>
<td>Summer</td>
<td>6 hrs</td>
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</tr>
<tr>
<td>*Cult &amp; Hist Foundations 1b</td>
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<td>*ECO 2013 Microeconomics</td>
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THIRD YEAR

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<th>Semester</th>
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<tbody>
<tr>
<td>Fall</td>
<td>14 hrs</td>
<td>13 hrs</td>
</tr>
<tr>
<td>EEL 3306 Semicond Devices I</td>
<td>3</td>
<td>EEL 3307C Electronics I</td>
</tr>
<tr>
<td>STA 3032 Prob &amp; Stats Engrs</td>
<td>3</td>
<td>EEL 3567 Linear Control Sys</td>
</tr>
<tr>
<td>EEL 4767C Ctrl Sys Design I</td>
<td>4</td>
<td>EEL 4750 Dig Signal Proc Fund</td>
</tr>
<tr>
<td>EEL 3124C Networks and Systems</td>
<td>4</td>
<td>EGN 3321 Eng Anal-Dynamics 3</td>
</tr>
<tr>
<td>or EGN 3358 Ther-Flds-Ht Transfer</td>
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</table>

FOURTH YEAR

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall</th>
<th>Spring</th>
</tr>
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<tbody>
<tr>
<td>Fall</td>
<td>14 hrs</td>
<td>12/13 hrs</td>
</tr>
<tr>
<td>EEL 3552C Sig AnalComm</td>
<td>4</td>
<td>EEL 4514 Dev Elec Int Circ</td>
</tr>
<tr>
<td>EEL 3470 Electromagnetic Flds</td>
<td>3</td>
<td>EEL 5357 CMOS IC Design</td>
</tr>
<tr>
<td>EEL 4309C Electronics II</td>
<td>4</td>
<td>EEL 4915L Senior Design II</td>
</tr>
<tr>
<td>or EEL 4914 Senior Design I</td>
<td>3</td>
<td>EEL 5353 Semicond Dev Sim</td>
</tr>
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</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 UCF GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred). *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.

Integrated BS/MS Degree Program

The Electrical Engineering program offers the Integrated BS/MS program to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

Electrical Engineering - WIRELESS COMMUNICATION CONCENTRATION (B.S.E.E.)

College of Engineering and Computer Science

K. B. Sundaram, E-mail: sundaram@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 System should complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations 9 hrs
   1. Take ENC 1101
   2. Take ENC 1102
   3. Prefer SPC 1016

B. Cultural and Historical Foundations
   7 hrs
   1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs).
      Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
      2. Take STA 3032 (3 hrs).
      Note: Calculus II is the prerequisite for this course.

C. Mathematical Foundations
   7 hrs
   1. Take MAC 2281 Calculus for Scientists and Engineers I (4 hrs).
      Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
      2. Take STA 3032 (3 hrs).

D. Science Foundations 6 hrs
   1. Take ECO 2013 or ECO 2023.

E. Science Foundations
   7 hrs
   1. Take PHY 2049L
   2. Prefer either GEO 1200 or GEO 2370.

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. Note: MAC 2281 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 (CHM 2045C/45L will substitute) 4 hrs
MAC 2281 Calculus for Scientists & Engineers I (MAC 2231 will substitute see above) GEP
MAC 2282 Calculus for Scientists & Engineers II (MAC 2232 will substitute see above) 4 hrs
MAC 2283 Calculus for Scientists & Engineers III (MAC 2233 will substitute see above) 4 hrs
MAP 2302 Differential Equations 3 hrs
PHY 2048/49L 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
Humanities or Social Sciences GEP

3. Courses Required for the Major (55 hrs)

The College of Engineering and Computer Science requires all engi-
Engineering students should meet with their faculty advisor to develop plans 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 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics or
EGN 3393C Thermo-Fluids-Heat Transfer 3 hrs
EGN 3420 Engineering Analysis 3 hrs
STA 3032 Probability & Statistics for Engineers GEP 3 hrs
PHY 3101 Physics for Engineers & Scientists III 3 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 3470 Electromagnetic Fields 3 hrs
EEL 3552C Signal Analysis and Communications 4 hrs
EEL 3657 Linear Control Systems 3 hrs
EEL 3801C 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

4. Approved Technical Electives (10 hrs)

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 wireless communication, a concentration in this area if available by taking the following technical electives in addition to the required communication courses listed in 3.

EEL 4512C Communication Systems 4 hrs
EEL 5555C RF and Microwave Communications 3 hrs
EEL 5513C Digital Signal Processing Apps or
EEL 5462C Antenna Analysis and Design 3 hrs

5. Departmental Graduation Requirements (6 hrs)

- EEL 4914 Senior Design I 3 hrs
- EEL 4915 Senior Design II 3 hrs
- CECS encourages all engineering students to take the Engineering Intern 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 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.

Total Semester Hours Required: 128 hrs

Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration).

Related Minors: none

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**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>EGN 1006C Intro to Engr</td>
<td>1</td>
</tr>
<tr>
<td>Fall</td>
<td>EGN 1007C Eng Conc &amp; Meth</td>
<td>1</td>
</tr>
<tr>
<td>Fall</td>
<td>EGN 1101 Eng Comp I</td>
<td>3</td>
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<tr>
<td>Fall</td>
<td>EGN 1102 English Comp II</td>
<td>3</td>
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<tr>
<td>Fall</td>
<td>EGN 1446 Chem for Engrs 4</td>
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<tr>
<td>Fall</td>
<td>EGN 2281 Calc Sci &amp; Eng I</td>
<td>4</td>
</tr>
<tr>
<td>Fall</td>
<td>EGN 2282 Calc Sci &amp; Eng II</td>
<td>4</td>
</tr>
<tr>
<td>Fall</td>
<td>EGN 2101 Introduction to Phys Eng</td>
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**SECOND YEAR**

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<tr>
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<td>STA 3032 Prob &amp; Stats for Engr</td>
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<tr>
<td>Fall</td>
<td>EEL 4750 Digital Signal Proc Fund</td>
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<tr>
<td>Fall</td>
<td>EEL 4767C Computer System Design</td>
<td>3</td>
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<tr>
<td>Fall</td>
<td>STA 3032 Prob &amp; Stats for Engr</td>
<td>3</td>
</tr>
<tr>
<td>Fall</td>
<td>EEL 4767C Computer System Design</td>
<td>3</td>
</tr>
<tr>
<td>Fall</td>
<td>EEL 4750 Digital Signal Proc Fund</td>
<td>3</td>
</tr>
<tr>
<td>Fall</td>
<td>EEL 4767C Computer System Design</td>
<td>3</td>
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</table>

**FOURTH YEAR**

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<tr>
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<th>Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>EEL 4512C Communication Systems</td>
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<tr>
<td>Fall</td>
<td>EEL 4512C Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>Fall</td>
<td>EEL 4512C Communication Systems</td>
<td>3</td>
</tr>
<tr>
<td>Fall</td>
<td>EEL 4512C Communication Systems</td>
<td>3</td>
</tr>
</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.

Integrated BS/MS Degree Program

The Electrical Engineering program offers the Integrated BS/MS program to students of high academic standing. This program will accept up to six graduate hours for those taking a non-thesis option. They will accept three graduate hours for students completing a thesis option degree. See advisor for appropriate substitutions.

**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: Aileza Rahrooh
407-823-4749 Fax: 407-823-4746
E-mail: rahrooh@pegasus.cc.ucf.edu

http://www.ENT.ucf.edu

Admission Requirements

- Students should check with their ENT faculty 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.

1. UCF General Education Program (38 hrs)
   - Communication Foundations (9 hrs)
     Take ENC 1101, ENC 1102
   - Cultural and Historical Foundations (9 hrs)
     1. MAC 1105
     2. CGS 1000C or STA 2014C
     3. Social Foundations (6 hrs)
   - Science Foundations
     1. BSC 1055L, BSC 1050L, or GEO 1200L (4 hrs)
     2. PHY 2053C (4 hrs)

2. Common Program Prerequisites (CPP) (6/8 hrs)
   - MAC 2253 Calculus I (3/4 hrs)
   - or MAC 2311
   - MAC 2254 Calculus II or equiv (3/4 hrs)
   - or MAC 2312
   - PHY 2053C Physics I Lab (GEP)
   - or PHY 2048/L

3. Engineering Technology Core Requirements (27/28 hrs)
   - BSC 1055L, BSC 1050L, GEO 1200L (GEP)
   - ENC 1241 Writing for the Technical Professional (3 hrs)
   - MAC 1105 College Algebra (GEP)
   - MAC 1114 College Trigonometry (3 hrs)
   - MAC 2253 Calculus I or CPP
   - MAC 2311
   - MAP 3401 Problem Analysis or (3 hrs)
   - MAC 2312 Calculus II (4 hrs)
   - PHY 2053C College Physics I (CPP)
   - PHY 2054C College Physics II (4 hrs)
   - ETG 3541 Applied Mechanics (3 hrs)
   - ETI 3651C Computer Applications (3 hrs)
   - ETI 3671 Technical Economic Analysis (2 hrs)
   - ETI 3116 Applied Engg Quality Assurance (3 hrs)
   - ETI 4448 Applied Project Management (3 hrs)

4. Technical Specialization
   - Lower Level Required and Elective Courses (18 hrs)
     - EST 3543C Programmable Logic Controllers (3 hrs)
     - CET 3233C Digital Technology (4 hrs)
     - CET 2264 System Applications in C (3 hrs)
     - CET 3086C Electricity and Electronics (4 hrs)
     - EET 1025C AC Circuits (4 hrs)
   - Upper Level Required Courses (30 hrs)
     - CET 3198C Digital Systems (3 hrs)
     - CET 3023C 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 4505 Applied Operating Systems I (3 hrs)
     - EET 3716 Network Analysis (3 hrs)
     - CET 4138 Digital Programmable Devices (3 hrs)
     - CET 4134C Microprocessor Elec II (3 hrs)
     - CET 4429 Applied Database II (3 hrs)

5. Departmental Exit Requirement (3 hrs)
   - 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 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

9. Degree Requirements
   - Students should check with their ENT faculty 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.
1. UCF General Education Program (38 hrs)
   A. Communication Foundations 9 hrs
      Select ENC 1101, 1102
      Prefer SPC 2016
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      1. MAC 1105 3 hrs
      2. CIS 1060C or STA 2014C 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations
      1. BSC 1056L, BSC 1050L, or GEO 1200L 4 hrs
      2. PHY 2053C 4 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)
   MAC 2253 or Calculus I 3/4 hrs
   MAC 22311 3/4 hrs
   MAC 2254 or Calculus II or equiv 3/4 hrs
   PHY 2053C or Physics I/Lab 3 hrs
   PHY 2046L 3 hrs

3. Engineering Technology Core Requirements (27/28 hrs)
   BSC 1056L, BSC 1050L, GEO 1200L 3 hrs
   ENC 3241 Writing for the Technical Professional 3 hrs
   MAC 22311 Calculus I 3 hrs
   MAC 2312 Calculus II 4 hrs
   PHY 2053C College Physics I 3 hrs
   PHY 2054C College Physics II 4 hrs
   ETG 3541 Applied Mathematics 3 hrs
   EET 3651C Computer Applications 3 hrs
   EET 3671 Technical Economic Analysis 2 hrs
   EET 3116 Applied Engineering Quality Assurance 3 hrs
   EET 4448 Applied Project Management 3 hrs

4. Technical Specialization (55-57 hrs)
   Lower Level Required and Elective Courses (26 hrs)
   EET 3593C Programmable Logic Controllers 3 hrs
   CET 3232C Digital Fundamentals 4 hrs
   CET 2364 System Applications in C 3 hrs
   EET 2141C Analog Devices 4 hrs
   EET 2142C Analog Circuits 4 hrs
   EET 3143C Electronic Devices and Circuits 4 hrs
   EET 1025C Electrical Circuits 4 hrs
   EET 3085C Electricity and Electronics 4 hrs

   Upper Level Required Courses (21 hrs)
   CET 3198C Digital Systems 3 hrs
   CET 3503 Microcomputer Technology 3 hrs
   CET 3144C Applied Microprocessor Technology II or
      CET 4134C Microprocessor Electronics II 3 hrs
   EET 3716 Network Analysis 3 hrs
   EET 4158C Linear Integrated Circuits 3 hrs
   EET 4549 Power Systems 3 hrs
   EET 4732C Feedback Control Systems 3 hrs

   Upper Level Technical Electives (7 hrs)
   Select 7 hours from courses listed below:
   CCEET 4138 Digital Programmable Devices 3 hrs
   CET 4333 Computer Organization & Design 3 hrs
   CET 4931 Current Topics in Tech 3 hrs
   EET 4329C Communication Systems 4 hrs
   EET 4339C Antennas and Propagation 3 hrs
   EET 4359C Digital Communications 4 hrs

5. Departmental Exit Requirement (3 hrs)
   • ETT 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 (0-4 hrs)
   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

   1. BSC 1056L, BSC 1050L, or GEO 1200L 4 hrs
   2. PHY 2053C 4 hrs

   Total Semester Hours Required: 128 hours

   Related Programs: Electrical Engineering Technology (Computer
   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) require-
     ments of that institution meet have thereby satisfied UCF GEP
     requirements.
   • Students entering a UCF undergraduate program and having a
     previously earned baccalaureate degree from an accredited insti-
     tution 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 can substitute for PHY 2053C.

   Tentative Course Schedule for the Electrical Systems
   Concentration
   The tentative course schedule listed below is a guide for those stu-
   dents who plan on completing their upper division engineering tech-
   nology degree requirements in two years. Many students choose to
   spread out these requirements over a longer period of time. All engi-
   neering students should meet with their faculty advisor to develop
   and maintain an appropriate plan of study.

   Junior Year
   Fall 13/14 hrs
   1351
   3/4 hrs
   MAC 2253 Applied Calc I 3/4 hrs
   MAP 3401 Problem Analysis or
   MAC 2312 Calculus II 3/4 hrs
   PHY 2053C College Physics I 3 hrs
   PHY 2054C College Physics II 4 hrs
   ETG 3541 Applied Mathematics 3 hrs
   EET 3651C Computer Applications 3 hrs
   EET 3671 Technical Economic Analysis 2 hrs
   EET 3116 Applied Engineering Quality Assurance 3 hrs
   EET 4448 Applied Project Management 3 hrs

   Spring 15/16 hrs
   MAC 2311 Calculus I 3 hrs
   MAC 2312 Calculus II 3 hrs
   PHY 2053C College Physics I 3 hrs
   PHY 2054C College Physics II 4 hrs
   ETG 3541 Applied Mathematics 3 hrs
   EET 3651C Computer Applications 3 hrs
   EET 3671 Technical Economic Analysis 2 hrs
   EET 3116 Applied Engineering Quality Assurance 3 hrs
   EET 4448 Applied Project Management 3 hrs

   Summer 6/7 hrs
   CET/EET Elective 3/4 hrs
   ETI 4448 Applied Project Management 3 hrs

   Senior Year
   Fall 12 hrs
   MAC 2253 Applied Calc I 3/4 hrs
   MAP 3401 Problem Analysis or
   MAC 2312 Calculus II 3/4 hrs
   MAC 2311 Calculus I 3 hrs
   CET 3116 App Eng Quality Assurance 3 hrs
   CET/EET Elective 3/4 hrs
   ETI 3116 App Eng Quality Assurance 3 hrs
   ETI 3671 Tech Economic Analysis 2 hrs
   ETI 3116 Applied Engineering Quality Assurance 3 hrs
   ETI 4448 Applied Project Management 3 hrs

   Spring 13 hrs
   EET 4549 Power Systems 3 hrs
   EET 4158C Linear Integrated Circuits 3 hrs
   EET 4359C Digital Communications 3 hrs
   EET 4732C Feedback Control Systems 3 hrs
   ETI 3116 App Eng Quality Assurance 3 hrs
   CET/EET Elective 3/4 hrs
   ETI 4448 Applied Project Management 3 hrs

   Note: For detailed information about this program, see the AS to BS
   Program section.
ELEMENTARY EDUCATION (B.S.)

College of Education
Department of Teaching and Learning Principles
ED building, second floor, 407-823-5791
http://www.edcollege.ucf.edu/

Coordinator: Cyndee Hutchinson, 407-823-3532
E-mail: hutchins@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 four parts of the CLAST examination
- Complete prerequisite courses

Degree Requirements
- Students should consult with an advisor

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. Cultural-Historical Foundations (9 hrs)
  AMH 2010 U.S. History 1492-1877
  AMH 2020 U.S. History 1877-Present
  PHI 2010 Introduction to Philosophy

C. Mathematical Foundations (6 hrs)
  MGF 1106 Finite Mathematics

Select one:
  STA 1060C Basic Statistics using MS Excel or
  STA 2014C Principles of Statistics

D. Social Foundations (6 hrs)
  POS 2041 American National Government

E. Science Foundations (6 hrs)
  PSC 1121 Physical Science

Select one:
  ANT 2511 The Human Species or
  BSC 1005 Biological Principles

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 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 or
  ARH 2051 The History of Art II or
  MUL 2010 Enjoyment of Music or
  THE 2000 Theatre Survey or
  FIL 1001 Cinema Survey

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 or
  GLY 1030 Geology and its Applications

Select one associated science lab:
  BSC 1005L Biological Principles Laboratory or
  GEO 1200L Physical Geography Laboratory or
  PSC 1121L Physical Science Laboratory

F. Education Courses (9 hrs)
  EDF 2005 Introduction to Education
  EDF 2701 Teaching Diverse Populations

2. Common Program Prerequisites (25 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 or
  ARH 2051 The History of Art II or
  MUL 2010 Enjoyment of Music or
  THE 2000 Theatre Survey or
  FIL 1001 Cinema Survey

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 or
  GLY 1030 Geology and its Applications

Select one associated science lab:
  BSC 1005L Biological Principles Laboratory or
  GEO 1200L Physical Geography Laboratory or
  PSC 1121L Physical Science Laboratory

F. Education Courses (9 hrs)
  EDF 2005 Introduction to Education
  EDF 2701 Teaching Diverse Populations

3. Education Preprofessional Requirements (4 hrs)

MAE 2001 Elementary School Mathematics

4. Recommended Sequence

Semester I 15 hrs
  EDF 4233 Professional Teaching Practices (required prior to Internship I)
  EDF 4214 Classroom Learning Principles
  LAE 3414 Children's Literature
  RED 3012 Foundations of Reading (required prior to Internship I)
  TSL 4080 Theory and Practice of Teaching ESOL

Semester II (Internship Block) 12 hrs
  EDE 3942 Internship I

  Prior to Internship I, the student must have completed each of the prerequisite courses indicated above with a letter grade of “C-” (1.75) or better

  See additional requirements listed under College of Education, Office of Clinical Experiences

  RED 4519 Diagnostic & Corrective Reading Strategies (PR: RED 3012)
  MAE 4326 How Children Learn Math
  EEX 4003 Teaching/Management Tech Ex Ed Student in the Regular Setting

Summer 9 hrs
  EDF 4603 Analysis of Critical Issues in Education
  MUE 3210 Teaching Music in the Elementary School
  HLP 4722 Teaching Elementary Health and Physical Education

Note: RED 4519, MAE 4326, and EEX 4003 are taken concurrently with EDE 3942

Semester III 15 hrs
  SCE 3310 Teaching Science in the Elementary School
  SSE 3312 Teaching Social in the Elementary 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

  All methods/specialization/foundations courses (*) must be completed with a letter grade of “C-” (1.75) or better before registering for Internship II

  See additional requirements listed 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

Note: Internship II includes a 3 SH module on assessment

5. 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.
- 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.

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
8. Total Semester Hours Required 128 hours

ENGINEERING TECHNOLOGY - DESIGN 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

Degree Requirements
- Students should check with their ENT faculty 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.

1. UCF General Education Program (38 hrs)
- A. Communication Foundations 9 hrs
  1. ENC 1101, ENC 1102
- B. Cultural and Historical Foundations 9 hrs
  1. MAC 1105
  2. CGS 1060C or STA 2014C
- C. Mathematical Foundations 6 hrs
  1. MAC 2311
- D. Social Foundations 6 hrs
- E. Science Foundations 6 hrs
  1. PHY 2053C
  2. BSC 1005L, BSC 1050L or GEO 1200L

2. Common Program Prerequisites (CPP) (6/8 hrs)
- MAC 2253 or Calculus I 3/4 hrs
- MAC 2311
- MAC 2514 or Calculus II or equiv 3/4 hrs
- PHY 2053C or Calculus II Lab 4 hrs

3. Engineering Technology Core Requirements (23-24 hrs)
- ANT 2511, BSC 1005, BSC 1050, GEO 1200,
- GEO 2370 or GLY 1030
- ENC 3241 Writing for the Technical Professional 3 hrs
- MAC 1103 College Algebra 3 hrs
- MAC 114 College Trigonometry 3 hrs
- MAC 2253 or Calculus I 4 hrs
- MAC 2311
- MAP 3401 Problem Analysis or 3 hrs
- MAP 3412 Calculus II 4 hrs
- PHY 2053C College Physics I 3 hrs
- ETG 3541 Applied Mechanics 3 hrs
- ETI 3651C Computer Applications 3 hrs
- ETI 3671 Technical Economic Analysis 3 hrs
- ETI 3116 Applied Engineering Quality Assurance 3 hrs
- ETI 4635 Technology Administration 3 hrs

4. Technical Specialization (61 hrs)

Lower Level Required and Elective Courses (28 hrs)
- EST 3543C Programmable Logic Controllers 3 hrs
- CHM 1032, 1032L General Chemistry, Lab 4 hrs
- COP 3223 C Language or equiv 3 hrs
- EET 3085C Electricity and Electronics 4 hrs
- EGN 1111C Engnr Computer Graphics 2 hrs

Approved Lower Level Technical Electives 12 hrs

Upper Level Required Courses (21 hrs)
- EST 4502C Metrology & Instrumentation 4 hrs
- ETI 3350C Applied CADD 3 hrs
- ETI 3533C Applied Engineering Strength of Materials 4 hrs
- ETI 3621 Materials & Processes 3 hrs
- EMT 4220 Applied Energy Systems 4 hrs
- ETI 4448 Applied Project Management 3 hrs

Upper Level Technical Elective (Select 5) (12 hrs)
- ETC 4206 Construction Estimating 3 hrs

ETC 4214C 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
ETM 4331C Applied Fluid Mechanics 4 hrs
ETM 4512C Applied Design of Machine Elements 3 hrs
ETI 3413C Computer Numerical Controls 3 hrs

5. Departmental Graduation Requirement (3 hrs)
- 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 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 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

Fall 13/14 hrs Spring 14 hrs
- MAC 2253/2311 Calculus I 3/4 hrs MAP 3401 Problem Analysis 3
- ETG 3541 Applied Mechanics 3
- ETI 3116 App Eng Qual Assur 3
- PHY 2053C/2054 Physics I 4

UCF Degree Programs

UCF Graduation: none
- One year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
- Two years of one foreign language in high school, or
- A grade of 2.0 or better is required in all prerequisites.
- 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)
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 faculty 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.

1. UCF General Education Program (38 hrs)

A. Communication Foundations 9 hrs

ENC 1101, ENC 1102
Elective, either SPC 1016, or

B. Cultural and Historical Foundations 9 hrs

MAC 1105

C. Mathematical Foundations 3 hrs

MAC 2311

D. Social Foundations 6 hrs

E. Science Foundations 4 hrs

PHY 2053C

2. Common Program Prerequisites (CPP) (6/8 hrs)

MAC 2253 or MAC 2311

MAC 2512

MAC 2254 or

MAC 2512

PHY 2053C or PHY 2048/L

3. Engineering Technology Core Requirements (23-24 hrs)

ANT 2501, BSC 1055, BSC 1056, GEO 1000,

GEO 2370, or GLY 1030

ENC 3241

MAC 1114

MAC 2253 or

MAC 2311

MAP 3401

MAC 2312

PHY 2053C

ETG 3541

ETG 3530C

ETG 3533C

4. Technical Specialization (61 hrs)

Lower Level Required and Elective Courses (28 hrs)

EST 3543C

CHM 1032, 1032L

COP 3223

EET 3085C

EGN 1111C

Approved Lower Level Technical Electives

Upper Level Required Courses (21 hrs)

ETI 4650C

ETI 3421

ETI 4448

ETM 4220

ETM 4225

ETI 4640

ETI 4661C

ETI 4700

ETM 4333C

ETI 3418C

5. Departmental Graduation Requirement (3 hrs)

ETG 4950C Senior Design Project

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: 1 year of one foreign language

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 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
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, FL 32899

http://www.ent.ucf.edu

Coordinator: Dr. Nebil Misconi 407-823-4476 or 321-459-0199

Admission Requirements  
none

Degree Requirements

- Students should check with their ENT faculty advisor frequently to assure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites.

1. UCF General Education Program  
(38 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>ENC 1101</td>
<td>English Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>English Composition II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Prefer SPC 1016</td>
<td>Technical Writing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
<td></td>
</tr>
<tr>
<td>MAC 1015</td>
<td>College Algebra</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>3 hrs</td>
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</tr>
<tr>
<td>PHY 2048/L and 2049/L</td>
<td>Physics I or II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
<td></td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>4 hrs</td>
<td></td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calculus II</td>
<td>3/4 hrs</td>
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<tr>
<td>MAC 2313</td>
<td>Calculus III</td>
<td>3 hrs</td>
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<tr>
<td>PHY 2053C or PHY 2054C</td>
<td>Physics I or II</td>
<td>4 hrs</td>
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<tr>
<td>PHY 2048L</td>
<td>Physics I Lab</td>
<td>4 hrs</td>
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2. Common Program Prerequisites (CPP)  
(6/8 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>MAC 2253 or MAC 2254</td>
<td>Calculus I or II</td>
<td>3/4 hrs</td>
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<tr>
<td>MAC 2255</td>
<td>Calculus III</td>
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<tr>
<td>MAC 2256 or MAC 2257</td>
<td>Calculus IV or V</td>
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<tr>
<td>PHY 2053C or PHY 2054C</td>
<td>Physics I or II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>Phys 2048L</td>
<td>Physics Lab</td>
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</table>

3. Engineering Technology Core Requirements  
(23 hrs)

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<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>AST 2002</td>
<td>Astronomy</td>
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<tr>
<td>ENC 3241</td>
<td>Writing for the Technical Professional</td>
<td>3 hrs</td>
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<tr>
<td>MAC 1015</td>
<td>College Algebra</td>
<td>GEP</td>
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<tr>
<td>MAC 1114</td>
<td>College Trigonometry</td>
<td>3 hrs</td>
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<tr>
<td>MAC 2253 or MAC 2254</td>
<td>Calculus I or II</td>
<td>GEP</td>
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<td>MAC 2255</td>
<td>Calculus III</td>
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<td>MAP 3401</td>
<td>Problem Analysis</td>
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<td>MAC 2312</td>
<td>Calculus II</td>
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<td>PHY 2053C</td>
<td>Physics I</td>
<td>CPP</td>
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<td>ETG 3541</td>
<td>Applied Mechanics</td>
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<tr>
<td>ETG 3651C</td>
<td>Computer Applications</td>
<td>2 hrs</td>
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<td>ETG 3671</td>
<td>Technical Economic Analysis</td>
<td>3 hrs</td>
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<td>ETG 3616</td>
<td>Applied Engineering Quality Assurance</td>
<td>3 hrs</td>
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<tr>
<td>ETG 3635</td>
<td>Technology Administration</td>
<td>3 hrs</td>
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4. Technical Specialization  
(58 hrs)

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<td>EST 3543C</td>
<td>Pro Log Controllers</td>
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<td>CHM 1021, 10322 and 10323</td>
<td>General Chemistry with Lab</td>
<td>4 hrs</td>
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<tr>
<td>CTV 2360</td>
<td>Systems Appl. in C</td>
<td>3 hrs</td>
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<tr>
<td>EET 3085C</td>
<td>Electricity and Electronics</td>
<td>3 hrs</td>
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<tr>
<td>EGN 1111C</td>
<td>Eng Computer Graphics</td>
<td>2 hrs</td>
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<tr>
<td>Approved Lower Level Technical Electives</td>
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Upper Level Required and Elective Courses  
(21 hrs)

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<tr>
<td>EST 4502C</td>
<td>Metrology &amp; Instrumentation</td>
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<tr>
<td>ETD 3350C</td>
<td>Applied CAD</td>
<td>3 hrs</td>
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<tr>
<td>ETG 3533C</td>
<td>Applied Engineering Strength of Materials</td>
<td>4 hrs</td>
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<tr>
<td>EET 4225</td>
<td>Applied Energy Systems</td>
<td>4 hrs</td>
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<td>ETI 4438C</td>
<td>Launch Processing Technology</td>
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<tr>
<td>ETI 4430C</td>
<td>Space Systems Technology</td>
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Upper Level Technical Electives (Select 4)  
(12 hrs)

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<tr>
<td>ETI 4437</td>
<td>Technology of Small Space Payloads</td>
<td>3 hrs</td>
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<tr>
<td>ETG 33XX</td>
<td>Space Materials Technology</td>
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<td>EET 4838</td>
<td>Space Flight Dynamics Technology</td>
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<tr>
<td>ETI 4835</td>
<td>Rocket Propulsion Technology</td>
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<td>ETI 4839</td>
<td>Space Electro-Optics Technology</td>
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<td>ETI 4150</td>
<td>Spacecraft QA and Testing</td>
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<td>ETI 4381</td>
<td>Ground System Design</td>
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<tr>
<td>ETG 40XX</td>
<td>Space Biotechnology</td>
<td>3 hrs</td>
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<tr>
<td>ETG 44XX</td>
<td>Space Power Systems</td>
<td>3 hrs</td>
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5. Departmental Graduation Requirement  
(3 hrs)

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>ETG 4950C</td>
<td>Senior Design Project</td>
<td>3 hrs</td>
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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 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 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.
### 5. Departmental Exit Requirements
- Maintain a minimum GPA of 2.0 in upper division required courses.
- Computer Competency met by completion of CRW 3013

### 6. Foreign Language Requirements

**Admission:** Met by graduation requirement

**Graduation:** Three semesters or equivalent proficiency exam. 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.

### 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 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
- 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

Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
ENGLISH - LITERATURE (B.A.)
College of Arts and Sciences
English Department, CNH 301,
http://english.ucf.edu
E-mail: english@ucf.edu
P. Murphy, 407-823-2212

Admission Requirements
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 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 SPC 1600 Fund of Oral Com 3 hrs
B. Cultural and Historical Foundations
C. Mathematical Foundations
Select MGF 1106 Finite Mathematics 3 hrs
(may substitute a higher level math)
Prefer STA 1060C Statistics Using Excel 3 hrs
D. Social Foundations
6 hrs
E. Science Foundations
6 hrs

2. Common Program Prerequisites
ENC 1101* Composition I GEP
ENC 1102* Composition II GEP
*See Transfer Notes for possible substitutes

3. Core requirements (15 hrs)
Choose five literary history courses, two of which must focus entirely on early literature (pre-1865). Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.
AML 3031 American Literature I 3 hrs
AML 3051 American Literature II 3 hrs
AML 3283 Contemp American Women's Fiction 3 hrs
AML 3614 Topics in African American Literature 3 hrs
AML 3615 Harlem, Haiti, and Havana 3 hrs
AML 3640 Native American Literature 3 hrs
AML 4101 American Novel 3 hrs
AML 4153 American Poetry at Mid-Century 3 hrs
AML 4261 Literature of the South 3 hrs
AML 4265 Florida Writers 3 hrs
AML 4267 Modern American Literature 3 hrs
ENL 2012 English Literature I 3 hrs
ENL 2021 English Literature II 3 hrs
ENL 4101 English Novel 3 hrs
ENL 4220 English Renaissance Poetry and Prose 3 hrs
ENL 4230 Eighteenth Century Studies 3 hrs
ENL 4240 English Romantic Writers 3 hrs
ENL 4253 The Victorian Age: Poetry 3 hrs
ENL 4262 Nineteenth Century British Prose 3 hrs
ENL 4273 Modern British Literature 3 hrs
LIT 3082 Continental European Fiction Since 1900 3 hrs
LIT 3192 Caribbean Literature 3 hrs
LIT 4043 Modern Drama as Literature 3 hrs
LIT 4184 Irish Literature 3 hrs
LIT 4300 Post-World War II Fiction 3 hrs
LIT 4374 Literature of the Bible 3 hrs

4. Upper Division Restricted Electives (21 hrs)
ENG 3014 Theory & Tech of Literary Study 3 hrs
(Lit is a prerequisite for all 4000 level AML, ENG, ENL or LIT courses)
Choose one of the following gateway courses: 3 hrs
CRW 3033 Creative Writing for English Majors
ENC 3211 Theory & Practice of Tech Writing
Choose one single author or major author course 3 hrs
Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

ENL 4311 Chaucer
ENL 4341 Milton
ENL 4333 Shakespeare
Choose one linguistics or theory course: 3 hrs
ENG 3010 Practical Criticism
LIN 3010 Principles of Linguistics
LIN 4100 History of the English Language
LIN 4643 Cross Cultural Communication
LIN 4680 Modern English Grammar
LIT 4554 Advanced Feminist Theory
Choose three upper level courses: 9 hrs
AML, ENL, or LIT prefix

5. Departmental Exit Requirements
Maintain a minimum GPA of 2.0 in upper division required courses.
Computer Competency met by completion of ENG 3014.

6. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement
Graduation: Three semesters or equivalent proficiency exam. With departmental approval, a multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation 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: Creative Writing, Technical Writing
Related Minors: Creative Writing, Linguistics, Literature, 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 Literature if taken prior to transferring to UCF:
ENG 1101* & 1102*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. However ENG 1101 & 1102 are prerequisites for all subsequent English courses and will need to be taken for the major.
ENGLISH - TECHNICAL WRITING (B.A.)

College of Arts and Sciences
English Department, CNH 301
http://english.ucf.edu
E-mail: english@ucf.edu
P. Murphy, 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 (10 hrs)
- 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 9 hrs
      Select SPC 1600 Fund of Oral Com 3 hrs
   B. Cultural and Historical Foundations 6 hrs
      Select MGF 1106 Finite Mathematics 3 hrs
      (may substitute a higher level math)
      Prefer STA 1060C Statistics Using Excel 3 hrs
   C. Mathematical Foundations 6 hrs
      Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.
   D. Social Foundations 6 hrs
      Select SPC 1600 Fundamentals of Oral Communication 3 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites
   ENC 1101* Composition I GEP
   ENC 1102* Composition II GEP
   *See Transfer Notes for possible substitutes

3. Core courses-Basic (15 hrs)
   ENC 3211 Theory & Practice of Tech Writing 3 hrs
   Choose one of the following:
   ENL 3014 Theory & Tech of Literary Study 3 hrs
   CRW 3013 Creative Writing for English Majors 3 hrs
   Choose three of the following:
   ENL 2012 English Literature I 3 hrs
   ENL 2021 English Literature II 3 hrs
   AML 3031 American Literature I 3 hrs
   AML 3051 American Literature II 3 hrs

4. Core requirements-Advanced (24 hrs)
   ENC 3311 Advanced Expository Writing 3 hrs
   ENC 4293 Technical Documentation I 3 hrs
   ENC 4294 Technical Documentation II 3 hrs
   ENC 4295 Technical Documentation III 3 hrs
   ENC 4215 Techniques of Tech Publication 3 hrs
   ENC 4218 Visual Elements in Documentation 3 hrs
   ENC 4280 Technical Writing Style 3 hrs
   LIT 4433 Technical and Sci Literature 3 hrs

5. Restricted Upper Division Electives (3 hrs)
   Choose one of the following:
   ENC 4414 Studies in Hypertext 3 hrs
   ENC 4415 Digital Rhetorics 3 hrs
   ENC 4285 Writing for the Computer Industry 3 hrs
   Optional course
   ENC 4941 Tech Writing & Editing Internship 3 hrs

6. Departmental Exit Requirements
- Maintain a minimum GPA of 2.0 in upper division required courses.
- Computer Competency met by completion of ENC 4293

7. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement
   Graduation: Three semesters or equivalent proficiency exam. With departmental approval, a multicultural or related course 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
   B. 60 semester hours earned after CLEP awarded
   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. A minimum of 45 hours of extension, correspondence, CLEP. Credit by Exam, and Armed Forces credits permitted
   F. 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: Creative Writing, Literature
Related Minors: Creative Writing, Literature, 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 Technical 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. However ENC 1101 & 1102 are prerequisites for all subsequent English courses and will need to be taken for the major.

ENGLISH LANGUAGE ARTS EDUCATION (B.S.)

College of Education
Department of Teaching and Learning Principles
ED building, second floor, 407-823-5791
http://www.edcollege.ucf.edu/
Coordinator: Donna Camp
E-mail: camp@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 four parts of the CLAST examination.
- Complete prerequisite courses.

Degree Requirements:
- Students should see an advisor.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 3 hrs
      ENC 1101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
      SPC 1600 Fund of Oral Communication 3 hrs
   B. Cultural-Historical Foundations 9 hrs
      AMH 1010 U.S. History 1492-1877 3 hrs
      AMH 2020 U.S. History 1877-Present 3 hrs
      PHI 2010 Introduction to Philosophy 3 hrs
   C. Mathematical Foundations 6 hrs
      MGF 1106 Finite Mathematics 3 hrs
      STA 1060C Basic Statistics Using Excel 3 hrs
      STA 204C Principles of Statistics 3 hrs
   D. Social Foundations 6 hrs
      POS 2041 American National Government 3 hrs
      PSY 2012 General Psychology 3 hrs
      E. Science Foundations 6 hrs

Total Semester Hours Required: 120 hours

Related Programs: Creative Writing, Literature
Related Minors: Creative Writing, Literature, Linguistics, Technical Writing, Writing

Transfer Notes:
- 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 Technical 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. However ENC 1101 & 1102 are prerequisites for all subsequent English courses and will need to be taken for the major.

Total Semester Hours Required: 120 hours

Related Programs: Creative Writing, Literature
Related Minors: Creative Writing, Literature, 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 Technical 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. However ENC 1101 & 1102 are prerequisites for all subsequent English courses and will need to be taken for the major.
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 or
  ARH 2051 The History of Art II or
  MUL 2010 Enjoyment of Music or
  THE 2000 Theatre Survey or
  FIL 1001 Cinema Survey

C. Mathematics (9 hrs)
  MAC 1105 College Algebra
  MGF 1106 Finite Mathematics

One of the following (per GEP)
  STA 100C Basic Statistics Using MS Excel or
  STA 204C Principles of Statistics

D. Social Science/History (12 hrs)
  ANH 2010 U.S. History 1492-1877
  ANH 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
  GEO 1200 Physical Geography or
  GLY 1030 Geology and its Applications

Select one associated science lab:
  1 hr

F. Education Courses (9 hrs)
  EDF 2005 Introduction to Education
  EDG 2701 Teaching Diverse Populations
  EME 2040 Technology for Educators

G. Diversity Courses (3 hrs)

H. Other Program Prerequisites (6 hrs)
  LIT 2110 World Literature I
  ENL 2012 English Literature I to 1798

3. Specialization Requirements (24 hrs)
Specialization requirements total 30 hours, but LIT 2110 and ENL 2012 account for 6 hours.

LIT 2120 World Lit II
  ENL 2021 Eng Lit II to 1950
  AML 3031 American Lit I
  AML 3051 American Lit II
  CRW 3013 Intro Creative Writing
  ENC 3311 Advanced Expository Writing
  LIN 4680 Modern English Grammar
  ENG 3014 Theories of Literature

4. Education Core Requirements (15 hrs)
  EDG 4232 Professional Teaching Practices
  EDF 4603 Analysis of Critical Issues in Education
  EDF 4214 Classroom Learning Principles
  TSL 4080 Theory and Practice of Teaching ESOL
  TSL 4141 Issues in Second Language Acquisition

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)
  Prerequisites: EDG 4232, EDF 4214, LAE 4464, and LAE 4361
  Corequisites: LAE 4360 and LAE 4342

Note: See additional requirements under College of Education, Office of Clinical Experiences
C. Mathematical Foundations  7 hrs
1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs).
   Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
2. Take STA 3032 (3 hrs).
   Note: Calculus II is the prerequisite for this course.

D. Social Foundations  6 hrs
1. Take ECO 2023 or ECO 2024.

E. Science Foundations  7 hrs
1. Take PHY 2048/48L.
2. Take one from either Earth Science (GLY 1030 or GEO 1200 or GEO 2370) or Biological Science (BSC 1005 or BSC 1050).

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. Note: MAC 2281 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  4 hrs
MAC 2281  Calculus for Scientists & Engineers I  GEP
   (MAC 2311 will substitute see above)
MAC 2282  Calculus for Scientists & Engineers II  GEP
   (MAC 2312 will substitute see above)
MAC 2283  Calculus for Scientists & Engineers III  GEP
   (MAC 2313 will substitute see above)
MAP 2302  Differential Equations  3 hrs
PHY 2048/48L  Physics for Engineers & Scientists I  GEP
PHY 2049/49L  Physics for Engineers & Scientists II  GEP
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 Major  (60 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 elective technical 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
Chnl 2046/46L  Chemistry Fundamentals II w/Lab  4 hrs
Earth Science  GEP
Biological Science  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 3613  Engineering Economic Analysis  2 hrs
EGN 3373  Principles of Electrical Engineering  3 hrs
CSS 3003  Intro to the Construction Industry  3 hrs
Env 3001  Intro to Environmental Engineering  3 hrs
STA 3032  Probability & Statistics for Engineers  3 hrs

*CHM 2045C or 2043C  Chemistry Fundamentals I  4 hrs
*MAC 2281  Calculus for Scientists & Engineers I  4 hrs
*MAC 2282  Calculus for Scientists & Engineers II  4 hrs
*MAC 2283  Calculus for Scientists & Engineers III  4 hrs
*MAP 2302  Differential Equations  3 hrs
*PHY 2048L  Physics for Engineers & Scientists I  4 hrs
*PHY 2049L  Physics for Engineers & Scientists II  4 hrs
*ENC 1101  Composition I  4 hrs
*ENC 1102  Composition II  4 hrs

Humanities Courses  GEP
Social Science Courses  GEP
Humanities or Social Sciences  GEP

4. Approved Technical Electives  (5 hrs)
Technical electives are available in the BSEnE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of 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 each of the following two areas: (a) the Engineering Core and (b) the EnVE Option, which includes the Major Courses from 3. above, the technical electives from 4., and the Approved EnVE Design Courses.
- EnVE students must take the Engineering Intern 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 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.
Related Minors: Chemistry, Environmental Studies, Mathematics.
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
- *ECON 1101 English Comp I  3 hrs
- *MAC 2281 Calc Sci & Eng I  4 hrs
- PHY 2049/49L Phys Engr&Sci II  4 hrs
- ENC 1101 Composition I  4 hrs
- EGN 1006C Intro to Engr  1 hr

Spring
- *ECON 1102 English Comp II  3 hrs
- *MAC 2282 Calc Sci & Eng II  4 hrs
- ENC 1102 Composition II  4 hrs
- EGN 1007C Eng Conc & Meth  1 hr

SECOND YEAR
Fall
- *MAC 2283 Calc Sci & Eng III  4 hrs
- *CHM 2045C Chemistry Funds I  4 hrs
- *HUM/AMH/EUH I  3 hrs
- *EGN 3310 Engr Anal-Statics  3 hrs
- *EGN 3312 Engr Anal-Dynamics  3 hrs
- *EGN 3331 Principles of Electrical Engn  3 hrs
- *STA 3032 Intro to Environ Eng  3 hrs
- *Env 3001 Intro to Environ Eng  3 hrs
- *EE 3114 Hydrology  3 hrs
- *EN 4121 Solid Waste Management  3 hrs
- *EN 4561 Environmental Engng-Process Design  4 hrs
- *EN 4563 Environmental Control Systems  3 hrs
- *Note: Environmental engineering majors must complete both Earth Science and Biological Science coursework. See assigned academic advisor for list of approved courses.

Spring
- *MAC 2282 Calc Sci & Eng II  4 hrs
- *CHM 2045C Chemistry Funds I  4 hrs
- *HUM/AMH/EUH I  3 hrs
- *EN 4121 Solid Waste Management  3 hrs
- *EN 4561 Environmental Engng-Process Design  4 hrs
- *EN 4563 Environmental Control Systems  3 hrs
- *STA 3032 Probilit/Statts for Eng  3 hrs

THIRD YEAR
Fall
- *CWR 3201 Engr Fluid Mech  3 hrs
- *ANT/PSY/SYG  3 hrs
- *EGN 3321 Mech of Materials  3 hrs
- *EN 4341 Solid/Haz Waste  3 hrs
- *EN 3373 Engr Analysis-Statics  3 hrs
- *EN 3374 Engr Analysis-Dynamics  3 hrs
- *EN 4561 Environmental Engng-Process Design  4 hrs
- *EN 4563 Environmental Control Systems  3 hrs
- *STA 3032 Probilit/Statts for Eng  3 hrs

Spring
- *CWR 3201 Engr Fluid Mech  3 hrs
- *ANT/PSY/SYG  3 hrs
- *EGN 3321 Mech of Materials  3 hrs
- *EN 4341 Solid/Haz Waste  3 hrs
- *EN 3373 Engr Analysis-Statics  3 hrs
- *EN 3374 Engr Analysis-Dynamics  3 hrs
- *EN 4561 Environmental Engng-Process Design  4 hrs
- *EN 4563 Environmental Control Systems  3 hrs
- *STA 3032 Probilit/Statts for Eng  3 hrs
FOURTH YEAR

Fall 13 hrs Spring 14 hrs
ENV 4563 Envrnmntl Contr Sys 3 Approved Proj Design Course 3
ENV 4561 Process Design 4 Approved Proj Design Course 4
EES 4202C Cheml Proct Control 3 EES 4111C Biologcl Proc Cntrl 3
CCE 4003 Intro to Constr Indus 3 Technical Elective 3
Technical Elective 2

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.

EXCEPTIONAL STUDENT EDUCATION (B.S.)
College of Education
Department of Child, Family and Community Sciences
ED building, second floor, 407-823-2598
http://www.edcollege.ucf.edu/
Chair: Wilfred Wienke, 407-823-2598
E-mail: wwwienke@mail.ucf.edu
Program Coordinator: Lee Cross, 407-823-5477
E-mail: lcross@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 four parts of the CLAST examination (no alternatives are accepted)
- Complete common program prerequisite courses

Degree Requirements:
- Students should consult with an advisor
- Students must earn at least a "C-" (1.75) in each required Exceptional Education course
- The courses designated in 1 (General Education) and 2 (Common Program Prerequisites) should usually 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
      SPC 1000 Fundamentals of Oral Communication 3 hrs
   B. Cultural-Historical Foundations* (9 hrs)
      AMH 1010 U.S. History 1492-1877 3 hrs
      AMH 2010 U.S. History 1877-Present 3 hrs
   C. Mathematical Foundations* (6 hrs)
      MGF 1106 Finite Mathematics 3 hrs
      Select one:
      STA 100C Basic Statistics using MS Excel or
      STA 2014C Principles of Statistics 3 hrs
   D. Social Foundations (6 hrs)
      POS 2041 American National Government 3 hrs
      GSEY 2012 General Psychology 3 hrs
   E. Science Foundations (6 hrs)
      SCI 1011 Physical Science 3 hrs
      Select one:
      ANT 2511 The Human Species or
      BSC 1005 Biological Principles 3 hrs
   F. Humanities (6 hrs)
      PHI 1010 Introduction to Philosophy 3 hrs
      Select one:
      ARH 2051 The History of Art I or
      ARH 2050 The History of Art II or
      MUL 1020 Enjoyment of Music or
      THE 2000 Theatre Survey or
      FIL 1001 Cinema Survey
   G. Mathematics (9 hrs)
      MAC 1115 College Algebra 3 hrs
      Select one:
      MGF 1106 Finite Mathematics 3 hrs
      STA 100C Basic Statistics using MS Excel or
      STA 2014C Principles of Statistics

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (25 hrs)
   A. Communications (9 hrs)
      ENC 1101 Composition I
      ENC 1102 Composition II
      SPC 1000 Fundamentals of Oral Communication
   B. Mathematics (6 hrs)
      PHI 1010 Introduction to Philosophy
      Select one:
      ARH 2051 The History of Art I
      ARH 2050 The History of Art II
      MUL 1020 Enjoyment of Music
      THE 2000 Theatre Survey
      FIL 1001 Cinema Survey
   C. Mathematics (9 hrs)
      MAC 1115 College Algebra
      Select one:
      MGF 1106 Finite Mathematics
      STA 100C Basic Statistics using MS Excel

3. Exceptional Education Preprofessional Requirements (7 hrs)
   EEX 2010 Orientation to Special Education 3 hrs
   MAF 2091 Elementary School Mathematics 3 hrs

4. Education Core Requirements: (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

Internship I Prerequisites:
The following courses must be taken before registering for Internship I. Students must be recommended by the faculty for Internship I.

5. Specialization Core Requirements (33 hrs)
   RED 3012 Basic Foundations of Reading 3 hrs
   RED 4519 Diagnostic and Corrective Reading 3 hrs
   RED 4043 Content Reading K-12 3 hrs
   LAE 4314 Language Arts in Elem Schools 3 hrs
   TSL 4008 Theory and Practice of Teaching ESOL 3 hrs
   Students in Schools
   TSL 4141 Issues in Second Language Acquisition 3 hrs
   EEX 3241 Methods of Academic Skills Ex Ed 3 hrs
   EEX 4601 Intro to Behavior Management 3 hrs
   EEX 3243 Techniques for Ex Adolescents and Adults 3 hrs
   EEX 4753 Parent Professional Collaboration 3 hrs

6. Specialization Special Education (5 hrs)
   EEX 4054 Applications and Theories for Students with Special Needs 2 hrs
   EEX 4066 Curriculum and Instructional Strategies and 3 hrs
   Curriculum for Students with Special Needs

Internship Requirements
   EEX 3894 Internship I 3 hrs
   EEX 4943 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.)

UCF Degree Programs
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 Semester Hours Required 127 hours

FILM - B.F.A. TRACK
College of Arts and Sciences
Department of Film, COM 121, 407-823-3456
http://www.film.ucf.edu
E-mail: film@ucf.edu
Chair: Sterling Van Wagenen

Admission Requirements
- The Film major is a limited access program.
- Achieve an overall minimum 2.5 GPA before applying.
- Entrance into most Film Classes is restricted to Majors.
- Exceptions must be approved by Department Chair.
- Applications to become a Film major are required by January 6 for admission to the subsequent Fall term
- A portfolio review is required for entry into the Film major.
- Contact the Film Department 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 evaluation.
- 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.
- All students are required to pay a nominal fee for equipment insurance.
- Departmental Residency Requirement consists of at least 63 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Department.
- Due to the conservative nature, the BFA demands a closely integrated curriculum. Therefore, transfers are not generally encouraged to pursue a BFA program. However, exceptionally talented students who have completed the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System may be admitted.
- Courses designed in 1 (General Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      Communications Skills
      9 hrs
   B. Cultural and Historical Foundations
      Select one 2 semester sequence
      6 hrs
      or Select FIL 2400 History of Motion Pictures
      3 hrs
      or Select FIL 1001 Cinema Survey
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics
      3 hrs
      (may substitute a higher level math)
      or Prefer CGS 1060C Intro to Computer Sci
      3 hrs
      or STA 1060C Statistics Using Excel
   D. Social Foundations
      6 hrs
   E. Science Foundations
      6 hrs

2. Common Program Prerequisites (6 hrs)
   FIL 2400 History of the Motion Pictures
   FIL 1001 Cinema Survey
   FIL 1007 Foundations of Story

3. Lower Level Core Requirements (18 hrs)
   FIL 2107 Script Analysis
   FIL 1009A Cinematic Expression/Aesthetic
   FIL 2274C Editing I
   FIL 2220 Directing I
   FIL 2200 Cinematography I
   FIL 2930 Film Acting

4. Upper Level Core Requirements (45 hrs)
   FIL 3922 Film Colloquium
   FIL 3201C Intro to Film Production
   FIL 3401 Film History I
   FIL 3402 Film History II
   FIL 3XXX Production Sound
   FIL 4208 Directing II
   FIL 3503C Film Theory and Criticism I
   FIL 3124 Short Script I
   FIL 4604 The Film Producer
   FIL 4203C Capstone I
   FIL 4211C Capstone II
   FIL 3625 Interactive Entertainment I
   Select one course:
   FIL 3125 Short Script II
   or FIL 4111C Feature/TV Writing

5. Upper Level Restricted Electives (18 hrs)
   Select six courses from the following. Must complete 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 4223 Design for Film
     FIL 4210C Cinematography II
     FIL 4212 Sound Design I
     FIL 4XXX Sound Design II
     FIL 4807 Film Production Management
     FIL 4213C Editing II
     FIL 3XXX Film Documentary
     FIL 4228 Directing III
   - Screen Writing
     FIL 4103 Adaptation
     FIL 4112C Feature/TV Writing II
     FIL 4113C Interactive Writing I
     FIL 414C Interactive Writing II
     FIL 4504C Genre Writing
   - Cinema Studies
     FIL 3520 Italian Film
     FIL 3521 French Film
     FIL 3522 German Film
     FIL 3XXX American Cinema
     FIL 3412 Black Cinema
     FIL 3309 Women in Film
     FIL 3507 Film Theory and Criticism II
     FIL 3XXX Black Images in Film
   - Digital Cinema
     ART 2820 Art as Interface
     ART 3618C Post Production Design
     FIL 3624 Converging Media
     IDS 3XXX Digital Imagery
     IDS 3701C Internet Software Design
     IDS 4881 Modeling for Realtime Graphics
     MUC 311 MIDI Sequencing I
     COP 3502C Computer Science I
     ENC 4415 Digital Rhetoric & Modern Dialectic

6. Departmental Exit Requirements
- A student must maintain an overall average of "B" (3.0) or better in major courses.
- Computer Competency met by Computer Science Courses.
- Department of Film requires taking an exit examination.

7. Foreign Language Requirements
   Admission: Met by graduation requirement
   Graduation: One year college level or equivalent proficiency exam.
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

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: Animation, Art, Cinema Studies, Creative Writing, Digital Media, Music, Theatre, Radio/TV, World Cinema

Related Minors: Art, Cinema Studies, Creative Writing, Digital Media, 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
- FIL 1001 may substitute FIL 2400
- FIL 1007 may use any introductory 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 Sciences
School of Film and Digital Media, COM 121, 407-823-3456
http://www.cas.ucf.edu/film

E-mail: film@ucf.edu
Director: Sterling Van Wagenen

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
- All students are required to pay a nominal fee for equipment insurance
- Co-op or internship credit cannot be used in this major
- Students must consult with a departmental advisor
- Departmental Residency Requirement consists of at least 60 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department Film 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 (36 hrs)
   A. Communication Foundations
      - FIL 2107 Script Analysis
      - FIL 2201 Foundations of Production
      - FIL 3124 Short Script or FIL 3102
   B. Cultural and Historical Foundations
      - FIL 3006 Art of the Cinema
      - FIL 3252C Cinematic Expression/Aesthetics
      - FIL 3300C Film Documentary
   C. Mathematical Foundations
      - Select MGF 1106 Finite Mathematics (may substitute a higher level math)
      - Select MGF 1106 Finite Mathematics (may substitute a higher level math)
      - STA 1060C Statistics Using Excel
   D. Social Foundations
      - FIL 4628 World Cinema Traditions
      - FIL 4XXX American Cinema
      - FIL 33510 World Cinema Traditions
   E. Science Foundations
      - FIL 3503C Film Theory and Criticism I
      - FIL 2107 Script Analysis
      - FIL 4604 The Film Producer

2. Common Program Prerequisites (6 hrs)
   FIL 2400* History of the Motion Pictures or FIL 1001 Cinema Survey
   FIL 1007* Foundations of Story
   *see Transfer Notes for possible substitutes

3. Core Requirements (48 hrs)
   FIL 2400* History of the Motion Pictures or FIL 1001 Cinema Survey
   FIL 2201 Foundations of Production
   FIL 3124 Short Script or FIL 3102
   FIL 3006 Art of the Cinema
   FIL 3252C Cinematic Expression/Aesthetics
   FIL 3300C Film Documentary
   FIL 3503C Film Theory and Criticism I
   FIL 3504C Film Theory and Criticism II
   FIL 3401 Film History I
   FIL 3402 Film History II
   FIL 3XXX American Cinema
   FIL 3515 World Cinema Traditions
   FIL 4XXX Cinema Director
   FIL 4XXX Genre Aesthetics
   FIL 4XXX Cinema Criticism (writing)
   FIL 4604 The Film Producer

4. Restricted Upper Division Electives (12 hrs)
   Select from the following upper level FIL courses:
   - FIL 3520 Italian Film
   - FIL 3521 French Film
   - FIL 3522 German Film
   - FIL 3410 History of Animated Films
   - FIL 3522 German Film
   - FIL 3521 French Film
   - FIL 3624 Converging Media
   - FIL 3625 Interactive Entertainment
   - FIL 3629 Film and Internet Business
   (a maximum of 6 hours Independent Study may be used)

5. Required Minor (18 hrs minimum)
   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 Computer Science Competency Courses.

7. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement.
   Graduation: One year college level or equivalent proficiency exam.

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: 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:
- FIL 1001 may substitute FIL 2400
- FIL 1007 may use any introductory course. However, FIL 1007 is a prerequisite for all Cinema Studies courses and must be taken.
FILM-WORLD CINEMA TRACK (B.A.)

College of Arts and Sciences
Department of Film, COM 121, 407-823-3456
http://www.film.ucf.edu
E-mail: film@ucf.edu
Chair: Sterling Van Wagenen

Admission Requirements
- The Film - World Cinemas track is a limited access program.
- Attain an overall minimum 2.5 GPA before applying.
- Students should apply to become Film majors only after completing all requirements for admission to the University.
- 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.
- Departmental residency requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Department.

Degree Requirements

1. UCF General Education Program (36 hrs)
   A Communication Foundations 9 hrs
   B. Cultural and Historical Foundations
      Select one 2-semester sequence 6 hrs
      Select FIL 2400 History of Motion Pictures 3 hrs
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics (May substitute a higher level math) 3 hrs
      Prefer CGS 1100 Intro to Computer Science or STA 1060C Statistics Using Excel 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Requirements (3 hrs)
   FIL 2400 History of Motion Pictures
   FIL 2107 Script Analysis

3. Lower Level Core Requirements (18 hrs)
   FIL 1006 Cinematic Expression/Aesthetic 3 hrs
   FIL 1007 Foundations of Story 3 hrs
   FIL 2107 Script Analysis 3 hrs
   FIL 2201 Foundations of Film Production 3 hrs
   FIL 2XXX Documentary Vision 3 hrs
   FIL 2XXX Documentary Production 3 hrs

4. Upper Level Core Requirements (39 hrs)
   FIL 3510 World Cinemas Traditions 3 hrs
   FIL 3922 Film Colloquium 6 hrs
   (Six semesters of colloquium required @ 1 hr each)
   FIL 3XXX Film Marketing, Distribution & Exhibition 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 3504 Film Theory and Criticism II 3 hrs
   FIL 4XXX The Film Producer 3 hrs
   FIL 4XXX Documentary Field Production 3 hrs
   FIL 4203C Capstone 3 hrs
   FIL 4211C Capstone 3 hrs
   FIL 4XXX Research Methods Film Digital/Media 3 hrs

5. Upper Level Restricted Electives (24 hrs)
   FIL 4XXX Documentary Workshop I 3 hrs
   FIL 4XXX Documentary Workshop II 3 hrs
   FIL 4XXX Documentary Field Production 6 hrs
   FIL 4XXX Documentary Media New Applications 3 hrs
   FIL 4XXX Image/Text Culture 3 hrs

FIL 4XXX Cinemas of African Diaspora 3 hrs
FIL 4607 Film Production Management 3 hrs

6. 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 FIL 4XXX Documentary Media New Applications
- Department of Film requires a passing grade on an exit examination.

7. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement.
   Graduation: One year college level or equivalent proficiency exam.

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).

Related Programs: Animation, Art, Cinema Studies, Creative Writing, Film, Digital Media, Music, Radio/TV, Theatre.
Related Minors: Cinema Studies, Creative Writing, Digital Media, African American Studies, Women Studies, Latin American Studies, Asian 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.

FINANCE (B.S.B.A.)
College of Business Administration
BA 240, 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. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 2203 Comp Fundamentals for Bus 3 hrs
   D. Social Foundations
      Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics 3 hrs
   E. Science Foundation 6 hrs

2. Common Program Prerequisites
   Must be completed with a "C" (2.0) or better.
   ACG 2011 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 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)
Common Body of Knowledge

First Semester in the College of Business Administration:
- GEB 3303: Cornerstone
- GEB 3356: Introduction to Internation Business
First or subsequent semesters depending on major:
- BUL 3310: 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.
- The Finance Major Curriculum consists of 27 semester hours in addition to FIN 3403. Students are required to earn a grade of “C” (2.0) or better in FIN 3403 and all other classes taken toward the major and to have a 2.0 overall average.
- FIN 3403 Business Finance is a prerequisite to all finance courses except FIN 2104, REE 3043, & REE 3433.
- Students wanting to major in Finance 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 take 60 credit hours in courses outside the College of Business.

5. Required Courses
- FIN 3303: Financial Markets
- FIN 3414: Intermediate Corporate Finance
- FIN 3504: Fundamentals of Real Estate
- FIN 4453: Financial Models
- FIN 4514: Portfolio Analysis and Management
- FIN 4533: Speculative Financial Markets
- MAN 4600: International Management
- MAR 4156: Marketing

5. Required Courses
- FIN 3303: Financial Markets
- FIN 3414: Intermediate Corporate Finance
- FIN 3504: Fundamentals of Real Estate
- FIN 4453: Financial Models
- FIN 4514: Portfolio Analysis and Management
- FIN 4533: Speculative Financial Markets
- MAN 4600: International Management
- MAR 4156: Marketing

6. Restricted Electives
- Select three of the following:
  - ACG 3131: Financial Accounting Concepts
  - ACG 3361: Intermediate Managerial Accounting
  - ACG 4401: Accounting Information Systems
  - ECO 4412: Economic Statistics & Econometrics
  - ECP 4403: Bus. Government, & Industrial Orgs
  - ECP 4603: Urban & Regional Economic Problems
  - ECP 4703: Managerial Economics
  - FIN 3470: Financial Statement Analysis
  - FIN 3413: Management of Financial Institutions
  - FIN 4324: Commercial Bank Management
  - FIN 4424: Adv Topics in Financial Management
  - FIN 4514: Portfolio Analysis and Management
  - FIN 4533: Speculative Financial Markets
  - FIN 4604: International Financial Management
  - FIN 4730: Senior Financial Consulting I
  - FIN 4731: Senior Financial Consulting II
  - FIN 4906: Independent Study
  - FIN 4941: Internship
  - MAR 3391: Professional Selling
  - REE 3043: Fundamentals of Real Estate
  - REE 4103: Real Estate Investment Analysis

6. Restricted Electives
- Select three of the following:
  - ACG 3131: Financial Accounting Concepts
  - ACG 3361: Intermediate Managerial Accounting
  - ACG 4401: Accounting Information Systems
  - ECO 4412: Economic Statistics & Econometrics
  - ECP 4403: Bus. Government, & Industrial Orgs
  - ECP 4603: Urban & Regional Economic Problems
  - ECP 4703: Managerial Economics
  - FIN 3470: Financial Statement Analysis
  - FIN 3413: Management of Financial Institutions
  - FIN 4324: Commercial Bank Management
  - FIN 4424: Adv Topics in Financial Management
  - FIN 4514: Portfolio Analysis and Management
  - FIN 4533: Speculative Financial Markets
  - FIN 4604: International Financial Management
  - FIN 4730: Senior Financial Consulting I
  - FIN 4731: Senior Financial Consulting II
  - FIN 4906: Independent Study
  - FIN 4941: Internship
  - MAR 3391: Professional Selling
  - REE 3043: Fundamentals of Real Estate
  - REE 4103: Real Estate Investment Analysis

7. Finance Track: International Business
- Required Courses** 9 hrs
  - FIN 3303: Financial Markets
  - FIN 3414: Intermediate Corporate Finance
  - FIN 3504: Investment Analysis

7. Finance Track: International Business
- Required Courses** 9 hrs
  - FIN 3303: Financial Markets
  - FIN 3414: Intermediate Corporate Finance
  - FIN 3504: Investment Analysis

- Required International Courses** 9-15 hrs
  - ACG 4252: International Accounting
  - ECO 4701: The Global Economy
  - FIN 4604: International Financial Management
  - MAN 4600: International Management
  - MAR 4156: International Marketing

7. Finance Track: International Business
- Required Courses** 9 hrs
  - FIN 3303: Financial Markets
  - FIN 3414: Intermediate Corporate Finance
  - FIN 3504: Investment Analysis

- Required International Courses** 9-15 hrs
  - ACG 4252: International Accounting
  - ECO 4701: The Global Economy
  - FIN 4604: International Financial Management
  - MAN 4600: International Management
  - MAR 4156: International Marketing

- Electives*** 3-9 hrs
  - FIN 4313: Management of Financial Institutions
  - FIN 4324: Commercial Bank Management
  - FIN 4424: Advanced Topics in Financial Management
  - FIN 4453: Financial Models
  - FIN 4514: Portfolio Analysis and Management
  - FIN 4530: Real Estate Investment Analysis
  - GEB 4358: International Negotiations and Transactions
  - GEB 4363: Export and Import Management
  - * Required for BSBA-FIN-IB track
  - ** Required international + electives must add up to 18 hours
  - *** Approved internship or independent study may be used for up to three credit hours.

7. Finance Track: International Business
- Required Courses** 9 hrs
  - FIN 3303: Financial Markets
  - FIN 3414: Intermediate Corporate Finance
  - FIN 3504: Investment Analysis

- Required International Courses** 9-15 hrs
  - ACG 4252: International Accounting
  - ECO 4701: The Global Economy
  - FIN 4604: International Financial Management
  - MAN 4600: International Management
  - MAR 4156: International Marketing

- Electives*** 3-9 hrs
  - FIN 4313: Management of Financial Institutions
  - FIN 4324: Commercial Bank Management
  - FIN 4424: Advanced Topics in Financial Management
  - FIN 4453: Financial Models
  - FIN 4514: Portfolio Analysis and Management
  - FIN 4530: Real Estate Investment Analysis
  - GEB 4358: International Negotiations and Transactions
  - GEB 4363: Export and Import Management
  - * Required for BSBA-FIN-IB track
  - ** Required international + electives must add up to 18 hours
  - *** Approved internship or independent study may be used for up to three credit hours.

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

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 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. 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 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***
- As necessary to result in 120 total credit hours

10. Electives***
- As necessary to result in 120 total credit hours

UCF Degree Programs

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
UFC Degree Programs

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 or 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 - FINANCE

Freshman

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>ENC 1101*</td>
<td>ENC 1102*</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Cul Hist I*</td>
<td>Cul Hist II*</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1600</td>
<td>Ant/Music/Lit</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>**Elective</td>
<td>MAC 1105*</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>**Elective</td>
<td>CEG 2100C*</td>
</tr>
<tr>
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Must complete nine hours in a summer semester

Sophomore

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>ECO 2023*</td>
<td>ECO 2013*</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>ACG 2021*</td>
<td>ACG 2071*</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
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<tr>
<td>Science</td>
<td>Science</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>Psy/Soc/Art</td>
<td>**Elective</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>**Elective</td>
<td>ECO 3401*</td>
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<tr>
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<td>3</td>
</tr>
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</table>

Junior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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</thead>
<tbody>
<tr>
<td>**GE 3031</td>
<td>FIN 3303</td>
</tr>
<tr>
<td>6</td>
<td>3</td>
</tr>
<tr>
<td>GEB 3356</td>
<td>FIN 3414</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>MAR 3023</td>
<td>ECO 3411</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3403</td>
<td>MAN 3025</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>BUL 3130</td>
</tr>
<tr>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

**Pass Computer Competency Exam in same term Cornerstone completed

Senior

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIN 3504</td>
<td>3</td>
</tr>
<tr>
<td>3</td>
<td>MAN 4720</td>
</tr>
<tr>
<td>ISM 3011</td>
<td>**Elective</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>FIN Elective</td>
<td>FIN Elective</td>
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<td>3</td>
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<td>3</td>
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<tr>
<td>**Elective</td>
<td></td>
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<tr>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

**General electives as required to reach 120 semester hours to include at least 60 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 60 hours outside Business Administration.

FOREIGN LANGUAGE COMBINATION (B.A.)

College of Arts and Sciences
Department of Foreign Languages & Literatures, CNH 523
http://pegasus.cc.ucf.edu/~forlang
E-mail: foreignlanguage@ucf.edu
C. E. Stebbins, 407-823-2472

Admission Requirements

- none

Placement in Language courses

- Placement in Foreign language courses is based on one year of high school language being equivalent to one semester of college work. Students must consult an advisor.
- Native 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.
- 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 Foreign 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 Residency Requirement consists of at least 21 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Foreign Languages and Literatures.
- Language credit by exam will not be given in courses lower in level than those in which studit 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

<table>
<thead>
<tr>
<th>(36 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
</tr>
<tr>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
</tr>
<tr>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
</tr>
<tr>
<td>3 hrs</td>
</tr>
<tr>
<td>Select MGF 1106 Finite Mathematics (may substitute a higher level math)</td>
</tr>
<tr>
<td>3 hrs</td>
</tr>
<tr>
<td>Prefer CGS 1060C Intro to Computer Sci or STA 1060C Statistics Using Excel</td>
</tr>
<tr>
<td>3 hrs</td>
</tr>
</tbody>
</table>

D. Social Foundations

| 6 hrs |

E. Science Foundations

| 6 hrs |

2. Common Program Prerequisites

<table>
<thead>
<tr>
<th>(0-12 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completion of Intermediate level of proficiency.</td>
</tr>
</tbody>
</table>

3. Core requirements-first language

<table>
<thead>
<tr>
<th>(24 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(French, German or Spanish)</td>
</tr>
<tr>
<td>Composition (select one)</td>
</tr>
<tr>
<td>3 hrs</td>
</tr>
<tr>
<td>SPN 3420* Spanish Composition</td>
</tr>
<tr>
<td>FSE 3420* French Composition</td>
</tr>
<tr>
<td>FRE 4422* Advanced French Composition</td>
</tr>
<tr>
<td>GER 3420* German Composition</td>
</tr>
<tr>
<td>Oral Communication (select one)</td>
</tr>
<tr>
<td>3 hrs</td>
</tr>
<tr>
<td>SPN 3760* Adv Spanish Oral Communication</td>
</tr>
<tr>
<td>FRE 3760* Adv French Oral Communication</td>
</tr>
<tr>
<td>FRE 4421* Adv French Conversation</td>
</tr>
<tr>
<td>GER 3760* Adv German Oral Communication</td>
</tr>
<tr>
<td>* A native or near-native speaker must substitute an alternate upper division language course in consultation with a departmental advisor.</td>
</tr>
</tbody>
</table>

4. Core requirements-second language

<table>
<thead>
<tr>
<th>(15 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>(French, German, Spanish, or Italian)</td>
</tr>
<tr>
<td>Composition (select one)</td>
</tr>
<tr>
<td>3 hrs</td>
</tr>
<tr>
<td>SPN 3420 , FRE 3420, GER 3420, ITA 3420</td>
</tr>
<tr>
<td>Advanced Oral Communication (select one)</td>
</tr>
<tr>
<td>3 hrs</td>
</tr>
<tr>
<td>SPN 3760, FRE 3760, GER 3760, or ITA 3760</td>
</tr>
</tbody>
</table>

5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or higher in at least 39 hrs of upper division Foreign Language courses.
- Students are required to satisfactorily complete a departmental exit exam.
- Computer Competency met by CGS 1060C or equivalent

6. Foreign Language Requirements

<table>
<thead>
<tr>
<th>(0-16 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admission: Met by Graduation requirements.</td>
</tr>
<tr>
<td>Graduation: Met by degree program requirements (four semesters or proficiency).</td>
</tr>
</tbody>
</table>

7. Electives

<table>
<thead>
<tr>
<th>(variable)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.</td>
</tr>
</tbody>
</table>

8. University Minimum Exit Requirements
FOREIGN LANGUAGE EDUCATION- FRENCH (B.S.)

College of Education
Department of Teaching and Learning Principles
407-823-5791
http://www.edcollege.ucf.edu/
Coordinator: Karen Venkler, 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 on file in the University Admissions Office passing scores on all parts of the College Level Academic Skills Test (CLAST)
- Present an overall GPA of 2.5
- Meet any special departmental requirements

Degree Requirements:
- Students should see an advisor

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. Cultural-Historical Foundations (9 hrs)
      ANH 2110 U.S. History 1492-1877
      AMH 2010 U.S. History 1877-Present
      PHI 101 Introduction to Philosophy
   C. Mathematical Foundations (6 hrs)
      MGF 1106 Finite Mathematics
      STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
      Select one:
      STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics
   D. Social Foundations (6 hrs)
      POS 2001 American National Government
      PSY 2012 General Psychology
   E. Science Foundations (6 hrs)
      PSC 1121 Physical Science
      Select one:
      ANT 2511 The Human Species or BSC 1005 Biological Principles
      BSC 1005L Biological Principles Laboratory
   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 The History of Art I or ARH 2051 The History of Art II or MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey
   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 2001 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 or GLY 1039 Geology and its Applications
      Select one associated science lab:
      BSC 1005L Biological Principles Laboratory or GEO 1200L Physical Geography Laboratory or PSC 1121L Physical Science Laboratory

3. 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
   Students in Schools
   RED 4043 Content Reading K-12

4. Internship I (ESE 3940) (3 hrs)
   - EDG 4323, EDF 4214, FLE 4314, FLE 4333, and at least 50% of all required foreign language courses must be completed before doing Internship I
   - See additional requirements listed under College of Education, Office of Clinical Experiences

5. Specialization Requirements (18 hrs)
   FLE 4333 For Lang Tch in the Secondary School
   FLE 4314 For Lang Tch in the Elementary School
   FLE 4780 French Phonetics and Diction
   FRE 3420 French Composition
   FRE 3330 French Grammar
   Select two upper division (3000 or 4000 level) courses in French

6. Upper Division Restricted Electives (6 hrs)
   Select two upper division (3000 or 4000 level) courses in French with advisor’s approval

7. Other Cognate Requirements (3 hrs)
   Select one of the following:
   LIN 3010 Principles of Linguistics or LIN 4643 Cross-Cultural Communication

8. Internship II (ESE 4943) (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
FOREIGN LANGUAGE EDUCATION- SPANISH (B.S.)

College of Education
Department of Teaching and Learning Principles
407-823-5791
http://www.edcollege.ucf.edu/
Coordinator: Karen Verkler, 407-823-5235,
E-mail: kverkler@mail.ucf.edu

3. Education Core Requirements (15 hrs)
EDG 4323 Professional Teaching Practices 3 hrs
EDF 4603 Analysis of Critical Issues in Education 3 hrs
EDF 4614 Classroom Learning Principles 3 hrs
TSL 4080 Theory and Practice of Teaching ESL 3 hrs
EME 2040 Technology for Educators 3 hrs

4. Internship I (ESE 3940) (3 hrs)
EDG 4323, EDF 4214, FLE 4314, FLE 4333, and at least 50% of all required foreign language courses must be completed before doing Internship I

5. Specialization Requirements (18 hrs)
FLE 4333 For Lang Tch in the Secondary School 3 hrs
FLE 4314 For Lang Tch in the Elementary School 3 hrs
SPH 4780 Spanish Phonetics 3 hrs
SPH 3420 Spanish Composition 3 hrs
SPW 3100 Survey of Spanish Literature I 3 hrs
SPW 3101 Survey of Spanish Literature II or 3 hrs
SPW 3110 Survey of Latin American Lit I or 3 hrs
SPW 3130 Survey of Latin American Lit II 3 hrs

6. Upper Division Restricted Electives (6 hrs)
Select two upper division (3000 or 4000 level) courses in Spanish with advisor's approval

7. Other Cognate Requirements (3 hrs)
Select one of the following: 3 hrs
LIN 3010 Principles of Linguistics or
LIN 4643 Cross-Cultural Communication or
FOL 3730 Romance Philology or
8. Internship II (ESE 4943) (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

Note: Internship II includes a 3 SH module on assessment

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)

Total Semester Hours Required 124 hours

FORENSIC SCIENCE-ANALYSIS TRACK (B.S.)

College of Arts and Sciences

Department of Chemistry, CH 329, 407-823-6205
http://www.cas.ucf.edu/chemistry/forensic.html
E-mail: chemistry@ucf.edu

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.
- 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 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (38 hrs)

A. Communication Foundations
- Communication Foundations 9 hrs

B. Cultural and Historical Foundations
- Cultural and Historical Foundations 9 hrs

C. Mathematical Foundations
- Select MAC 2253 Applied Calculus I
- Select STA 2023 Statistical Methods I

D. Social Foundations
- Social Foundations 6 hrs

E. Science Foundations
- Select PHY 2053C College Physics
- Select PHY 2053C College Physics
- Select PHY 2053C College Physics

2. Common Program Prerequisites (15 hrs)

BSC 2010C General Biology GEP
CHM 2045C* Chem Fund I 4 hrs
CHM 2046 & L Chem Fund II with Lab 4 hrs
MAC 2253* Applied Calculus I GEP
MAC 2254* Applied Calculus II 3 hrs
PHY 2053C* College Physics I GEP
PHY 2054C* College Physics II 4 hrs

*See Transfer Notes for possible substitutes

3. Core Science and Math Requirements (24 hrs)

BSC 2010C General Biology GEP
CHM 2120 Organic Chem. I 3 hrs
CHM 2121 L & L Organic Chem II with lab 5 hrs
CHM 3120C Analytical Chemistry 5 hrs
STA 1060C Statistics with Excel 3 hrs
STA 2023 Statistical Methods I GEP
PCB 3063 & L Genetics 4 hrs
PCB 3233 & L Immunology 4 hrs

4. Forensic Science Core

CHS 3501 Intro to Forensic Science 3 hrs
CHS 3505C Forensic Microscopy 4 hrs
CHS 4537 Forensic Lab Quality Assurance 2 hrs
CHS 3595 Foren So in the Courtroom 3 hrs
CHS 3533C Forensic Biochemistry I 3 hrs
CHS 4591 Forensic Science Internship 4 hrs

5. Forensic Analysis Track (28 hrs)

Required Courses (16 hrs)

CHM 3410 Physical Chemistry I 4 hrs
CHM 4130C Advanced Analytical Chemistry 4 hrs
CHS 3595C Forensic Investigating Techniques 4 hrs
CHS 3511C Trace Evidence 4 hrs

Select 6-12 hours from the following:

CHS 4560C Forensic Investigating Techniques 3 hrs
CHS 4515C Forensic Crime Scene Investigation 4 hrs
ANT 4521C Forensic Anthropology 5 hrs
MAC 4053 Biochemistry I 3 hrs
CHM 3212L Organic Lab Techniques II 2 hrs

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 STA 1060C, a Computer Science course, or by departmental assessment.
- American Board of Criminalists (ABC) exit exam must be taken prior to graduation.
- 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
FORENSIC SCIENCE-BIOCHEMISTRY TRACK (B.S.)

College of Arts and Sciences
Department of Chemistry, CH 223, 407-823-0163
http://www.cas.ucf.edu/chemistry/forensic.html
E-mail: chemistry@ucf.edu
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 1. (General Education Program) and 2. (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (38 hrs)
   A. Communication Foundations
      9 hrs
      9 hrs
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
      Select MAC 2253 Applied Calculus I
   D. Social Foundations
      6 hrs
   E. Science Foundations
      Select PHY 2053C College Physics (PR: MAC 1105 and MAC 1114) 4 hrs

2. Common Program Prerequisites (15 hrs)
   BSC 2010C General Biology
   CHM 2045C* Chem Fund I
   CHM 2046 & L Chem. Fund II with lab
   MAC 2253* Applied Calculus I
   MAC 2254* Applied Calculus II
   PHY 2053C* College Physics I
   PHY 2054C* College Physics II
   *See Transfer Notes for possible substitutes

3. Core Science and Mathematics Requirements (24 hrs)
   BSC 2010C General Biology
   CHM 2210 Organic Chem. I
   CHM 2211 & L Organic Chem. II with lab
   CHM 3120C Analytical Chemistry
   STA 1060C Statistics with Excel
   STA 2023 Statistical Methods I
   PCB 3063 & L Genetics
   PCB 3233 & L Immunology

4. Forensic Science Core (19 hrs)
   CHS 3501 Intro to Forensic Science
   CHS 3505C Forensic Microscopy
   CHS 4537 Forensic Lab Quality Assurance
   CHS 3595 Foren Sci in the Courtroom
   CHS 3533C Forensic Biochemistry I
   CHS 4591 Forensic Science Internship

5. Forensic Biochemistry Track (28 hrs)
   MCB 3020C General Microbiology
   BCH 4063 Biochemistry I
   BCH 4054 Biochemistry II
   BCH 4103L Biochemical Methods Lab
   PCB 3523 Molecular Biology I
   PCB 4524 Molecular Biology II
   BSC 3404C Quantitative Biological Methods
   CHS 4534C Forensic Biochemistry II
   CHS 4532 Interpretation of DNA Evidence

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 STA 1060C, a Computer Science course, or by departmental assessment.
   American Board of Criminalists (ABC) exit exam must be taken prior to graduation.
   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
   B. 60 semester hours earned after CLEP awarded
   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 hours of Summer credit (if applicable).

Total Semester Hours Required 124 hours
UCF Degree Programs

FRENCH (B.A.)

College of Arts and Sciences
Department of Foreign Languages & Literatures CNH 523, http://pegasus.cc.ucf.edu/~forlang
E-mail: foreignlanguage@ucf.edu
C. E. Stebbins, 407-823-2472

Admission Requirements

Placement in Language courses
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 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 Foreign 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 Foreign 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 3 hrs
   - Select 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 (0-14 hrs)
   - FRE 1120* Elen French Lang & Civ I 4 hrs
   - FRE 1121* Elen French Lang & Civ II 4 hrs
   - FRE 2200* Interm French Lang & Civ I 3 hrs
   - FRE 2201* Interm French Lang & Civ II 3 hrs
   * May be met by proficiency test or completion of FRE 2201

3. Core requirements (21 hrs)
   - FRE 3300* Advanced Grammar 3 hrs
   - FRE 3420* French Composition 3 hrs
   - FRE 4422 Advanced French Composition 3 hrs
   - FRE 3760* Adv French Oral Communication 3 hrs
   - 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
   - FRE 4780* French Phonetics and Diction 3 hrs
   - FOL 3730 Romance Philology 3 hrs
   *A native or near-native 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)
   - French courses 6 hrs
   - French courses 9 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
   - Computer Competency met by CGS 1060C or equivalent

6. Foreign Language Requirements (0-16 hrs)
   - Admission: Met by Graduation requirements.
   - Admission: 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 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: Spanish, Foreign Language Combination

Related Minors: French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian 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 for equivalency credit. The student must provide all supporting information.

GENERAL BUSINESS (B.S.B.A.)

College of Business Administration
BA 240, 407-823-2184
http://www.bus.ucf.edu
Faculty Advisor: B. Moore, BA 466, 407-823-5256, bmore@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
   - B. Cultural and Historical Foundations 9 hrs
   - C. Mathematical Foundations 9 hrs
   - Select MAC 1105 College Algebra 3 hrs

2. Related Minors: Chemistry, Molecular Biology and Microbiology

3. 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.

4. Acceptable Substitutes
   - PHY 2053 & 2054*: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211).
   - MAC 2253 & 2254*: may use MAC 2311 & 2312
   - CHM 2045C*: may use CHM 1040 plus CHM 1041 prior to transferring to UCF:

5. Related Programs: Chemistry, Forensic Science Analysis Track, Molecular Biology and Microbiology

6. Related Minors: Chemistry, Molecular Biology and Microbiology

7. Transfer Notes:
   - Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

8. Acceptable Substitutes
   - PHY 2053 & 2054*: Program admission requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211).

9. 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
   - Computer Competency met by CGS 1060C or equivalent

10. Foreign Language Requirements (0-16 hrs)
    - Admission: Met by Graduation requirements.
    - Admission: Met by Common Program Prerequisites.

11. Electives (variable)
    - Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

12. 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)

13. Total Semester Hours Required 120 hours

14. Related Programs: Spanish, Foreign Language Combination

15. Related Minors: French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian Area Studies, Spanish

16. 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.

17. TOTAL SEMESTER HOURS REQUIRED 120 HOURS
Select CGS 2100C Computer Fundamentals for Bus 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 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 EC03401. 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 Semester in the College of Business Administration:  
GEB 3031 Cornerstone 6 hrs  
GEB 3356 Introduction to Internation Business 3 hrs  
First or subsequent semesters depending on major:  
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 Info Sys 3 hrs  
MAN 2023 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.  
■ Students must take 60 semester hours in courses outside the College of Business.  
■ 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.

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 3131 Financial Accounting Concept  
ACG 3361 Intermediate Managerial Accounting  
TAX 4001 Federal Income Tax I  
Economics  
ECO 3223 Money and Banking  
ECP 3203 Contemporary Labor Economics  
ECP 4703 Managerial Economics  
Finance  
FIN 3303 Financial Markets  
FIN 3414 Intermediate Corporate Finance  
FIN 3504 Investment Analysis  
Management  
MAN 3301 Management of Human Resources  
MAN 4240 Organizations: Theory and Behavior  
Marketing  
MAR 3613 Marketing Research & Analysis  
MAR 3403 Sales Force Management  
MAR 4841 Service Marketing  
MAR 4156 International 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. General Business Track: International Business  
Required International Courses* 9-15 hrs  
ACG 4252 International Accounting  
ECO 4701 The Global Economy  
FIN 4604 International Financial Management  
MAN 4600 International Management  
MKT 4156 International Marketing  
Electives 9-18 hrs**  
GEB 4363 Export and Import Management  
GEB 4568 International Negotiations and Transactions  
INR 4035 International Political Economy***  
ANT 3212 Peoples of the World***  
Any Foreign Language 3000/4000 level****  
Any course from international electives in Economics  
* Required International + electives must add up to 27 hours  
** IB 2000 may be used for up to six credit hours. Other approved internship or independent studies may be used for up to three credit hours.  
*** Students must select no more than one of these electives  
Note: The College of Business Administration plans to discontinue this track within two years. Potential transfer students are advised to check with the College.

9. 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

10. 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 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)

11. Electives*** (variable)  
Total Semester Hours Required 120 hours  
***General electives as required to reach 120 semester hours to include at least 60 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 60 hours outside Business Administration.

GENERAL BUSINESS (B.S.B.A.)  
AS to BS TRACK  
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  
HAPA 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 - Limited Access  
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) (No TSD credit may be used for prerequisite courses)

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 prior to 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.

UCF Residency Requirement: 31 hours

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B</td>
<td>Cultural Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C</td>
<td>Mathematical Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select MAC 1105</td>
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<td></td>
</tr>
<tr>
<td>Select STA 2014C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>E</td>
<td>Science Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select BSC 2010C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select CHM 1032</td>
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2. Common Program Prerequisites

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>ZOO 3735C</td>
<td>Human Anatomy*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PCB 3703C</td>
<td>Human Physiology*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>STA 2014C</td>
<td>Statistics</td>
<td>GEP</td>
</tr>
<tr>
<td>CGS 2100C</td>
<td>Computer Science for Business*</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACG 2011</td>
<td>Principles of Financial Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACG 2071</td>
<td>Principles of Managerial Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>* see transfer notes</td>
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3. Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>HSC 3149</td>
<td>Introduction to Pharmacology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 3170</td>
<td>Health Care Finance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4109</td>
<td>Principles of Managed Care</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4193C</td>
<td>Health Care Automation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4700</td>
<td>Intro to Research in Health Prof</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSC 3531</td>
<td>Medical Terminology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSC 3640</td>
<td>Health Law</td>
<td>3 hrs</td>
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<tr>
<td>HSC 4590</td>
<td>Pathophysiologic Mechanisms</td>
<td>3 hrs</td>
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<tr>
<td>MAN 3025</td>
<td>Management of Organizations or Management</td>
<td>3 hrs</td>
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<tr>
<td>HSA 4180</td>
<td>Organization/Management for Health Agencies</td>
<td>3 hrs</td>
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<tr>
<td>HIM 3006</td>
<td>Foundations of Health Information Management</td>
<td>3 hrs</td>
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<tr>
<td>HIM 3116C</td>
<td>Health Record Organization &amp; Management</td>
<td>4 hrs</td>
</tr>
<tr>
<td>HSM 3806L</td>
<td>Professional Practice Exp. I</td>
<td>2 hrs</td>
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<tr>
<td>HSM 3816L</td>
<td>Professional Practice Exp. II</td>
<td>2 hrs</td>
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<tr>
<td>HIM 4226C</td>
<td>Coding Procedures I</td>
<td>5 hrs</td>
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<tr>
<td>HIM 4256C</td>
<td>Coding Procedures II</td>
<td>3 hrs</td>
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<tr>
<td>HIM 4676</td>
<td>Professional Development Issues in Health Information Management</td>
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<tr>
<td>HIM 4344C</td>
<td>Health Information Department</td>
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</table>

<table>
<thead>
<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>HIM 4506</td>
<td>Management</td>
<td>4 hrs</td>
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<tr>
<td>HIM 4835L</td>
<td>Performance Improvement</td>
<td>3 hrs</td>
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<tr>
<td>HIM 4837L</td>
<td>Professional Practice Exp. III</td>
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<tr>
<td>HIM 4838</td>
<td>Professional Practice Exp. IV</td>
<td>2 hrs</td>
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<tr>
<td>HIM 4856C</td>
<td>Management Affiliation</td>
<td>5 hrs</td>
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<tr>
<td>HIM 4656C</td>
<td>Health Information Management Systems</td>
<td>3 hrs</td>
</tr>
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</table>

4. Upper Division Restricted Electives

none

5. Departmental Exit Requirements

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

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 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)

Related Programs: Health Services Administration, Business, Computer Science

Related Minors: Health Services Administration, Business, Computer Science

Transfer Notes:

Community College Equivalents:

- Human Anatomy & Physiology I & II (BSC X085 and X086) 8

Statistics (STA 2014C or any other statistics course) 3

Computer Science for Business (CGS 1060C or any other computer science course) 3

Tentative Course Schedule for Entering Freshmen

Freshman Year

<table>
<thead>
<tr>
<th>Term</th>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ENC 1101</td>
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<tr>
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<td>CHM 1032</td>
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<td>HSC 2000</td>
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<tr>
<td></td>
<td>MAC 1105</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>PSY 2012 or SYG 2000</td>
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<td>or ANT 2000</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>POS 2014L or ECO 3013</td>
<td>3</td>
</tr>
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</table>

Plan your required nine summer hours into your course of study

Sophomore Year

<table>
<thead>
<tr>
<th>Term</th>
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<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>Fall</td>
<td>ACG 2021</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ZOO 3735C</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>ENC 1102</td>
<td>3</td>
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<tr>
<td></td>
<td>STA 2014C</td>
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<td></td>
<td>HSC 2000</td>
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<tr>
<td></td>
<td>BSC 2010C</td>
<td>4</td>
</tr>
<tr>
<td></td>
<td>EJH 2311 or HUM 2311</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or AMH 2010</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or ARH 2051</td>
<td>3</td>
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<tr>
<td></td>
<td>or MUL 2010</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>or THE 1020, REL 2300, PHI 2010, LIT 2110, LIT 2120</td>
<td>3</td>
</tr>
</tbody>
</table>

Summer

8 hrs

(Foreign Lang I) 4

(Foreign Lang II) 4

if not satisfied in high school

Junior Year

<table>
<thead>
<tr>
<th>Term</th>
<th>Courses</th>
<th>Hours</th>
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<tr>
<td>Fall</td>
<td>HSA 4193**</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HIM 4226C</td>
<td>5</td>
</tr>
</tbody>
</table>
HEALTH SCIENCES - ATHLETIC TRACK (B.S.)

College of Health and Public Affairs
HPA2 210, 407-823-3463
http://www.cohpa.ucf.edu/healthصر athletic
E-mail: dcassidy@mail.ucf.edu

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.
B. A minimum of 3.0 overall grade point average.
C. Completion of an AA degree from a Florida Community College; or completion of UCF’s General Education Program.
D. 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.
E. Consent of Program Director.
F. A minimum of 100 documented clock hours working, volunteering, or shadowing with a licensed athletic trainer prior to admission to the program.
G. No TSD credit may be used for prerequisite courses.

Technical Standards Requirement

The Athletic Training Educational Program 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 set forth by the Athletic Training Educational Program 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 Allied Health Education Programs [CAAHEP]). The following abilities and expectations must be met by all students admitted to the Athletic Training Educational Program. 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 NATABOC certification exam.

Candidates for selection to the Athletic Training Educational Program 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 athletic training educational program 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 it agrees that 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.

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
- The courses designated in sections 1 (General Education) and 2 (Core Requirements) should usually 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>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select MAC 1105</td>
<td></td>
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<tr>
<td>Select STA 2023</td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select POS 2041</td>
<td></td>
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<tr>
<td>Select PSY 2012</td>
<td></td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>BSC 2010C</td>
<td></td>
</tr>
<tr>
<td>CHM 2045C</td>
<td></td>
</tr>
</tbody>
</table>

2. Common Course Prerequisites (15 hrs)

The following courses are required before entering the professional phase of the athletic training program. Each of the required courses must have a grade of “C” (2.0) or better.

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2010C</td>
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</tr>
<tr>
<td>General Biology I and Lab</td>
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</tr>
<tr>
<td>ZOO 3733C</td>
<td>4 hrs</td>
</tr>
<tr>
<td>Human Anatomy</td>
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</tr>
<tr>
<td>PCB 3703C</td>
<td>4 hrs</td>
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<tr>
<td>Human Physiology</td>
<td></td>
</tr>
<tr>
<td>CHM 2045C</td>
<td>4 hrs</td>
</tr>
<tr>
<td>General Chemistry I</td>
<td></td>
</tr>
<tr>
<td>PHY 2035C</td>
<td>4 hrs</td>
</tr>
<tr>
<td>Coll Physics I (algebra based)</td>
<td></td>
</tr>
<tr>
<td>PHY 2048L</td>
<td></td>
</tr>
<tr>
<td>Physics for Scientists I (calcus based)</td>
<td></td>
</tr>
</tbody>
</table>
Sophomore Year
Fall 14 hrs  Spring 13 hrs
PHY 2053C 4  MUL 2010 or REL 2300 3
ZOO 3753C 4  or THE 2000 or PHI 2010 3
STA 2023 3  PCB 3703C 4
EUV 2000 or HUM 2211 3  or AMH 2010 or WOH 2012 3
or EUH 2001 or HUM 2230 3

Summer 11 hrs
PET 4603 3  (Foreign Lang I) 4
PET 4620C 2  (Foreign Lang II) 4
PET 4606 3  if not satisfied in high school
PET 4620C 2

Junior Year
Fall 13 hrs  Spring 13 hrs
PET 3602C 1  PET 3623C 2
PET 3602C 2  PET 3623C 1
PET 3620C 2
PET 4315C 3
PET 4315C 3
PET 4351 3
PET 4660C 3
PET 4672C 4
PET 4632C 1
PET 4632C 3
PET 4630C 1
PET 4630C 3
PET 4672C 1

Senior Year
Fall 11 hrs  Spring 13 hrs
PET 4623C 2  HSA 4700 3
PET 4623C 1
PET 4623C 3
PET 4632C 1
PET 4652C 1
PET 4652C 1
PET 4670C 4
PET 4670C 4

HEALTH SCIENCES - GENERALIST TRACK (B.S.)

Purposes of this degree - Provides an opportunity for credentialed health care professionals to expand scope of their education through completion of courses both within and outside of their discipline and to enable students considering a health services career to complete courses in several disciplines in order to make informed career decisions.

College of Health and Public Affairs
HPA2 210, 407-823-2369
Undergraduate Program Director: Thomas Falen
Web Address: http://www.cohpa.ucf.edu/health.pro

Admission Requirements none

Degree Requirements

- 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
- 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

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

Other related requirements include:
- Students are strongly encouraged to complete a foreign language sequence
- Science courses for the Generalist Track major require specific pre-requisites and corequisites

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:
- Aging studies Certificate, Business, Public Administration
- Related Minors: Business, Computer Sciences, Aging Studies, Information Systems, and Public Administration
- Courses leading to a Certificate in Aging Studies are appropriate. Electives in advanced scientific, clinical or quantitative subjects are also advisable.

Transfer Notes:
- General Biology with Lab (BSC 1010/L) 4 hrs
- Human Anatomy and Physiology I & II (BSC X093 and X094 or BSC X085 and X086) 8 hrs

Tentative Course Schedule for Entering Freshmen

Freshman Year
Fall 15 hrs  Spring 14 hrs
ENC 1101 3  ENC 1102 3
PSY 2012 3  POS 2041 3
HSC 2000 2  BSC 2010C 4
MAC 1105 3  MAC 1114 4
CHM 2045C 4

*Plan your required nine summer hours into your course of study
2. Common Program Prerequisites (0 hrs)

MAC 1105 College Algebra
GEP
STA 2014C Principles of Statistics or
GEP
STA 2023 Statistical Method I
BSC 2010C General Biology
GEP

3. Core Requirements - Lower Division (14 hrs)

CGS 2100C Computer Fundamentals for Business or
CGS 1060C Intro to Computer Science 3 hrs
STA 2014C Principles of Statistics
Eco 2023 Microeconomics
HSC 2000 Intro to the Allied Health Professions 2 hrs
MAC 1114 College Trigonometry

Core Requirements - Upper Division (48 hrs)

HIM 3006 Foundations of Health Info Mgmt
HSA 3122 US Healthcare Systems
HSA 4109 Managed Care
HSA 4120 Community Health Services
HSA 4180 Org & Mgt of Health Agencies or
PET 4660C Org & Admin of Athletic Training
HSA 4193 Health Care Automation
HSA 3210 Long Term Care Administration 3 hrs
HSA 4700 Health Science Research 3 hrs
HSC 3110C Medical Self Assessment 3 hrs
HSC 3531 Medical Terminology 3 hrs
HSC 3640 Health Law 3 hrs
HSC 4243 Analysis of Instruction 3 hrs
HSC 4564 Healthcare Needs of the Elderly or
HSC 4500 Epidemiology 3 hrs
HSC 4564 Healthcare Needs of the Elderly or
HSC 4563 Healthcare Ethics 3 hrs
HSC 3110C Medical Self Assessment 3 hrs
HSC 3531 Medical Terminology 3 hrs
HSC 4564 Healthcare Needs of the Elderly or
HSC 4563 Healthcare Ethics 3 hrs
HSC 3593C HIV Disease or
HSC 4008 Professional Development of the
HSC 4018 Patient Care Skills

4. Lower Level Electives (0-5 hrs)

Number of hours depends upon the number of foreign language
hours required

5. Upper Division Restricted Electives (0-15 hrs)

Up to 15 hours from related health science programs with depart-
mental approval

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 profi-
cency exam) prior to graduation.

Graduation: None

7. 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 and 3 above). An overall 2.0 GPA
must be attained for all coursework (see sections 1, 2, 3, and 4).

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 res-
didency 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:
The participating student may also consider applying for considera-
tion to one or more of the following undergraduate professional
degree options: Health Information Management, Athletic Training,
Cardiopulmonary Sciences, Radiologic Sciences, Health Services
Administration, Professional graduate study disciplines to which this
degree option might lead: Physical Therapy, Social Work, Health
Services Administration.

Related Minors: None

Transfer Notes:
Associate of Arts Degree recommended

Tentative Course Schedule for Entering Freshmen

Freshman Year
Fall 14 hrs  Spring 16 hrs
ENC 1101 3 ENC 1102 3
CGS 1060C or CGS 2100C 3 POS 2041 3
STA 2014C 3 STA 2014C or STA 2023 3
MAC 1105 3 MAC 1105 3
HSC 2000 2 ECO 2023 3

Sophomore Year
Fall 15 hrs  Spring 14/16 hrs
MAC 1114 3 MAC 1114 3
Spc 1600 3 or THE 2000 or PHI 2010 3
ECO 2023 3 STA 2014C or STA 2023 3
HSA 4180 or HUM 2211 3 Elective 3
HSA 3210 3 or AMH 2010 3
Foreign Lang I* or other 2/4 lower level courses
Foreign Lang II* or other 2/4 lower level courses

if not satisfied in high school. If foreign language is fulfilled through other than
classwork, student shall be required to complete 6-8 hours of lower division
elective classwork.

Junior Year
Fall 15 hrs  Spring 15 hrs
HSC 3110C 3 HSC 3110C 3
HSC 4243 or PET 4660C 3
HIS 3006 3 HSA 3210 3
HSC 4243 or PET 4660C 3
HSA 3122 3 HSC 4500 3
HSC 3531 3 HSA 4120 3
HSC 3640 3 HSC 4500 or HSC 4008 or
HSC 4008 3 or HSC 3593C 3

Senior Year
Fall 15 hrs  Spring 15 hrs
HSC 4700 3 HSC 4700 3
HSC 4564 or PHT 3259 3 HSA 4193 3
HSA 4193 3 HSC 4563 3
PET 4660C 3 Elective (if needed) 3
Elective (if needed) 3 Elective (if needed) 3

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 Oeıjen

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 complet-
ed 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
Select STA 2014C or 2023
D. Social Foundations 6 hrs
Select ECO 2023
E. Science Foundations 6 hrs

2. Common Program Prerequisites (9 hrs)
CGS 2100C     Computer Fund for Business Applications or
CGS 1060C     Intro to Computer Science     3 hrs
ECO 2023      Microeconomics                GEP
ACG 2021      Financial Accounting         3 hrs
ACG 2071      Managerial Accounting         3 hrs
STA 2014C or  Statistical Methods          GEP
STA 2023      

Students must earn a “C” (2.0) or better in each Common Program Prerequisite course.

3. Core Requirements (45 hrs)
   HSA 3122     U.S. Health Care Systems        3 hrs
   HSA 3170     Health Care Finance             3 hrs
   HSA 3210     Long Term Care Administration   3 hrs
   HSA 4109     Principles of Managed Care       3 hrs
   HSA 4120     Community Health Services       3 hrs
   HSA 4180     Organization and Management for  3 hrs
                 Health Agencies
   HSA 4193     Health Care Automation           3 hrs
   HSA 4502     Risk Management                 3 hrs
   HSA 4700     Health Science Research Methods 3 hrs
   HSC 3531     Medical Terminology              3 hrs
   HSC 3640     Health Law                       3 hrs
   HSC 3650     Epidemiology                    3 hrs
   HSC 4564     Health Care Needs of the Elderly 3 hrs
   HSC 4653     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 4566C   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

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: Aging Studies Certificate, Public Administration, Health Information Management
Courses leading to a Certificate in Aging Studies are appropriate.

Tentative Course Schedule for Entering Freshmen

Freshman Year
   Fall       14 hrs     Spring       15 hrs
   ENC 1101   3 hrs      ENC 3102   3 hrs
   PSY 2012 or SYG 2000 3 hrs

or ANT 2000   PSC 1121 or CHM 1020     3 hrs
   HSC 2000     3 hrs      MUL 2100 or THE 2000     3 hrs
   MAC 1105     3 hrs      or REL 2300 or PHI 2010     3 hrs
   Elective     3 hrs      SPC 1600         3 hrs

Summer       3 hrs
   CGS 2100C     3 hrs

*Plan your required nine summer hours into your course of study

Sophomore Year
   Fall       12 hrs     Spring       15 hrs
   ACG 2021   3 hrs      ECO 2023     3 hrs
   ECO 2023   3 hrs      STA 2023     3 hrs
   BSC 1005     3 hrs      HSA 3122     3 hrs
   EUH 2000 or HUM 2211 3 hrs     or AMH 2010 or WOH 2012  3 hrs
   or AMH 2020 or WOH 2022

   Elective     3 hrs

Summer       8 hrs
   (Foreign Lang I) 4 hrs
   (Foreign Lang II) 4 hrs
   if not satisfied in high school

Junior Year
   Fall       15 hrs     Spring       15 hrs
   HSA 4500   3 hrs      HSA 3170     3 hrs
   HSA 3210     3 hrs      HSA 4109     3 hrs
   HSA 3531     3 hrs      HSA 4193     3 hrs
   HSA 4120     3 hrs
   Elective     3 hrs
   Elective     3 hrs

Senior Year
   Fall       15 hrs     Spring       15 hrs
   HSA 3430   3 hrs      HSA 3430     3 hrs
   HSC 3640     3 hrs      HSC 4654     3 hrs
   HSC 4653     3 hrs      HSC 4564     3 hrs
   Elective     3 hrs
   Elective     3 hrs

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 Sciences
History Department, CNH 551,
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
   Students must compile a portfolio of their written work in history, completed inside and outside the classroom
   Students must complete 36 hours in history
   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 AMH 2010 US History: 1492-1877     3 hrs
      Select AMH 2020 US History: 1877-Present     3 hrs
      Select from GEP list     3 hrs
   C. Mathematical Foundations
Select MGF 1106 Finite Mathematics (3 hrs)
(may substitute a higher level math)
Preference for CGS 1060 Intro to Computer Sci (3 hrs)
D. Social Foundations (6 hrs)
E. Science Foundations (6 hrs)

2. Common Program Prerequisites (0 hrs)
AMH 2010* US History: 1492-1877
AMH 2020* US History: 1877-Present
*See Transfer Notes for possible substitutes

3. Core Requirements (9 hrs)
HIS 4150 History & Historians (3 hrs)
Select one sequence (6 hrs)
EHU 2000, 2001 Western Civilization I & II
WOH 2012, 2022 World Civilization I & II

4. Upper Division Restricted Electives (21 hrs)
(Must be taken within the History Department)
Select six hours of approved history courses within three of the four geographic regions.
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)

5. Departmental Exit Requirements
- Maintain a minimum GPA of 2.0 in upper division required coursework 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.
- Computer Competency met by completion of the major.
- Students must complete at least 18 of the required 36 History hours at UCF.

6. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement
Graduation: Two semesters or equivalent proficiency exam. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of historical interest.

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 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: Humanities
Related Minors: African-American Studies, American Studies, Asian Studies, History, Humanities, Latin American and Iberian Area Studies, Russian 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.

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 School of Hospitality Management
Classroom Building I, Room 302 407-823-2188
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

Degree Requirements
1. UCF General Education Program (36 hrs)
A. Communication Foundations
B. Cultural and Historical Foundations (9 hrs)
C. Mathematical Foundations
Select MAC 1015 Intermediate Algebra 3 hrs
Select CGS 2100C Computer Fundamentals for Bus or STA 2023 Statistical Methods I 3 hrs
D. Social Foundations
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 (3 hrs)
HFT 1000 Introduction to Hospitality/Tourism 3 hrs

3. Hospitality Management Core (49 hrs)
A. Fundamentals
HFT 3540 Guest Services Management 3 hrs
B. Managerial Tools (21 hrs)
HFT 2403 Hospitality Financial Accounting 3 hrs
HFT 3431 Hospitality Managerial Accounting 3 hrs
HFT 3500 Hospitality Marketing 3 hrs
HFT 2220 Hospitality Human Resource Mgmt 3 hrs
HFT 2444 Hospitality Information Systems 3 hrs
HFT 3600 Legal Environment in Hospitality 3 hrs
HFT 2995 Strategic Management in Hospitality Ind 3 hrs
C. Sectoral Studies (21 hrs)
HFT 2254 Lodging Operations 3 hrs
HFT 3221C Quantity Food Preparation 3 hrs
HFT 3700 Tourism Management 3 hrs
HFT 2750 Meetings/Convention/Exp Industry 3 hrs
HFT 3261 Restaurant Management 3 hrs
HFT 3273 Principles of Resort Time Sharing 3 hrs
HFT 4753 Theme Park and Attraction Mgmt 3 hrs
D. Internships (3 hrs)
HFT 3940 Practicum I 1 hr
HFT XXXX Practicum II 1 hr
HFT 4941 Practicum III 1 hr
E. Guest Lectures
HFT 3933 Distinguished Lectures in Hospitality Management 1 hr

4. Special School Requirements:
- 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 Final Exam Week only.
- Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management core courses or restricted electives at UCF.

5. Restricted Electives:
Students must take 18 credit hours of Hospitality Management coursework 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 (18 hrs)
Choose six advanced courses from the following list:

- HFT 3511 Convention & Conference Services 3 hrs
- HFT 3751 Event Management 3 hrs
- HFT 4266 Restaurant Brand Management 3 hrs
- HFT 4268 Case Studies in Restaurant Management 3 hrs
- HFT 4274 Vacation Ownership Resort Management 3 hrs
- HFT 4522 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs

H. Hospitality Financial Management and Technology (18 hrs)

- HFT 4442 Vacation Ownership Resort Reservations 3 hrs
- HFT 4453 Hospitality Facilities Planning & Design 3 hrs
- HFT 4473 Hotel Development Analysis 3 hrs
- HFT 4479 Product Development in Theme Parks and Attractions 3 hrs
- HFT 4532 Managing the Employee Experience in Theme Parks and Attractions Industry 3 hrs
- HFT 4537 Event Management 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, and 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

UCF Degree Programs

163
UCF Degree Programs

required in the UCF School 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.

Freshman

Fall | 15 hrs | Spring | 15 hrs
--- | --- | --- | ---
ENC 1101 | 3 | ENC 1102 | 3
Cul-Hist I | 3 | Cul-Hist II | 3
CGS 2100 | 3 | SPC 1600 | 3
HFT 1000 | 3 | HFT 2500 Hosp Marketing | 3
PSY 2012 or ANT 2000 | 3 | MAC 1105 College Algebra | 3

Sophomore

Fall | 15 hrs | Spring | 15 hrs
--- | --- | --- | ---
ECO 2013 or ECO 2023 | 3 | CulHist Foundation | 3
Science Foundation I | 3 | Science Foundation II | 3
HFT 2244 Lodging Ops | 3 | HFT 2403 Hosp Fin Acct | 3
HFT 2444 Hosp Info Sys | 3 | HFT 2220 Hosp Hum Res | 3
HFT 2750 MealConv/Exp | 3 | FSS 2212C Quant Food Prep | 3

Junior

Fall | 14 hrs | Spring | 16 hrs
--- | --- | --- | ---
HFT 3540 Guest Svs Mgmt | 3 | HFT 3700 Tourism Mgt | 3
HFT 3000 Legal Environ | 3 | HFT 3261 Restaurant Mgt | 3
HFT 3431 Hosp Mgr Acct | 3 | HFT 3273 Prin Res Tim Shr | 3
Hospitality Elective | 3 | Hospitality Elective | 3
HFT 3940 Practicum I | 1 | HFT XXXX Practicum II | 1
HFT 3933 Dist LECT in Hosp | 1 | HFT 4755 Theme Park Mgmt | 3

Senior

Fall | 15 hrs | Spring | 15 hrs
--- | --- | --- | ---
HFT 4941 Practicum III | 1 | HFT 4295 Strat Mgt in Hosp | 3
Hospitality Elective | 1 | Hospitality Elective | 3
Hospitality Elective | 3 | Hospitality Elective | 3
Unrestricted Electives | 8 | Unrestricted Electives | 6

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.

HUMANITIES (B.A.)

College of Arts and Sciences
Philosophy Department, CNH 411, http://www.cas.ucf.edu/philosophy/
E-mail: philosophy@ucf.edu
TBA, 407-823-2273

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 (3 hrs)

2. Humanities Foundations (TBA, 407-823-2273)
   http://www.cas.ucf.edu/philosophy/
   Philosophy Department, CNH 411, College of Arts and Sciences

3. Core requirements (24 hrs)

   Note: Appropriate special topics courses in philosophy or humanities may be substituted for some core courses with prior approval by the department advisor.

   Humanities Foundations (9 hrs)
   - HUM 3431: Ancient Humanities
   - HUM 3435: Medieval Humanities
   - HUM 3255: Modern Humanities
   - HUM 3251: Contemporary Humanities

   Humanistic/Religious Traditions (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
     - HUM 3553: Moses, Jesus, & Mohammed
     - ANT 3245: Native American Religions
     - JST 3401: The Jewish People I

   Applications (6 hrs)
   - Select two courses:
     - PHI 3893: Philosophy and Creativity
     - PHI 3033: Philosophy, Religion, and the Environment
     - PHM 3123: Feminist Theories
     - REL 3162: Healing: Culture, Art, and Praxis
     - HUM 4554: Religious Quest and the Human Dilemma
     - HUM 4330: Performance Theory
     - PHI 3022: Sexuality, Gender, and Philosophy
     - PHI 3638: Ethical Issues in the 21st Century
     - PHI 4321: Phi of Embodiment: Mind/Body/Self
     - REL 3XXX: Religion, Spirituality, and Popular Music
     - REL 3XXX: Religion, Philosophy, and Film

4. Upper division Restricted Electives (6 hrs)

   Select two courses from the above list that are not being used to satisfy Core Requirements and/or from the following:

   - HUM 3320: Contemporary Multicultural Studies
   - HUM 4301: Classical Ideal
   - HUM 4303: Spiritual Ideal
   - PHI 3700: Philosophy of Religion
   - PHI 3800: Aesthetics
   - PHI 4804: Critical Theory
   - CLA 3851: Comparative Mythology
   - CLA 3850: Classical Mythology

5. 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)

   - HUM 4903H: Honors Directed Readings (3 hrs)
   - HUM 4970H: Honors Thesis (3 hrs)

   Additional Requirements

   - Application and admission through the Humanities Honors Coordinator
   - 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

6. Departmental Exit Requirements

   Either HUM 4970H: Honors Thesis (3 hrs) or organization and submission of a portfolio (HUM 4393 - 1 hr) of one’s work in humanities to a Departmental committee for approval prior to graduation.
Courses transferred from private and out-of-state schools must meet by graduation 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 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:** Philosophy

**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.

**HUMANITIES - RELIGIOUS STUDIES TRACK (B.A.)**
College of Arts and Sciences
Philosophy Department, CNH 411,
http://www.cas.ucf.edu/philosophy/
E-mail: phildept@ucf.edu
Fax: 407-823-6658
TBA: 407-823-2273

**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)
- Communication Foundations 9 hrs
- Cultural and Historical Foundations 3 hrs
- Select HUM 2211 Humanistic Tradition I
- Select HUM 2230 Humanistic Tradition II
- Select REL 2300 World Religions 3 hrs
- Mathematical Foundations 6 hrs
- Select MGF 1106 Finite Mathematics (May substitute a higher level math)
- Prefer STA 1060C Statistics Using Excel 6 hrs

**2. Common Program Prerequisites** (none)

**3. Core requirements** (24 hrs)
Foundations in the Study of Religion and the Humanities
Select three courses, at least two must be from (a) Religion
(a) Religion
- PHI 3700 Philosophy of Religion
- POT 4632 Religion and Politics
- SYO 4200 Sociology of Religion
- REL 3131 Religion in America
- ANT 3241 Magic, Ritual, and Belief
(b) Humanities and Classics
- HUM 3431 Ancient Humanities
- HUM 3435 Medieval Humanities
- HUM 3255 Modern Humanities
- HUM 3251 Contemporary Humanities
- CLA 3850 Classical Mythology
- CLA 3881 Comparative Mythology

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
- HUM 3553 Moses, Jesus, and Mohammed
- JST 3401 The Jewish People I or II
- JST 3402
- ANT 3245 Native American Religions

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 3XXX Religion, Spirituality, and Popular Music
- REL 3XXX Religion, Philosophy and Film

**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 4303 Performance Theory
- PHI 2101 Critical Thinking
- PHI 4321 Philosophy of Embodiment: Mind/Body/Self
- PHI 3638 Ethical Issues in the 21st Century
- PHI 4341 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 humanities are strongly encouraged to take Honors in the Major. Requirements are as follows.

**Honors and Elective Requirements** (30 hours)
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
UCF Degree Programs

6. Departmental Exit Requirements
   - Either HUM 4970H: Honors Thesis (3 hrs) or organization and submission of a portfolio (HUM 4393 - 1 hr) of one's work in humanities to a Departmental committee for approval prior to graduation.
   - Earn a "C" (2.0) or better in each required course
   - Computer Competency met by HUM 4970H, HUM 4393, 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: Two semesters or equivalent proficiency exam. 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 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: Philosophy, Humanities, Liberal Studies
Related Minors: 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.

INDUSTRIAL ENGINEERING (B.S.I.E.)
College of Engineering and Computer Science
Industrial Engineering & Management Systems (IEMS) Department
ENG2 312, 407-823-2204, Fax: 407-823-3413
http://www.iems.ucf.edu/

Bill Thompson, E-Mail: wthompson@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; 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 9 hrs
   1. Take ENC 1101
   2. Take ENC 1102
   3. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs
   1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs).
      Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
   2. Take STA 3022 (3 hrs).
      Note: Calculus II is the prerequisite for this course.

C. Mathematical Foundations 7 hrs
   1. Take MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313.
   2. Note: MAC 2281 and STA 3022, the Humanities courses, and the Social Science courses.
   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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. Note: MAC 2281 and MAC 2311 do not satisfy major requirements.

D. Social Foundations 6 hrs
   1. Take ECO 2023 or ECO 2023.
   3. Take PHY 2048/48L.
   4. Prefer either GEO 1200 or GEO 2370.

3. Courses Required for the Major (62 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 1007C Engineering Concepts & Methods 1 hr
EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1111C Engineering Computer Graphics 2 hrs
EGN 1107C Engineering Concepts & Methods 1 hr
EGN 3271 Engineering Analysis - Statics 3 hrs
EGN 3285 Engineering Analysis - Dynamics 3 hrs
EGN 3363 Engineering Analysis - Statics 3 hrs
EGN 3210 Engineering Analysis & Computation 3 hrs
EGN 3353 Engineering Analysis - Statics 3 hrs
EGN 3221 Engineering Analysis - Dynamics 3 hrs
EGN 3365 Thermodynamics 3 hrs
EGN 3356 Structure & Properties of Materials 3 hrs
EGN 3973 Principles of Electrical Engineering 3 hrs
EGN 3613 Engineering Economic Analysis 2 hrs
EGN 4624 Engineering Administration 3 hrs
EGN 3340 Introduction to IE & MS 2 hrs
EGN 3330 Manufacturing & Design 2 hrs
ECH 3348 Principles of Cost Engineering 3 hrs
ECH 4125 IE Applications of Computers 3 hrs
ECH 4232 Human Engineering 3 hrs
ECH 4332C Industrial Control Systems 3 hrs
ECH 4364C Industrial Planning & Design 3 hrs
ECH 4231 Manufacturing Engineering 3 hrs
ECH 4342C Empirical Methods for IE 3 hrs
ECH 4233 Quality Engineering 3 hrs
ECH 4343C Operations Research 3 hrs
ECH 4523C Systems Simulation 3 hrs

2003-2004 Undergraduate Catalog
4. 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.

5. Departmental Graduation Requirements (6 hrs)

- EGN 4116C Systems Analysis & Design 3 hrs
- EIN 4891C IE Senior Design Project 3 hrs
- Take the Engineering Intern Exam during the 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 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division course work 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 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 semester hours of Summer credit (if applicable).

**Total Semester Hours Required:** 128 hours

**Related Programs:** Mechanical Engineering.

**Related Minors:** none

**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.

**Industrial Engineering - 128 semester hours required**

**FIRST YEAR**

**Fall**

- CHS 1440 Fund of Chm/Engrs 4
- EGN 1006C Eng Intro to Eng 1

**Summer**

- EGN 3310 Eng Anal-Statics 3
- EGN 3343 Thermodynamics 3

**SECOND YEAR**

**Fall**

- PHY 204L/205L Phys Engr/Sci I 4
- EGN 3310 Eng Anal-Statics 3
- EIN 3304 Intro to IE & Mgt Sys 2
- MAC 2311 Calc I 4

**Spring**

- EGN 3211 Eng Anal-Dynamics 3
- MAP 2202 Diff Equations 3
- STA 3022 Prob & Stats Ensrs 3
- MAC 2312 Calc II 4

**Summer**

- EGN 3385 Strctr & Prop Matls 3
- EGN 3613 Engnr Econ Analy 2
- MAC 2283 Microeconomics 3

**THIRD YEAR**

**Fall**

- EIN 3314C Work Meas & Desgn 3
- EIN 4118C IC Computer Appl 3
- ESI 4523C Systems Simulation 3

**Summer**

- EIN 3354 Princ of Cost Engnrng 3
- ESI 4312 Operations Research 3
- MAP 2302 Diff Equations 3

**Spring**

- EIN 4234C Human Engrng 3
- EIN 4391C IE Sr. Design Proj 3
- EIN 4116C Sys Anal & Dsgn 3

**FOURTH YEAR**

**Fall**

- Science Foundation II 3
- EIN 4116C Sys Anal & Dsgn 3
- ESI 4234 Quality Engineering 3
- EIN 4391C IE Sr. Design Proj 3

**Spring**

- *Cultural & History III 3
- *Cultural & History III 3
- *Cultural & History III 3
- *Cultural & History III 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.
3. Courses with a plus (+) are courses for which an appropriate graduate class substitution can be made. See advisor for accepted substitution list.

**INTEGRATED BS/MS DEGREE PROGRAM**

The IEMS department offers the Integrated BS/MS Program to students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BSIE requirements. See advisor for appropriate substitutions.

**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 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 faculty 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.

1. **UCF General Education Program**
   - Communication Foundations (nine hours completed in AS degree program) (36 hrs)
   - Cultural and Historical Foundations (3 hrs taken in AS degree program) (9 hrs)
   - Mathematical Foundations (completed in AS degree program) (6 hrs)
   - Social Foundations (6 hrs)
   - Science Foundations (6 hrs)

2. **Engineering Technology Core Courses**
   - ETI 3551C Computer Applications (3 hrs)
   - CET 3010 Intro to Info Technology (3 hrs)
   - STA 2023 Statistical Methods I (3 hrs)
   - ETI 4440 Applied Prq Mgmt (3 hrs)
3. Lower Level Required Courses Taken at Community College

(33 hrs)

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<th>Hours</th>
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<tr>
<td>CET 2364</td>
<td>Systems Applications in C</td>
<td>3 hrs</td>
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<tr>
<td>CET 3323C</td>
<td>Digital Technology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CET 2364</td>
<td>Systems Applications in C</td>
<td>3 hrs</td>
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4. Required Technical Courses

(21 hrs)

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<th>Course Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>CET 4427</td>
<td>Applied Database I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 3383</td>
<td>Applied Systems Analysis I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4505</td>
<td>Applied Operating Systems I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 3752</td>
<td>Intro to Telephony</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4483</td>
<td>Intro to Local Area Network</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4333</td>
<td>Computer Organization &amp; Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4748</td>
<td>Wide Area Networks I</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

5. Technical Electives

(12 hrs)

Choose four from the following:

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>CET 3198C</td>
<td>Digital Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4138</td>
<td>Digital Programmable Devices</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4931</td>
<td>Current Topics in Technology</td>
<td>3 hrs</td>
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<tr>
<td>CET 4749</td>
<td>Wide Area Network II</td>
<td>3 hrs</td>
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<td>MAP 3401</td>
<td>Problem Analysis</td>
<td>3 hrs</td>
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<tr>
<td>CET 4523</td>
<td>Applied Systems Analysis II</td>
<td>3 hrs</td>
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<tr>
<td>CET 4429</td>
<td>Applied Database II</td>
<td>3 hrs</td>
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<tr>
<td>CET 4593</td>
<td>Web Base Systems I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4584</td>
<td>Web Base Systems II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4663</td>
<td>Computer &amp; Networks Security</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 5937</td>
<td>Data Mining I</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

6. Departmental Exit Requirements

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. 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.

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
- 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: none

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**
- Humanities 3 hrs
- CET 3383 Appl Sys Anal I 3 hrs
- Social Science 3 hrs
- CET 3010 Intro to Info Tech 3 hrs
- CET 2364 Systems Apps in C 3 hrs
- Bio Science 3 hrs

**Spring**
- CET 3323C Digital Tech 4 hrs
- ENC 3241 Tech Rept Writing 3 hrs
- CET 4448 Applied Proj Mgmt 3 hrs

**Summer**
- CET 4333 Comp Org & Design 3 hrs
- ENC 3241 Writing for the Technical Professional 3 hrs
- CET 4448 Applied Proj Mgmt 3 hrs

**Senior Year**

**Fall**
- STAT 4145 Applied Statistics 3 hrs
- CET 4427 Appl Oper Sys I 3 hrs
- CET 4427 Appl Database I 3 hrs
- CET 4505 Intro to Telephony 3 hrs
- ETL 3651C Comp Appl 3 hrs
- Tech Elective 3 hrs
- Tech Elective 3 hrs

**Spring**
- CET 4505 Appl Oper Sys I 3 hrs
- CET 4427 Appl Database I 3 hrs
- CET 3752 Intro to Telephony 3 hrs
- STAT 2023 Statistical Methods I 3 hrs
- ETL 3651C Comp Appl 3 hrs
- CET 4748 Wide Area Networks I 3 hrs
- Bio Sci 3 hrs

**Information Technology (B.S.)**

College of Engineering and Computer Science

School of Electrical Engineering and Computer Science, CSB 201

E-mail: it@seecs.ucf.edu

http://it.seecs.ucf.edu

Undergraduate Coordinator: G. Marin 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 regularly-scheduled 3000-5000 level courses taken from the School of Electrical Engineering and Computer Science at UCF.
- 12 of the 24 Residency hours must be at the 4000-5000 level.

1. UCF General Education Program

(37 hrs)

- A. Communication Foundations
  - Select ENC 1101, ENC 1102
  - Prefer SPC 1016

- B. Cultural and Historical Foundations
  - 9 hrs

- C. Mathematical Foundations
  - Select MAC 2147 Math for Calculus
  - Select STA 2023, Statistical Methods I

- D. Social Foundations
  - Select ECO 2013 Microeconomics or
  - ECO 2023 Microeconomics

- E. Science Foundations
  - Select PHY 2053C College Physics
  - Select one additional science

2. Common Program Prerequisites

(3 hrs)

- MAC 2147 Math for Calculus
- STA 2023 Statistical Methods I
- ECO 2013 Microeconomics
- PHY 2053C College Physics
- PHI 3625 Ethics in Science and Technology

3. Core Requirements

(42 hrs)

- COP 3223 C Programming Language
- COP 3502C Computer Science I
- COP 3503C Computer Science II
- COP 3505 Object Oriented Programming
- MHF 2104 Foundations of Discrete Mathematics
- EEL 3041 Circuit Analysis
- EEL 3520 Information Theory
- CGS 3269 Computer Architecture Concepts
- CGS 2545C Database Concepts
- EEL 4882 Eng. Sys. SW (Operating Systems)
Students should consult with a departmental advisor.

Co-op or internship credit can be used in this major.

Students need to apply to the school office to enter this major.

Students who change degree programs and select this major.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students need to apply to the school office to enter this major.
- Co-op or internship credit can be used in this major.
- Students must consult with a departmental advisor.

4. Support Courses (6 hrs)

ENC 3241 Technical Report Writing 3 hrs
CRW 3013 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. Students are strongly advised to make this a cohesive set of courses. Many departments have plans whereby students 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 (17 hrs)

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 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 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: Computer Information Technology, Computer Science

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.

INTERPERSONAL COMMUNICATION (B.A.)

College of Arts and Sciences
Nicholson School of Communication, COM 258, 407-823-2852,
http://www.cas.ucf.edu/communication
E-mail: communication@ucf.edu
K. Phillip Taylor

Admission Requirements

Application to the Nicholson School of Communication needed.

Applying student must complete STA 2023 with a “C” (2.0) or better.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students need to apply to the school office to enter this major.
- Co-op or internship credit can be used in this major.
- Students must consult with a departmental advisor.

UCF Degree Programs

1. UCF General Education Program (36 hrs)

A. Communication Foundations
- Select ENC 1101 & 1102 Composition 6 hrs
- Select SPC 1600 Fund Oral Communication 3 hrs
B. Cultural and Historical Foundations
- 9 hrs
C. Mathematical Foundations
- Select MGF 1106 Finite Mathematics 3 hrs
- (may substitute a higher level math)
- Select STA 2023 Statistical Methods I 3 hrs
D. Social Foundations
- 6 hrs
E. Science Foundations
- 6 hrs

2. Common Program Prerequisites

SPC 1630 Fund Oral Communication GEP

3. Specific Program Prerequisites (12 hrs)

STA 2023 Statistical Methods I GEP
COM 3011C Communication & Human Relations 3 hrs
COM 3331 Communication Research Methods 3 hrs
Select one of the following:
- Select SPC 1600 Fund Oral Communication 3 hrs
- CGS 2100C Computer Fundamentals for Business
- CGS 2585C Desktop/Internet Publishing
- CGS 3175 Internet Applications
- PUR 4110C Public Relations Publications

4. Core requirements (12 hrs)

SPC 3301 Interpersonal Comm 3 hrs
SPC 4331 Nonverbal Communication 3 hrs
SPC 4426 Group Dynamics 3 hrs
SPC 4540 Attitudes and Communication 3 hrs

5. Electives (9 hrs)

Select from the following list:

- SPC 3513 Argumentation and Debate 3 hrs
- SPC 4350 Studies in Listening 3 hrs
- COM 3330 Computer Mediated Communication 3 hrs
- COM 3701 Humor in Communication 3 hrs
- COM 4014 Gender Issues in Communication 3 hrs
- COM 4461 Intercultural Communication 3 hrs
- COM 4462 Conflict Management 3 hrs
- COM 4941 Internship 3 hrs
- COM 3XXX Interviewing Principles and Practices 3 hrs
- COM 4XXX Health Communication 3 hrs
- COM 4XXX Family Communication 3 hrs
- COM 4XXX Communication and Aging 3 hrs
- COM 4XXX Comm Training and Development 3 hrs
- COM 4XXX Communication and Law 3 hrs

6. Upper Division Restricted Electives (9 hrs)

A minimum of nine upper division credit hours selected from Social Science courses in Anthropology, Criminal Justice, Legal Studies, Political Science, Psychology, Public Administration, and Sociology.

7. School Exit Requirements

- Achieve a “C” (2.0) or better GPA in required UCF Communication courses
- To avoid delaying graduation, you must request a review of requirements before registering for your last term
- Computer Competency met by a Computer Science course or by departmental assessment

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement
Graduation: One year or equivalent proficiency exam.

9. Electives (variable)

Select primarily from upper level courses. May be outside of the School of Communication.
### 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 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:** Organizational Communication

**Related Minors:** Organizational Communication

**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.

#### JOURNALISM (B.A.)

**College of Arts and Sciences**

**Nicholson School of Communication,**
COM 252, 407-823-2858,
http://www.cas.ucf.edu/communication

E-mail: journalism@ucf.edu

M. Santana

**Limited Access program**

**Admission Requirements**
- Students should apply to become Journalism majors only after completing all requirements for admission. Deadlines are:
  - October 1, 2003 for Spring 2004
  - February 2, 2004 for Summer 2004
  - July 1, 2004 for Fall 2004
- 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. The GPA cut-off for the previous acceptance cycle was 2.5.
- Admission is not strictly based on GPA.
- 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.
- Have acceptable keyboard skills.

**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. In addition, majors may obtain an off-campus internship with a commercial weekly or daily newspaper or with a magazine. To enroll for credit, 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. A maximum of 3 internship credit hours may be earned within the 120 required for graduation.
- 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 School of Communication.
- Students electing both a major and minor in the School must take the minor courses in excess of the 120 hours 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)

<table>
<thead>
<tr>
<th>A. Communication Foundations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select ENC 1101 &amp; 1102 Composition</td>
</tr>
<tr>
<td>Select SPC 1600 Fund Oral Communication</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. Cultural and Historical Foundations</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 hrs</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>C. Mathematical Foundations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select MGF 1106 Finite Mathematics</td>
</tr>
<tr>
<td>(may substitute a higher level math)</td>
</tr>
<tr>
<td>Select CGS 1060C Intro to Computer Sci or STA 2014C Principles of Statistics</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D. Social Foundations</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 hrs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>E. Science Foundations</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 hrs</td>
</tr>
</tbody>
</table>

#### 2. Common Program Prerequisites (0 hrs)

| SPC 1600 Fund Oral Communication | GEP |

#### 3. Core requirements (30 hrs)

| JOU 3004 History of American Journalism | 3 hrs |
| JOU 2100C* News Reporting | 3 hrs |
| JOU 3101* Advanced News Reporting | 3 hrs |
| JOU 3200* Editing I | 3 hrs |
| JOU 3202* Editing II | 3 hrs |
| JOU 4181* Public Affairs Reporting | 3 hrs |
| JOU 4300* Feature Writing | 3 hrs |
| MMC 4200 Mass Communication Law | 3 hrs |
| MMC 4602 Contemporary Media Issues | 3 hrs |
| PGY 3610C Photojournalism I | 3 hrs |

*Prerequisite: Grammar Proficiency Examination and Keyboard Proficiency Test required. Some courses may also require a minimum grade of “C” (2.0) in prerequisite courses.

#### 4. Upper Division Restricted Electives (3 hrs)

| JOU/PGY Elective | 3 hrs |

#### 5. Required Minor: (18 hrs minimum)

- 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 a 18-credit-hour area of concentration approved by the Faculty.

#### 6. School Exit Requirements
- Acceptance of portfolio by faculty
- 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 required UCF Journalism courses. This GPA does not include Restricted Electives in the major or other electives.
- Computer competency met by program admission test

#### 7. Foreign Language Requirements (0-8 hrs)

**Admission:** Met by graduation requirement

**Graduation:** One year or equivalent proficiency exam

#### 8. Electives (variable)

Select primarily from upper level courses, with school advisor’s approval. May be outside of the school.

#### 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:** 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
HPA I 311, 407-823-2603
http://www.cohpa.ucf.edu/crim jus/
Undergraduate Program Coordinator and Pre-Law Advisor: David Slaughter
E-mail: dslaught@mail.ucf.edu

Admission Requirements

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 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
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 (18 hrs)

PLA 3013 Law and the Legal System 3 hrs
PLA 3104 Legal Research 3 hrs
PLA 3155 Legal Writing 3 hrs
PLA 3201 Civil Practice and Procedure 3 hrs
PLA 3104 Property and Real Estate Law 3 hrs
PLA 4935 Capstone: Legal Issues 3 hrs

3. Core Requirements (18 hrs)

Select MGF 1106 3 hrs
Select CGS 1060C 3 hrs

4. Upper Division Restricted Electives (24 hrs)

24 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 requirement; 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)

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.

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

Freshman Year*

Fall 14/15 hrs Spring 12/13 hrs
ENC 1101 3 ENC 3102 3
PSY 2012 or SYG 2000 3
MGF 1106 3 ECO 2013 or POS 2041 3
For. Lang. I or B. S. option 3/4 For. Lang. II or B. S. option 3/4
PLA Elective 3 PLA Elective 3

*Plan your required nine summer hours into your course of study

Sophomore Year

Fall 15 hrs Spring 15 hrs
ANT 2511 or GLY 1030 3 PSC 1211 or CHM 1020 3
or GEO 1200 PLA 3013 3
SPC 1600 3 One Course: ARH 2050 3
EUH 2000 or HUM 2211 3 ARH 2051, MUL 2010, THE
or AMH 2010 3 1020, REL 2300, PHI 2010, 3
Elective 3 LIT 2110, LIT 2120 3
Elective 3 EUH 2001 or HUM 2230 3
or AMH 2020 3
Elective 3

Summer 3 hrs
Elective 3

Junior Year

Fall 15 hrs Spring 15 hrs
PLA 3104 3 PLA 3105 3
PLA 3201 3 PLA 3104 3
PLA Elective 3 PLA Elective 3
PLA Elective 3 PLA Elective 3
Supporting Elective 3 Supporting Elective 3

Senior Year

Fall 15 hrs Spring 15 hrs
PLA 3201 3 PLA 3201 3
PLA 3104 3 PLA 3104 3
PLA Elective 3 PLA Elective 3
PLA Elective 3 PLA Elective 3
Supporting Elective 3 Supporting Elective 3

UCF Degree Programs
UCF Degree Programs

PLA Elective 3  PLA 4935 3
Internship or PLA Elective 3  Internship or PLA Elective 3
Supporting Elective 3  PLA Elective 3
Elective/minor 3  Elective/minor 3
Elective/minor 3  Elective 3

LIBERAL STUDIES (B.A., B.S.)
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
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 and Interdisciplinary Studies in the College of Arts and Sciences and is designed for academic flexibility. It recognizes that there are many combinations of courses which 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 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
   A. Communication Foundations (36 hrs)
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
   Select MGF 1106 Finite Mathematics (3 hrs)
   Select STA 1060C Statistics Using Excel or STA 2014C Principles of Statistics (3 hrs)
   D. Social Foundations
   E. Science Foundations

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
Biological Sciences
Business
Communication
Computer Science
Education
Engineering
Health
Hospitality Management
Humanities
Languages
Letters
Mathematical Sciences
Physical Sciences
Public Affairs

4. Required Minor (18 hrs minimum)
   Student 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.

5. 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.

6. 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: One year college language or equivalent proficiency exam.
   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 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 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, 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.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit and 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.)

College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
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: computerscience@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 College of Arts and Sciences and is designed for academic flexibility. It recognizes that many combinations of courses meet the needs of individual students.

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 or internship credit cannot be used in this major
- Students must earn at least a "C" (2.0) in each restricted elective and minor course
- Students should consult with departmental advisors within both the Liberal Studies program and Computer Science 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 (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 6 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites

3. Required Minor in CIT (36 hrs)
   - Students must complete a minor in Computer Information Technology (CIT). See the CIT minor for requirements.

4. Restricted Electives (18 hrs)
   - Students must complete a minimum of 18 hours of approved courses in one Liberal Studies subject area from those listed below (excluding GEP courses) of which a minimum of nine hours must be UCF hours and a minimum of nine upper level hours
   - Students are strongly encouraged to take upper level courses in each area
   - See the Liberal Studies Advising Team for details regarding each area

   Arts
   Behavioral and Social Sciences
   Biological Sciences
   Business

Communication
Education
Engineering
Health
Hospitality Management
Humanities
Languages
Letters
Mathematical Sciences
Physical Sciences
Public Affairs

5. Program Exit Requirements
   - A grade of "C" or above (2.0) is required for each course taken in the subject areas and the CIT minor
   - Computer Competency is met by CIT minor.

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: One semester or equivalent proficiency exam, or one course with a multicultural dimension
   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 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: Computer Science, Liberal Arts Track, Environmental Studies Track, Women’s Studies Track, Digital Media

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 and for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

LIBERAL STUDIES - ENVIRONMENTAL STUDIES
TRACK (B.S.)

College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

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
- 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...
UCF Degree Programs

1. UCF General Education Program (36 hrs)
   (Note: The italicized courses fulfill both the program requirements and the GEP. These required selections may raise the total GEP hours.)
   A. Communication Foundations
      9 hrs
   B. Cultural and Historical Foundations
      9 hrs
   C. Mathematical Foundations
      6 hrs
      Select MAC 2311 Calculus
      (PR: MAC 1105 and MAC 1144 or equivalent)
      Select STA 2023 Statistical Methods I
   D. Social Foundations
      6 hrs
   E. Science Foundations
      6 hrs
      Select BSC 2010C General Biology
      Select CHM 2045C Chemistry Fundamentals
      (PR: High school chemistry or CHM 1031)

2. Common Program Prerequisites none

3. Core for Environmental Studies (23 hrs)
   (Note: PHY 2053C College Physics (PR: MAC 1105 and 1114 or equivalent) is required to complete the Environmental Sciences: Sciences concentration)
   A. Physical/Mathematical Sciences
      CHM 2045C Chemistry Fundamentals I & Lab GEP
      MAC 2111 Calculus (or equivalent) GEP
      CHM 2205 Introduction to Organic & Biochemistry 5 hrs
      Or MAC 2311 Calculus (PR: MAC 1105 and 1111 or equivalent)
   B. Life Sciences
      BSC 2010C General Biology GEP
      BSC 2011C General Biology (PR: BSC 2010C) 4 hrs
      PCB 3034 Principles of Ecology & Lab & 3034L (PR: BSC 2010C and BSC 2011C) 4 hrs
   C. Social Science & Humanities
      PHI 3640 Environmental Ethics 3 hrs
      SYD 4510 Environmental Sociology 3 hrs

4. Subject Area: Environmental Studies Fundamentals (16 hrs)
   IDS 3150 Foundations of Environmental Studies 3 hrs
   ECO 33303 Economics and the Environment 3 hrs
   GEO 3151C GIS for Environmental Studies & Lab 4 hrs
   or equivalent
   PUP 3203 Environmental Politics 3 hrs
   IDS 4156 Solving Environmental Problems 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 (PR: CHM 2210 & 2211)
   BCH 4054 Biochemistry II (PR: BCH 4053)
   BOT 3153C Local Flora
   BOT 4303C Entering the Kingdom
   BSC 4312C Marine Biology
   CHM 3120C Analytical Chemistry
   CHM 4615 Environmental Chemistry
   EES 3004 Environmental Systems
   ENV 3001 Introduction to Environmental Engineering
   ENV 3001 Intro to Env Engr
   MCB 3020C General Microbiology
   MCB 4603 Environmental Micro (PR: MCB 3020C) GEP

   PCB 3023 Molecular Cellular Biology
   PCB 4302C Physiochemical Limnology
   PCB 4303C Biological Limnology
   PCB 4723 Animal Physiology
   PCB 3314 Florida Natural History
   PCB 3314 Marine Biodiversity
   PCB 3063 Genetics
   PCB 3442 Florida Aquatic Ecology
   PCB 4683 Population Biol & Evolu
   (PR: PCB 3063)
   PCB 4723 Animal Physiology
   (PR: PCB 3023)
   PCB 5045C Conservation Biology
   (PR: PCB 3063)
   PCB 5326C Ecosystems of Florida
   ZOO 5815 Zoogeography
   (PR: 8 hours of ZOO)

   Values, Planning, & Policy Concentration
   Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.
   ANT 3541 Biobehavioral Anthropology
   BOT 3800 Ethnobotany
   ECO 4302 Economics of the Environment
   ECP 4603 Urban and Regional Economic Prob
   ECS 4013 Economic Development
   ENC 3211 Theory/Prc Tech Writing*
   ENC 3241 Writing/Technical Professional*
   EGN 4033 Technology and Social Change
   ETI 3671 Technology Economic Analysis
   ETI 4635 Technical Administration
   GEO 4131C Remote Sensing of Environment
   INR 4351 International Environmental Law
   PAP 4351 Issues in Environmental Program Mgmt
   PHI 3033 Philosophy, Religion, & the Envirm
   PHI 4400 Philosophy of Science
   PUP 4503 Government and 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
   PUP 4XXX GIS for Political Scientists
   PUP 4503 Government and Science
   STA 4163 Stat Methods II*
   STA 4164 Stat Methods III*
   STA 4165 Stat Methods II - Computer emphasis*
   STA 422 Sample Survey Methods*
   *Note: Not more than 9 of the 18 credits required can be taken in the "Modes of Analysis and Communication" area as identified by asterisks.

   Technology Concentrations
   Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.
   ETI 3671 Technical Economic Analysis
   ETI 4635 Technical Administration
   EGN 4033 Technology and Social Change
   EGN 4613 Science History
   EGN 4814 Technology in History
   EGN 4816 Technology Analysis
   EGN 4824 Energy & Society
   EGN 4825 Environment & Society

   Central Florida Environment Concentration
   Note: This subject area is available only to Liberal Studies - Environmental Studies track majors. A separate application for this specialization is required. GPA must be no lower than 3.5 in at least 30 upper division credits of this program, letters from two faculty sponsors, and an internship or an international experience tie to a government or non-profit agency, a business, or a faculty grant project.
   Students must take an internship and directed research for at least 18 credits total:
   IDS 4XXX Internship 6-9 hrs
   IDS 4XXX International Experience 3-6 hrs
   IDS 4XXX Directed Research 3 hrs
   IDS 4970H Thesis 3 hrs

6. Program Exit Requirements (0-8 hrs)
   A grade of "C" or above (2.0) is required for all courses taken in each of 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: One semester college language or equivalent proficiency exam, or one course with a multicultural dimension

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 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 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
■ Courses transferred from private and out-of-state schools must be evaluated for equivalency credit and 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.)
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

The Liberal Arts Track is an honors-linked Bachelor of Arts degree program available to students seeking an individualized, inter-disciplinary, non-traditional major. The degree program is administered by the Office of Liberal and Interdisciplinary Studies within 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 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 towards 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

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)

2. Core Program Prerequisites None

3. Core Requirements (6 hrs)
Approved course in ethics 3 hrs
Approved course in critical thinking 3 hrs

4. Restricted Electives (42 hrs)
Complete a minor from those offered within 18 hrs
UCF College of Arts and Sciences
Complete an approved individualized minor 24 hrs which must be developed with a Liberal Studies advisor

5. Program Exit Requirements (6 hrs)
IDS 49XX Directed Reading/Research 3 hrs
IDS 4970H Thesis 3 hrs

6. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement
Graduation: Two semesters of college language or equivalent proficiency exam.

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: 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
■ Courses transferred from private and out-of-state schools must be evaluated for equivalency credit and for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information
### LIBERAL STUDIES - WOMEN’S STUDIES TRACK (B.A.)

**College of Arts and Sciences**

**Liberal Studies Program, CNH 201**

**http://www.cas.ucf.edu/liberal_studies**

**E-mail: ls@mail.ucf.edu**

Liberal Studies Advising Team, 407-823-0144

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**Women’s Studies Program**

Liberal and Interdisciplinary Studies Office, CNH 201

**http://pegasus.cc.ucf.edu/~womenst/**

**E-mail: womenst@pegasus.cc.ucf.edu**

Lisa Logan, 407-823-6502

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Liberal Studies - Women’s Studies track is a broadly based interdisciplinary curriculum which leads to the Bachelor of Arts degree in Liberal Studies. The program is administered through the Office of Liberal and Interdisciplinary Studies, and the Women’s Studies Program in the College of Arts and Sciences.

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**Admission Requirements**

| none |

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**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 - Women’s Studies track at least one semester before graduation.
- Internship credit cannot be used in this track without prior permission.
- 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 track.
- 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 degree program and regularly thereafter.
- Courses designated in 1. (General Education Program) and 2. (Common Program Prerequisites) are usually completed in the first 60 hours.

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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 STA 1060C Statistics Using Excel or STA 2014C Principles of Statistics (may substitute a computer science or higher level statistics course)
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs

2. **Common Program Prerequisites**

   | none |

3. **Restricted Electives** (36 hrs)
   - Students must complete either the Womanist/Women of Color subject area or the Women’s Studies Cognate subject area
   - 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

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**First Study Area (or select Women's Studies Cognate Area)**

| (18 hrs) |

- **WST 3XXX** Women of Color/Women Studies 3 hrs
- **Select 15 hours from the following courses** (15 hrs)
  - AML 3614 Topics in African-American Literature
  - ANT 4308 Gender Issues in Latin America
  - ASH 4304 Women in China
  - LIT 3354 Ethnic Literature in America
  - SYD 3751 North American Indian Women Today
- Other courses approved by the Liberal Studies Advising Team

**Second Study Area (or select Womanist/Women of Color Area)**

| (18 hrs) |

- **Select 18 hours from the following courses:**
  - AML 3614 Topics in African-American Literature
  - AML 4261 Literature of the South
  - ANT 3212 Peoples of the World
  - CCJ 4463 Cultural Diversity in Criminal Justice
  - CCJ 4681 Domestic Violence and the Justice System
  - EUH 2242 Modern Europe and the First World War
  - EUH 5393C CHIV Disease: A Human Concern
  - LIN 4643 Cross Cultural Communication
  - LIT 3354 Ethnic Literature in America
  - LIT 5595 Feminist Theory*
  - PEM 2405 Self-Defense for Women and Men
  - PHI 3640 Environmental Ethics
  - PHI 3670 Ethical Theory
  - PHI 4300 Theories of Knowledge
  - PUB 3314 Minorities in Politics
  - SOP 2772 Sexual Behavior
  - SOP 3784 Psychology of Diversity
  - SYD 3700 Race and Ethnic Minorities in the U.S.
  - SYD 4100 Family Trends
  - SYD 4200 Sociology of Religion
  - SYP 3630 Sociology of Popular Culture
  - SYP 3650 Sociology and Sport
  - SYP 4734 Minority Aging
  - THE 3230 Cultural Diversity Through Theater
  - *Undergraduate students will need professor’s permission to register for graduate-level courses.

Other courses may be utilized for this area with the permission of the director.

- Relevant Special Topics courses are periodically offered through various departments; with prior approval from the Women’s Studies Director, some courses may substitute.

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**2nd Study Area (from those below)**

See the Liberal Studies Advising Teams for details regarding each area

- Arts
- Behavioral and Social Sciences
- Biological Sciences
- Business
- Communication
- Computer Science
- Education
- Engineering
- Health
- Hospitality Management
- Humanities
- Languages
- Letters
- Mathematical Sciences
- Physical Sciences
- Public Affairs

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**4. Required Minor**

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
- Computer Competency is met by CGS 1060C, STA 1060C, or departmental assessment

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**6. Foreign Language Requirements**

- **Admission-BA:** Met by graduation requirement
- **Graduation-BA:** One year college language or equivalent proficiency exam

Note: Students entering without having met the admission requirement must do so in order to graduate

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**7. Electives**

Students must complete 36 hours of electives and additional courses for a total of 120 hours

**8. University Minimum Exit Requirements**

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
First Semester in the College of Business Administration:
Common Body of Knowledge

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: 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
Courses transferred from private and out-of-state schools must be evaluated for equivalency credit and 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
BA 240, 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 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
   Select MAC 1105 College Algebra 3 hrs
   Select CGS 2100C Computer Fundamentals for Bus 3 hrs
   D. Social Foundations
   Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics
   Select one: PSY 2012, SYG 2000, ANT 2000 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 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)
   Common Body of Knowledge
   First Semester in the College of Business Administration:
   GEB 3031 Cornerstone 6 hrs
   GEB 3356 Introduction to Internship Business 3 hrs
   First or subsequent semesters depending on major:
   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:
   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.
   Students must take 60 semester hours in courses outside the College of Business.
   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. Majors
   Students may choose from four management track. Within the Management major, students can concentrate in 4 areas of study.
   Courses for each are outlined below:

   1. Human Resource Management Track (24 hrs)
      Required Courses (9 hrs)
      MAN 3301 Human Resource Management 3 hrs
      MAN 4240 Organizational Theory and Behavior 3 hrs
      BUL 4540 Employment Law 3 hrs
      Elective Courses (15 hrs)
      MAN 4101 Human Relations in Management 3 hrs
      MAN 4310 Personnel Issues 3 hrs
      MAN 4320 Recruitment and Selection 3 hrs
      MAN 4330 Compensation Administration 3 hrs
      MAN 4350 Training and Development 3 hrs
      MAN 4401 Labor Relations Management 3 hrs
      MAN 4941 Internship 3 hrs

   2. General Management Track (24 hrs)
      Required Courses (15 hrs)
      ISM 3530 Quality & Productivity Management 3 hrs
      MAN 4101 Human Relations in Management 3 hrs
      MAN 4240 Organizational Theory & Behavior 3 hrs
      MAN 4600 International Management 3 hrs
      MAN 4701 Business Ethics and Society 3 hrs
      Elective Courses (take three additional MAN courses) (9 hrs)
      MAN Elective 3 hrs
      MAN Elective 3 hrs
      MAN Elective 3 hrs

   3. Management Track: International Business
      Required Courses* 9 hrs
      MAN 4240 Organizations: Theory and Behavior 3 hrs
      GEB 4MMM Global Strategic Management 3 hrs
      MAN 3301 Management of Human Resources
      Required International Courses** 9-15 hrs
      ACG 4252 International Accounting 3 hrs
      ECO 4701 The Global Economy 3 hrs
      FIN 4004 International Financial Management 3 hrs
      MAN 4600 International Management 3 hrs
      MAR 4156 International Marketing
      Electives*** 3-9 hrs
      MAN 4101 Human Relations in Management 3 hrs
      MAN 4350 Training and Development 3 hrs
      MAN 4310 Personnel Management Issues 3 hrs
      MAN 4330 Compensation Administration 3 hrs
      MAN 4320 Human Resources Recruitment and Selection 3 hrs
      MAN 4401 Human Relations Management 3 hrs
      * Required for BSBA-MAN-IB track
      ** Required international + electives must add up to 18 hours
      *** IB 2000 may be used for up to six credit hours. Other approved internship or independent studies may be used for up to three credit hours.

   Note: the College of Business Administration plans to discontinue this track within two years. Potential transfer students are advised to check with the College.

5. 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.
   Students must take 60 semester hours in courses outside the College of Business.
   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. Majors
   Students may choose from four management track. Within the Management major, students can concentrate in 4 areas of study.
   Courses for each are outlined below:

   1. Human Resource Management Track (24 hrs)
      Required Courses (9 hrs)
      MAN 3301 Human Resource Management 3 hrs
      MAN 4240 Organizational Theory and Behavior 3 hrs
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      MAN 4330 Compensation Administration 3 hrs
      MAN 4350 Training and Development 3 hrs
      MAN 4401 Labor Relations Management 3 hrs
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      MAN 4600 International Management 3 hrs
      MAN 4701 Business Ethics and Society 3 hrs
      Elective Courses (take three additional MAN courses) (9 hrs)
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      MAN Elective 3 hrs
      MAN Elective 3 hrs

   3. Management Track: International Business
      Required Courses* 9 hrs
      MAN 4240 Organizations: Theory and Behavior 3 hrs
      GEB 4MMM Global Strategic Management 3 hrs
      MAN 3301 Management of Human Resources
      Required International Courses** 9-15 hrs
      ACG 4252 International Accounting 3 hrs
      ECO 4701 The Global Economy 3 hrs
      FIN 4004 International Financial Management 3 hrs
      MAN 4600 International Management 3 hrs
      MAR 4156 International Marketing
      Electives*** 3-9 hrs
      MAN 4101 Human Relations in Management 3 hrs
      MAN 4350 Training and Development 3 hrs
      MAN 4310 Personnel Management Issues 3 hrs
      MAN 4330 Compensation Administration 3 hrs
      MAN 4320 Human Resources Recruitment and Selection 3 hrs
      MAN 4401 Human Relations Management 3 hrs
      * Required for BSBA-MAN-IB track
      ** Required international + electives must add up to 18 hours
      *** IB 2000 may be used for up to six credit hours. Other approved internship or independent studies may be used for up to three credit hours.

   Note: the College of Business Administration plans to discontinue this track within two years. Potential transfer students are advised to check with the College.

4. Entrepreneurship Track

5. Foreign Language Requirements
   Admission: Two years of one foreign language in high school, or
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 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. 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 coursework 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 prerequisite 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 by 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.

<table>
<thead>
<tr>
<th>FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT MAJORS</th>
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<tbody>
<tr>
<td><strong>Freshman</strong></td>
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<tr>
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<tr>
<td>ENC 1101*</td>
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<td>CJS 2100C*</td>
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<td>Must complete nine hours in a summer semester</td>
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<td><strong>C</strong> (2.0) or better grade required in each class</td>
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<td>Student should choose to major in the two areas of study below</td>
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<td>*<strong>Elective</strong></td>
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<td>***General electives as required to reach 120 semester hours to include at least 60 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 60 hours outside Business Administration.</td>
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<table>
<thead>
<tr>
<th>GENERAL MANAGEMENT MAJOR</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Junior</strong></td>
</tr>
<tr>
<td>Fall</td>
</tr>
<tr>
<td>GEB 3031</td>
</tr>
<tr>
<td>15 hrs</td>
</tr>
<tr>
<td>ISM 3011</td>
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<tr>
<td>3</td>
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<tr>
<td><strong>Elective</strong></td>
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<td>3</td>
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<tr>
<td>MAR 3023</td>
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<td>3</td>
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<tr>
<td>ISM 3530</td>
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<td>ECO 3411</td>
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<td>3</td>
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<td>MAN 3025</td>
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<td>3</td>
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<td>FIN 3403</td>
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<td>3</td>
</tr>
<tr>
<td>BUL 3130</td>
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<tr>
<td>3</td>
</tr>
<tr>
<td><strong>Senior</strong></td>
</tr>
<tr>
<td>Fall</td>
</tr>
<tr>
<td>GEB 3356</td>
</tr>
<tr>
<td>15 hrs</td>
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<tr>
<td>MAN 4720</td>
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<tr>
<td>MAN 4400</td>
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<tr>
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<tr>
<td>MAN 4000</td>
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<tr>
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<tr>
<td>MAN 4701</td>
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<tr>
<td>MAN 4101</td>
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<tr>
<td>MAN 4240</td>
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<tr>
<td>3</td>
</tr>
<tr>
<td><strong>Elective</strong></td>
</tr>
<tr>
<td>3</td>
</tr>
<tr>
<td>**General electives as required to reach 120 semester hours to include at least 60 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 60 hours outside Business Administration.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MANAGEMENT INFORMATION SYSTEMS (B.S.B.A.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>College of Business Administration</td>
</tr>
<tr>
<td>BA 240, 407-823-2184</td>
</tr>
<tr>
<td><a href="http://www.bus.ucf.edu">http://www.bus.ucf.edu</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Admission Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Completion of the UCF General Education program or an AA degree from a Florida Public Community College</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Degree Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. UCF General Education Program (36 hrs)</td>
</tr>
<tr>
<td>A. Communication Foundations</td>
</tr>
<tr>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
</tr>
<tr>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
</tr>
<tr>
<td>9 hrs</td>
</tr>
<tr>
<td>Select MAC 1105 College Algebra</td>
</tr>
<tr>
<td>3 hrs</td>
</tr>
<tr>
<td>Select ECO 2100C Computer Fundamentals for Bus</td>
</tr>
<tr>
<td>3 hrs</td>
</tr>
<tr>
<td>E. Social Foundations</td>
</tr>
<tr>
<td>9 hrs</td>
</tr>
<tr>
<td>Select ECO 2103 Microeconomics</td>
</tr>
<tr>
<td>3 hrs</td>
</tr>
<tr>
<td>Select one: PSY 2012, SYG 2000, ANT 2000</td>
</tr>
<tr>
<td>3 hrs</td>
</tr>
<tr>
<td>F. Science Foundation</td>
</tr>
<tr>
<td>6 hrs</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>2. Common Program Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>Must be completed with a 2.5 or better.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3. Required for All Business Majors</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 hrs</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Common Body of Knowledge</th>
</tr>
</thead>
<tbody>
<tr>
<td>First Semester in the College of Business Administration:</td>
</tr>
<tr>
<td>GEB 3031 Cornerstone</td>
</tr>
<tr>
<td>6 hrs</td>
</tr>
<tr>
<td>GEB 3356 Introduction to Internation Business</td>
</tr>
<tr>
<td>3 hrs</td>
</tr>
<tr>
<td>First or subsequent semesters depending on major:</td>
</tr>
<tr>
<td>BUL 3130 Legal &amp; Ethical Environments of Business</td>
</tr>
<tr>
<td>3 hrs</td>
</tr>
</tbody>
</table>
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 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. 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.
- All College of Business Administration Common Body of Knowledge courses and 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 (21 hrs)
- ISM 3005 MIS Techniques 3 hrs
- ISM 4113 Information Systems Analysis & Design 3 hrs
- ISM 4130 Information Systems Implementation 3 hrs
- ISM 4212 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 self-paced course, excluding those listed in the minor.
  - Any 3000 or 4000 level Computer Science prefix course (CDS, CGS, COP, COIT).
- MAN 4240 Organizational Theory & Behavior 3 hrs

5. Required Courses (21 hrs)

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

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

Freshman
- Fall 15 hrs
  - ENC 1101* 3
  - Cult-Hist I* 3
  - MAC 1105* 3
  - **Elective 3
  - ***Elective 3
  - Total 15 hrs
- Spring 15 hrs
  - ENC 1102* 3
  - Cult-Hist II* 3
  - MAC 2104* 3
  - **Elective 3
  - ***Elective 3
  - Total 15 hrs

Sophomore
- Fall 15 hrs
  - ECO 2023* 3
  - ACG 2021* 3
  - Science 3
  - **Elective 3
  - Total 15 hrs
- Spring 15 hrs
  - ECO 2031* 3
  - ACG 2071* 3
  - Science 3
  - Total 15 hrs

Junior
- Fall 15 hrs
  - ACG 4401 3
  - Accounting Information Systems 3
  - Total 15 hrs
- Spring 15 hrs
  - ACG 4400 3
  - Global Business Management 3
  - Total 15 hrs

Senior
- Fall 15 hrs
  - ACG Elective 3
  - MAN 4720 3
  - FIN 4453 3
  - Total 15 hrs
- Spring 15 hrs
  - ACG Elective 3
  - MAN 4713 3
  - ECO 3411 3
  - Total 15 hrs

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UCF Degree Programs

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179
Students who change degree programs and select this major must adopt the most current catalog.

6. Restricted Electives (9 hrs)
- Minimum of 3 courses required
  - MAR 3323 Integrated Marketing Communication 3 hrs
  - MAR 3403 Sales Force Management 3 hrs
  - MAR 3880 E-Marketing 3 hrs
  - MAR 4156 International Marketing 3 hrs
  - MAR 4231 Retailing Management 3 hrs
  - MAR 4712 Healthcare Marketing 3 hrs
  - MAR 4724 Strategic Found. in Global e-Business 3 hrs
  - MAR 4841 Services Marketing 3 hrs
  - MAR 4841 Marketing Internship 3 hrs
* either MAR 4156 or MAR 4724 (not both) may be taken as an elective.

7. Marketing Track: International Business

Required Courses* 9 hrs
- MAR 3603 Consumer Behavior
- MAR 3613 Marketing Analysis and Research
- MAR 4803 Marketing Management

Required International Courses** 9-12 hrs
- ACG 4252 International Accounting
- ECO 4701 The Global Economy
- FIN 4604 International Financial Management
- MAN 4600 International Management
- MAR 4156 International Marketing or
- MAR 4724 Strategic Foundations in Global e-Business

Electives*** 3-9 hrs
- MAR 3323 Integrated Marketing Communication
- MAR 3391 Professional Selling
- MAR 3403 Sales Force Management
- MAR 3641 Marketing Intelligence
- MAR 3880 E-Marketing
- MAR 4231 Retailing Management
- MAR 4711 Sport Marketing
- MAR 4712 Healthcare Marketing
- MAR 4804 Marketing Strategy
- MAR 4841 Services Marketing
* Required for BSBA-MAN-IB track
** Required international + electives must add up to 18 hours
*** IB 2000 may be used for up to six credit hours. Other approved internship or independent studies may be used for up to three credit hours.

Note: the College of Business Administration plans to discontinue this track within two years. Potential transfer students are advised to check with the College.

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 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 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 - MARKETING

Freshman
- Fall
- ENC 1101* 3
- Cull-Hist I* 3
- SPC 1000 3
- ***Elective 3
- **Elective 3
- Must complete nine hours in a summer semester

Sophomore
- Fall
- ECO 2023* 3
- ACG 201* 3
- Science 3
- Psy/Soc/Ant 3
- ***Elective 3
- Earn at least a “C” (2.0) or better grade required in each class

- Spring
- ENC 1102* 3
- Cull-Hist II* 3
- Art/Math/Lit 3
- MAC 1105* 3
- CGS 2100C 3
- EMA 2003* 3
- EMA 2003* 3
- MAC 2311H 4 hrs
- MAC 2312H 4 hrs
- MAC 2313H 4 hrs
- MAC 2281H 4 hrs
- MAC 2282H 4 hrs
- MAC 2283H 4 hrs
- MAP 2302H 4 hrs

1. UCF General Education Program (36 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
     - Select MAC 2311 Calculus I 4 hrs
     - Select COP 3502C Computer Science I 4 hrs
   - D. Social Foundations 6 hrs
   - E. Science Foundations
     - Select BSC 2010C General Biology 4 hrs
     - Select PHY 2048 & L Physics for Sci & Eng I 4 hrs
   - *See Transfer Notes for possible substitutes

2. Common Program Prerequisites (11 hrs)
   - COP 3233 C Language 3 hrs
   - MAC 2311 Calculus I 4 hrs
   - MAC 2312 Calculus II 4 hrs
   - MAC 2313 Calculus III 4 hrs
   - BSC 2010C General Biology 4 hrs

3. Core requirements (48 hrs)
   - PHY 2049 & L Physics for Sci & Eng I & Lab 4 hrs
   - One course selected from
     - ENC 3241 Technical Report Writing 3 hrs
     - ENC 3310 Magazine Writing 3 hrs
     - ENC 3311 Advanced Expository Writing 3 hrs
     - STA 2023 Statistical Methods I 3 hrs
     - MTH 3302 Logic and Proof in Mathematics 3 hrs
     - MAP 2302 Differential Equations 3 hrs
     - MAS 3106 Linear Algebra 4 hrs
     - MAS 3105 is a prerequisite course
   - Select one course
     - MAD 4203 Combinatorics & Graph Theory 3 hrs
     - MAP 4103 Vector and Tensor Analysis 3 hrs
     - MAP 4307 Appl of Complex Variables 3 hrs
     - MAP 4363 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 I 3 hrs
     - STA 4322 Statistical Theory II 3 hrs
     - MAA 4226 Advanced Calculus I 4 hrs
     - COX 4500 Numerical Calculus 3 hrs
     - MAP 4103 Mathematical Modeling 3 hrs

4. Restricted Electives (10 hrs)
   - Applied Elective 3 hrs
     - Select from COP 4210, COP 4110, COP 5310, COP 5405, COP 5507, COP 5510, EGN 3310, EGN 3321, EGN 3343, EGN 3373
   - Upper division restricted
     - Upper division or graduate mathematics or statistics courses or from COP 5510 or COP 4210.
     - (MAC 2233, 2253, 2254 and MTH 4404 may not be used.)
     - Biological or physical sciences restricted
     - Select from PCB 3023, PCB 3034, PCB 3063, PCB 4302C, PCB 4303C, PCB 4723, CHM 3410,
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 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 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 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:
  - COP 3223* may use any programming language course with a COP prefix
  - BSC 2010C*: may use any laboratory BSC or CHM course which is designed for majors
  - PHY 2048*: may use any PHY course with a lab. However PHY 2048 is a prerequisite for PHY 2049 and must be taken

**MATHMATICS - COMPUTATIONAL TRACK (B.S.)**

**College of Arts and Sciences**

**Department of Mathematics, MAP 207, 407-823-6284**
http://math.ucf.edu

E-mail: math@mail.ucf.edu
H. Martin, Martin, COP 213F, 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, MAC 2218H, MAC 2282H, MAC 2283H, and MAP 2302H.

**Admission Requirements**

**Degree Requirements**
- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, 2312, 2313 (or MAC 2281, 2282, 2283), and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Students must complete one full sequence of calculus; either Calculus with Analytic Geometry (MAC 2311, 2312, 2313) or Calculus for Engineers and Scientists (MAC 2281, 2282, 2283). Only complete calculus sequences will be accepted.

- 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**

(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
  - Select MAC 2311 Calculus I 4 hrs
  - Select COP 3502C Computer Science I 3 hrs
- D. Social Foundations 6 hrs
- E. Science Foundations
  - Select BSC 2010C General Biology 4 hrs
  - Select PHY 2048 & L Physics for Sci & Engr I 4 hrs

2. **Common Program Prerequisites**

(11 hrs)

- COP 3222* C Language 3 hrs
- MAC 2311** Calculus I GEP
- MAC 2312** Calculus II 4 hrs
- MAC 2313** Calculus III 4 hrs
- BSC 2010C* General Biology GEP
- PHY 2048&L Physics for Sci & Eng I w/lab 4 hrs

*See Transfer Notes for possible substitutes

*At UCF the calculus sequence MAC 2281, 2282, 2283 is preferred as a substitute for the sequence MAC 2311, 2312, 2313. However, students who plan to transfer to another institution within the SUS may want to take the sequence MAC 2311, 2312, 2313 to ensure transferability.

3. **Basic Core Requirements**

(10 hrs)

- COP 3502C Computer Science I GEP
- PHY 2048&L Physics for Sci & Eng I w/lab 4 hrs
- STA 2023 Statistics Methods I 3 hrs
- MAP 2302 Differential Equations 3 hrs

4. **Advanced Core Requirements**

(42 hrs)

- Select one course
  - MHF 3302 Logic and Proof in Mathematics 3 hrs
  - COP 3300C Intro to Discrete Structures 3 hrs
  - ENC 3241 Technical Report Writing 3 hrs
  - MAS 3106 Linear Algebra 3 hrs
  - MAD 2023 Combinatorics & Graph Theory 3 hrs
  - MAP 4307 Appl of Complex Variables 3 hrs
  - MAP 4363 Appl Boundary Value Prob I 3 hrs
  - STA 3212 Statistical Theory I 3 hrs
  - MAP 4364 Appl Boundary Value Prob II 3 hrs
  - COP 3503C Computer Science II 3 hrs
  - STA 3432 Statistical Theory II 3 hrs
  - MAD 4206 Advanced Calculus I 3 hrs
  - COP 4500 Numerical Calculus 3 hrs
- Select one course 3 hrs
  - MAP 4103 Mathematical Modeling
  - MAP 4153 Vector and Tensor Analysis

5. **Restricted Electives**

(18 hrs)

Select six upper division courses
- COP 3402C Systems Software 3 hrs
- COP 3530C Computer Science III 3 hrs
- CDA 4150 Computer Architecture 3 hrs
- COP 4202 Programming Languages I 3 hrs
- COP 4600 Operating Systems 3 hrs
- COP 4212 Discrete Computational Structures 3 hrs
- or any MAA, MAD, COP, 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 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: 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 course which is designated for majors.
- PHY 2048*: may use any PHY course with a lab; however, PHY 2048 is a prerequisite for PHY 2049 which must be taken.

MATHMATICS - ENGINEERING/ PHYSICS TRACK (B.S.)
College of Arts and 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, MAC 2281H, MAC 2282H, MAC 2283H, 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, 2312, 2313 (or MAC 2281, 2282, 2283), and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Students must complete one full sequence of calculus; either Calculus with Analytic Geometry (MAC 2311, 2312, 2313) or Calculus for Engineers and Scientists (MAC 2281, 2282, 2283).
- Only complete calculus sequences will be accepted.
- 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 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
- Communication Foundations

B. Cultural and Historical Foundations 9 hrs
- Cultural and Historical Foundations

C. Mathematical Foundations
- Select MAC 2311 Calculus I
- Select COP 3502C Computer Science I

D. Social Foundations 6 hrs
- Social Foundations

E. Science Foundations
- Select BSC 2010C General Biology
- Select PHY 2048 & L Physics for Sci & Engr I

2. Common Program Prerequisites (11 hrs)

COP 3223* C Language
MAC 2311** Calculus I GEP
MAC 2312** Calculus II
MAC 2313** Calculus III
BSC 2010C* General Biology

*See Transfer Notes for possible substitutes
**At UCF the calculus sequence MAC 2281, 2282, 2283 is preferred for the
Engineering and Physics majors as a substitute for the sequence MAC 2311,
2312, 2313. However, students who plan to transfer to another institution within
the SUS may want to take the sequence MAC 2311, 2312, 2313 to ensure
transferability.

3. Basic Core Requirements (10 hrs)

Select one course
- COP 3502C Computer Science I GEP
- PHY 2049AL Physics for Sci & Eng I w/lab

4. Advanced Core Requirements (54 hrs)

Select one course
- MTH 3302 Logic and Proof in Mathematics
- COT 3100C Intro to Discrete Structures
- MAP 4303 Mathematical Modeling
- EML 3034 Modeling Meth in Mech. & Aero Eng
- PHZ 3151 Computer Methods in Physics
- MAP 4313 Vector and Tensor Analysis
- MAP 4363 Appl of Complex Variables
- MAP 4364 Appt Boundary Value Prob II
- MAA 4226 Advanced Calculus I
- EGN 3321 Engineering Analysis - Dynamics
- EGN 3420 Engineering Analysis
- EGN 4350 Numerical Calculus
- MAF 4103 Linear Algebra
- MAD 4203 Combinatorics & Graph Theory
- EGN 3310 Engineering Analysis - Statics
- PHY 3221 Mechanics I
- EGN 3373 Principles of Electrical Engineering
- PHY 3101 Physics for Eng & Sci III
- CHS 1440 Fund. of Chemistry for Eng.
- CHM 2046C Chemistry Fundamentals
- or any MAA, MAD, MAP, MAS, or MTG course
- Select one course
- EGN 3358 Thermo-Fluids-Heat Transfer
- PHY 3503 Thermal & Statistical Physics
- or any MAA, MAD, MAP, MAS, or MTG course
- Select one course
- EML 3701 Fluid Mechanics
- CWR 3201 Engineering Fluid Mechanics
- PHY 3101 Physics for Eng & Sci III
- (PHY 3101 may be selected only if EGN3373 is also taken)
- EGN 4118C Industrial Applications of Computers
- PHZ 3113 Intro. to Theoretical Methods of Physics
- or any MAA, MAD, MAP, MAS, or MTG course
- Select one course
- EGN 3331 Mechanics of Materials
- CHM 2046 Chemistry Fundamentals II
- ESI 4312 Operations Research
- EML 3601 Solid Mechanics
- EML 4220 Vibration Analysis
- EEL 3004 Electrical Networks
MATHEMATICS - PURE TRACK (B.S.)

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 designed with an H such as MAC 2311H, MAC 2312H, MAC 2313H, MAC 2281H, MAC 2282H, MAC 2283H, and MAP 2302H.

Admission Requirements

Students must earn at least a "C" (2.0) in each required course. Students who change degree programs and select this major must adopt the most current catalog.

All mathematics courses except MAC 2311, 2312, 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 should take MAS 3105 (Elementary Linear and Matrix Algebra) before taking MAS 3106 (Linear Algebra). MAS 3105 will then be used as a free elective.

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 hrs)

(For: 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
   Select MAC 2311 Calculus I
   4 hrs
   Select COP 3502C Computer Science I
   3 hrs

D. Social Foundations
   6 hrs

E. Science Foundations
   Select BSC 2010C General Biology
   4 hrs
   Select PHY 2048 & L Physics for Sci & Eng I
   (PR: MAC 2311)
   4 hrs

2. Common Program Prerequisites (11 hrs)

   COP 2223* C Language
   3 hrs
   MAC 2311 Calculus I
   GEP
   MAC 2312 Calculus II
   4 hrs
   MAC 2313 Calculus III
   4 hrs
   BSC 2010C* General Biology
   GEP
   PHY 2048* & L Physics for Sci & Eng I & Lab
   *See Transfer Notes for possible substitutes
   GEP

3. Core requirements (48 hrs)

   PHY 2049 & L Physics for Sci & Eng II & Lab
   4 hrs
   One course selected from
   ENC 3241 Technical Report Writing
   ENC 3310 Magazine Writing
   ENC 3311 Advanced Expository Writing
   3 hrs
MATHEMATICS EDUCATION (B.S.)

College of Education
Department of Teaching and Learning Principles
ED building, second floor, 407-823-5791
http://www.edcollege.ucf.edu/
Coordinator: Doug Brumbaugh, 407-823-2045,
E-mail: brumbad@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 four parts of the CLAST examination
- Complete prerequisite courses

Degree Requirements
- Students should see an advisor

1. UCF General Education Program (37 hrs)

   A. Communication Foundations (9 hrs)
      ENC 1101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
      ENC 2108 Fundamentals of Oral Communication 3 hrs

   B. Cultural-Historical Foundations (9 hrs)
      AMH 2010 U.S. History 1492-1877 3 hrs
      AMH 2020 U.S. History 1877-Present 3 hrs
      PHI 2010 Introduction to Philosophy 3 hrs

   C. Mathematical Foundations (7 hrs)
      MAC 2311 Calculus with Analytic Geometry I 4 hrs

   D. Social Foundations (6 hrs)
      POS 201 American National Government 3 hrs
      PSY 212 General Psychology 3 hrs

   E. Science Foundations (6 hrs)
      PSC 1121 Physical Science 3 hrs
      Select one:
      ANT 2511 The Human Species or
      BSC 1005 Biological Principles
      Select one:
      FIL 1001 Cinema Survey
      Select one:
      MAC 2311 Calculus with Analytic Geometry I
      MAC 2312 Calculus with Analytic Geometry II 4 hrs
      STA 2023 Statistical Methods I 3 hrs

   Total Semester Hours Required 120 hours

2. Common Program Prerequisites (31 hrs)

   A. Communications (9 hrs)
      ENC 1101 Composition I
      ENC 1102 Composition II
      ENC 2108 Fundamentals of Oral Communication

   B. Humanities (6 hrs)
      PHI 2010 Introduction to Philosophy 3 hrs
      Select one:
      ARH 2050 The History of Art I or
      ARH 2051 The History of Art II or
      MUL 2100 Enjoyment of Music or
      THE 2000 Theatre Survey or
      FIL 1001 Cinema Survey

   C. Mathematics (11 hrs)
      MAC 2311 Calculus with Analytic Geometry I
      MAC 2312 Calculus with Analytic Geometry II 4 hrs
      STA 2023 Statistical Methods I

   D. Social Science/Social Science History (12 hrs)
      AMH 2010 U.S. History 1492-1877
      AMH 2020 U.S. History 1877-Present
      POS 201 American National Government
      PSY 212 General Psychology

   E. Science (10 hrs)
      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 or
      GY 1030 Geology and Its Applications
      Select one associated science lab:
      BSC 1005L Biological Principles Laboratory or
      GEO 1200L Physical Geography Laboratory or
      PSC 1121L Physical Science Laboratory

   F. Education Courses (9 hrs)
      EDF 2005 Introduction to Education 3 hrs
      EDG 2701 Teaching Diverse Populations 3 hrs
      EME 2040 Technology for Educators 3 hrs

   G. Diversity Courses
      Select one:

   H. Other Program Prerequisites (4 hrs)

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 course which is designed for majors.
  - PHY 2048*: may use any PHY course with a lab. However PHY 2048 is a prerequisite for PHY 2049 and must be taken...
3. Education Core Requirements (15 hrs)
   ■ EDC 4323 Professional Teaching Practices 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

4. Internship I (ESE 3940) (3 hrs)
   ■ EDG 4323 and at least 50% of all required mathematics courses must be completed before doing Internship I
   ■ See additional requirements listed under College of Education, Office of Clinical Experiences

5. Specialization Requirements (37 hours)
   ■ MAC 2313 Calculus with Analytic Geometry III 4 hrs
   ■ Note: student should consult advisor regarding course options.

6. Internship II (ESE 4943) (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

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 State Board of Education 6A-5.065
   ■ Pass 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 128 hours

11. MECHANICAL ENGINEERING (B.S.M.E.)
    College of Engineering and Computer Science
    Mechanical, Materials & Aerospace Engineering Department, ENGR 307, 407-823-5828,
    A. H. Hagedoorn, ENGR 307, E-Mail: hagedorn@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; 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 must 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 9 hrs
   1. Take ENC 1101
   2. Take ENC 1102
   3. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs
   1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs).

   Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
   2. Take STA 3032 (3 hrs).

   Note: Calculus II is the prerequisite for this course.

D. Social Foundations 6 hrs
   1. Take ECO 2013 or ECO 2023.

E. Science Foundations 7 hrs
   1. Take PHY 2048/48L.
   2. Take PHY 2049/49L.

   Note: Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2292 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. Note: MAC 2281 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

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. All engineering students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2281 Calculus for Scientists and Engineers I, must continue with MAC 2292 and MAC 2283. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable. Note: MAC 2281 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

186
3. Courses Required for the Major (49 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. Independent study courses generally do not satisfy major requirements and normally are awarded grades of 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
EGN 3385 Structure & Properties of Materials 3 hrs
EGN 3373 Principles of Electrical Engineering 3 hrs
STA 3032 Probability & Statistics for Engineers 3 hrs
EML 3034 Modeling Methods in MIAE 3 hrs
EML 3303C Mechanical Enginering Measurements 3 hrs
EML 3312C Feedback Control 3 hrs
EML 3500 Machine Design & Analysis 3 hrs
EML 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 4595C Introduction to CAD/CAM 3 hrs

Select one of the following three options for your senior year to complete your BSME. See your ME advisor for assistance in making this selection.(15 hrs)

a. Energy Systems Option

EML 3101 Thermodynamics of Mechanical Sys 3 hrs
EML 4304C Thermo-fluids Measurements 2 hrs
EML 4701 Fluid Mechanics II 3 hrs
Restricted Mechanical Systems Elective 3 hrs
Approved Electives 8 hrs

b. Mechanical Systems Option

EML 3012C Experimental Techniques in Mechanics & Materials 2 hrs
EML 3262C Kinematics of Mechanisms 3 hrs
EML 3804C Digital Control in Mechanotics 3 hrs
Restricted Energy Systems Elective 3 hrs
Approved Electives 8 hrs

c. Materials Option

EML 3012C Experimental Techniques in Mechanics & Materials 2 hrs
EML 3124 Structure & Properties of Alloys 3 hrs
EML 4223 Deformation & Fracture of Materials 3 hrs
Restricted Mechanical Systems Elective 3 hrs
Approved Electives 8 hrs

4. Departmental Graduation Requirements (6 hrs)

- EML 4501C Engineering Design I or
  - EGN 4XX1 Interdisciplinary Design I
  3 hrs
- EML 4502C Engineering Design II or
  - EGN 4XX2 Interdisciplinary Design II
  3 hrs
- CECS encourages all engineering students to take the Engineering Intern 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 assigned academic advisor 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 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 semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hours

Related Programs: Aerospace Engineering, Industrial Engineering.

Related Minors: Space Studies.

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 1930 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 faculty advisor to develop and maintain an appropriate plan of study.

Mechanical Engineering - 128 semester hours required

**FIRST YEAR**

**Fall**

15 hrs

- EGN 1006C Intro to Eng Prof 1 hr
- EGN 3310 Eng Anal-Statics (PR: EML 3701) 3 hrs
- STA 3032 Probability & Statistics for Engineers GEP 3 hrs
- Approved Elective 2

**Spring**

15 hrs

- EGN 1111C Eng Comp Graph 2 hrs
- MAP 2302 Diff Equations 3 hrs
- EGN 3373 Prin of Elec Engr 3 hrs
- Approved Elective 3

SECOND YEAR

**Fall**

15 hrs

- EML 3601 Solid Mechanics (PR: EGN 3310, CR: MAC 2302) 3 hrs
- EML 3701 Fluid Mechanics I (PR: MAP 2302, EGN 3345) 3 hrs
- EML 3312C Feedback Cont (PR: EGN 3321, 3373, MAP 2302) 3 hrs
- EML 3303C Mech Engr Meas (PR: EML 3001, EGN 3345) 3 hrs
- *Science Foundations 2 3

**Spring**

15 hrs

- EML 3601 Solid Mechanics (PR: EGN 3310, CR: MAP 2302) 3 hrs
- EML 3701 Fluid Mechanics I (PR: MAP 2302, EGN 3345) 3 hrs
- EML 3312C Feedback Cont (PR: EGN 3321, 3373, MAP 2302) 3 hrs
- EML 4404C Inter Design I (PR: EML 3500, 3701) 3 hrs

THIRD YEAR

**Fall**

15 hrs

- EML 3601 Solid Mechanics (PR: EGN 3310, CR: MAP 2302) 3 hrs
- EML 3701 Fluid Mechanics I (PR: MAP 2302, EGN 3345) 3 hrs
- EML 3312C Feedback Cont (PR: EGN 3321, 3373, MAP 2302) 3 hrs
- EML 3404C Inter Design II (PR: EGN 4XX1C) 3 hrs
- Approved Elective 3

**Spring**

15 hrs

- EML 4404C Inter Design II (PR: EGN 4XX1C) 3 hrs
- EML 4405C CAD/CAM (PR: EGN 4XX1C) 3 hrs
- *Core & Hist Foundations 3

FOURTH YEAR

**Fall**

14 hrs

- EML 3101 Thermo Mech Sys (PR: EGN 3345) 3 hrs
- EML 4703 Fluid Mechanics II (PR: EML 3701) 3 hrs
- EML 4501C Eng Design I or
  - EGN 4XX1C Inter Design I
  3 hrs
- EGN 4XX1C Inter Design I (PR: EML 3500, 3701) 3 hrs

**Spring**

14 hrs

- EML 4502C Eng Design II or
  - EGN 4XX1C Inter Design II
  3 hrs
- EML 4404C Inter Design II (PR: EGN 4XX1C) 3 hrs
- EGN 4404C Meas Therm Sys (PR: EML 3303C, 4142) Approved Elective 3

* Core & Hist Foundations 3
**UCF Degree Programs**

**II. MECHANICAL SYSTEMS OPTION**

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<th>Fall</th>
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<td>EML 4502C Eng Design II or</td>
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<td>EGN 4XX2 Inter Design II</td>
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<td>EML 3804C Mechtronics</td>
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**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. All students must remain in the Calculus sequence with which they begin. Students who begin with MAC 2311 Calculus with Analytical Geometry I, must continue with MAC 2312 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable.
3. Students should consult with the MMAE Department in ENGR 381 for a list of approved technical electives that may be substituted for specified BS requirements. See advisor for appropriate substitutions.

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**III. MATERIALS OPTION**

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<th>14 hrs&lt;sup&gt;1,2&lt;/sup&gt;</th>
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<td>*Cultural &amp; Hist Foundations</td>
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</table>

**Notes:**
1. Students should consult with the MMAE Department in ENGR 381 for a list of approved technical electives that may be substituted for specified BS requirements. See advisor for appropriate substitutions.

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**Important Notice**

- **Bolded** course should be taken in the term noted or in a previous term if your schedule permits and as long as all prerequisites for that course have been met.
- A number of bolded courses are given only during the term noted in this program of study, therefore it is imperative that you take them in the suggested sequence. Failure to do so may result in a considerable delay in the date of your graduation.
- Non-bolded course may be taken at any time as long as all prerequisites for that course have been met. Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites.
- Please meet with your advisor if you have any questions regarding your schedule. Do not drop any course before discussing this action with your advisor - there may be alternative actions which will benefit you.
- If you do not have a higher level programming language background you must take a course in this area prior to taking EML 3034 (*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.

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**Integrated BS/MS Degree Program**

The Mechanical, Materials, and Aerospace Engineering Department offers the Integrated Electives Program to students of high academic standing. This program allows up to nine graduate hours to be substituted for specified BS requirements. See advisor for appropriate substitutions.

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**MEDICAL LABORATORY SCIENCES (B.S)**

**College of Health and Public Affairs**

HPA 2 335, 407-823-2968

http://www.cooha.ucf.edu/molec.bio/

*Undergraduate Program Director: Dorilyn Hitchcock*

E-mail: hitchcod@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.
- **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) (No TSD credit may be used for prerequisite courses)

**Degree Requirements**

- The Medical Laboratory Sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS) 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

**1. UCF General Education Program**

<table>
<thead>
<tr>
<th>38 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
</tr>
<tr>
<td>B. Cultural Historical Foundations</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
</tr>
<tr>
<td>Select MAC 1105</td>
</tr>
<tr>
<td>Select CMS 2100C and STA 2023</td>
</tr>
<tr>
<td>D. Social Foundations</td>
</tr>
<tr>
<td>E. Science Foundations</td>
</tr>
<tr>
<td>Select BSC 2101C</td>
</tr>
<tr>
<td>Select CHM 2045C</td>
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**2. Common Program Prerequisites**

<table>
<thead>
<tr>
<th>25 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2101C</td>
</tr>
<tr>
<td>CHM 2045C, 2046</td>
</tr>
<tr>
<td>STA 2023</td>
</tr>
<tr>
<td>ZOO 3733C</td>
</tr>
<tr>
<td>CHM 2210, 2211</td>
</tr>
<tr>
<td>MCB 3020C</td>
</tr>
<tr>
<td>PCB 3703C</td>
</tr>
</tbody>
</table>

* see Transfer Notes
### UCF Degree Programs

#### College of Health and Public Affairs

**HPA2  335, 407-823-5932**

http://www.cohpa.ucf.edu/molec.bio/

Chair: P. E. Kolattukudy

E-Mail: pkolattu@mail.ucf.edu

**MOLECULAR BIOLOGY AND MICROBIOLOGY (B.S.)**

**Admission Requirements**

**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 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- No TSD credit may be used for major requirements
- Grades below “C-” (1.75) in life science courses will not be accepted

- 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**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
<td></td>
</tr>
<tr>
<td>B. Cultural Historical Foundations</td>
<td>9 hrs</td>
<td></td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>6 hrs</td>
<td></td>
</tr>
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</table>

**2. Common Program Prerequisites**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2010C</td>
<td>General Biology I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>BSC 2011C</td>
<td>General Biology II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHM 2045C, 2046</td>
<td>General Chemistry I, II, + Lab</td>
<td>8 hrs</td>
</tr>
<tr>
<td>CHM 2210</td>
<td>Organic Chemistry I, II, + Lab</td>
<td>10 hrs</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>Calculus with Analytical Geometry I</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

**3. Core Requirements**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCB 3020C</td>
<td>General Microbiology</td>
<td>5 hrs</td>
</tr>
</tbody>
</table>

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### Tentative Course Schedule for Entering Freshmen

**Fall Year**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 2041 or ECO 2013</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>CHM 2211</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>4 hrs</td>
<td></td>
</tr>
<tr>
<td>PCB 3703C</td>
<td>4 hrs</td>
<td></td>
</tr>
</tbody>
</table>

**Spring Year**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUH 2000 or HUM 2211</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>PCB 3703C</td>
<td>4 hrs</td>
<td></td>
</tr>
</tbody>
</table>

**Summer Year**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUL 2010 or THE 2000</td>
<td>3 hrs</td>
<td></td>
</tr>
</tbody>
</table>

**Degree Requirements**

- 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.

- Total Semester Hours Required: 126 hours

- Related Programs: Molecular Biology and Microbiology, Biology, Chemistry

- Related Minors: Biology, Chemistry

- Transfer Notes:

  - Community College Equivalencies
  - Human Anatomy and Physiology I & II (BSC 2093C and 2094C)

- Tentative Course Schedule for Entering Freshmen

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>MAC 1105</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>SPC 1600</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>CGS 2100C</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>STA 2023</td>
<td>3 hrs</td>
<td></td>
</tr>
</tbody>
</table>

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### 3. Core Requirements

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCB 3020C</td>
<td>General Microbiology</td>
<td>5 hrs</td>
</tr>
</tbody>
</table>
To be eligible for a major in Molecular Biology and Microbiology:

5. Departmental Exit Requirements (81-91 hrs)
   - 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 take a comprehensive test during their last semester.

6. Electives (variable)
   - Suggested Elective: SLS 2311 - Overview of Selected Medical Careers, recommended for students pursuing any of the following fields: chiropractic, dental, medical, optometry, pharmacy, podiatry, or veterinary.

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 hours

Related Programs: Biology, Chemistry
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 University and Human Anatomy and Human Physiology I &II requirement at the community college (lowerdivision) level must take an additional 8 eight hours of upper division coursework at UCF.

Honors in the Major
   - Application and admission through the department and THC
   - 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)

*Note: Those students interested in pursing graduate or professional education are strongly advised to select the following courses.

- Physics for Scientists and Engineers I & II (PHY 2048, 2049, 2048L, 2049L); Applied Calculus I & II (MAC 2253, 2254) or Calculus with Analytic Geometry I & II (MAC 2311, 2312).
- Directed Research MCB 4912 is offered on an S/U basis.

Tentative Course Schedule for Entering Freshmen

Freshman Year

**Fall**
- ENC 1101 3
- MAC 1105 3
- MCB 3020C 5
- MAC 1114 3
- SLS 2311* 1
- BSC 2010C 4

**Spring**
- ENC 1102 3
- MAC 1105 3
- CHM 2210 3
- CHM 2211 3
- MAC 2253 4/3
- MCB 3020C 5
- MCB 3020C 5
- BSC 2901C 3

**Sophomore Year**

**Fall**
- ENC 2013 or POS 2041 3
- MAC 2111 or MAC 2253 4/3
- PCB 3233L 3
- PCB 3233L 3
- ECO 2013 or POS 2041 3

**Spring**
- ENC 2014 or POS 2041 3
- MAC 2253 4/3
- PCB 3233L 3
- PCB 3233L 3
- ECO 2013 or POS 2041 3

**Junior Year**

**Fall**
- Restrictive Elective 3
- PCB 3233L 3
- PCB 3233L 3
- Restrictive Elective 3
- ECO 2013 or POS 2041 3

**Spring**
- Restrictive Elective 3
- Restrictive Elective 3
- Restrictive Elective 3
- Restrictive Elective 3
- Restrictive Elective 3

**Senior Year**

**Fall**
- BCH 4053 3
- Restrictive Elective 3
- SPC 1600 3
- Elective 3
- Elective 3

**Spring**
- Restrictive Elective 3
- Restrictive Elective 3
- Restrictive Elective 3
- Restrictive Elective 3
MOTION PICTURE TECHNOLOGY
(See FILM)

MUSIC (B.A.)
College of Arts and Sciences
Department of Music, CNH 205A,
http://pegasus.cc.ucf.edu/~ucfmusic
E-mail: music@mail.ucf.edu
TBA; 407-823-2869, 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/styles.
- 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, a string bass, or timpani for these auditions.
- The audition 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.
- Departmental Residency Requirement; at least 25 hours must be taken from the UCF Music department.
- Each student must perform a faculty-approved public recital.
- 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 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 one two-semester sequence
- 6 hrs
- Select MUH 4212 History and Literature II
- 3 hrs

C. Mathematical Foundations
- 6 hrs
- Select MGF 1100 Finite Mathematics
- 3 hrs
- (may substitute a higher level math)
- Prefer STA 1060C Statistics Using Excel
- 3 hrs

D. Social Foundations
- 6 hrs

E. Science Foundations
- 6 hrs

2. Common Program Prerequisites (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 IIA
- 2 hrs

MUT 2117* Music Theory IIB
- 2 hrs

MUT 2246* Ear Training & Sight Singing IIA
- 1 hr

MUT 2247* Ear Training & Sight Singing IIB
- 1 hr

MUN XXXX Major Ensembles (four semesters)
- 4 hrs

(See Specialty requirements for specific requirements and for the credits required)

MVB/MKV/MVP/

MVS/MVM/MVV/MVW
- Performance (four semesters)
- 8 hrs

MVK 1111-2121* Class Piano I-II
- 0-2 hrs

(or proficiency)

*See Transfer Notes for possible substitutes

3. Core Requirements (14 hrs)

Piano proficiency
- 0 hrs

MUS 1010 Music Forum (six semesters)
- 0 hrs

MVK 2051 20th Century Musical Analysis
- 3 hrs

MVB/MKV/MVP/

MVS/MVM/MVV/MVW Performance
- 4 hrs

MUN XXXX Major Ensembles
- 2 hrs

MUG 3104 Basic Conducting
- 2 hrs

MUH 4211 History & Literature I
- 3 hrs

MUH 4212 History & Literature II
- GEP

4. Specialty Requirements: (10 hrs)

Piano
- MUL 3400 Piano Literature I
- 2 hrs

MUL 3401 Piano Literature II
- 2 hrs

Ensemble
- MUN 3453 Piano
- 2 hrs

Restricted Electives
- 4 hrs

Voice
- FRE 1005 French Diction
- 1 hr

GER 1005 German Diction
- 1 hr

ITA 1005 Italian Diction
- 1 hr

MUL 3603 American/English Song Lit
- 1 hr

MUL 3604 German Song Literature
- 1 hr

MUL 3605 French Song Literature
- 1 hr

Restricted Electives
- 4 hrs

Woodwinds
- Minor Ensemble MUN XXXX
- 2 hrs

Woodwind Literature
- 2 hrs

Restricted Electives
- 6 hrs

Brass
- Minor Ensemble MUN XXXX
- 2 hrs

Brass Literature
- 2 hrs

Restricted Electives
- 6 hrs

Percussion
- Minor Ensemble MUN XXXX
- 2 hrs

Percussion Literature
- 2 hrs

Restricted Electives
- 6 hrs

Strings
- Minor Ensemble MUN XXXX
- 2 hrs

String Literature
- 2 hrs

Restricted Electives
- 6 hrs

5. Restricted Electives (See above)

Any MUC, MUE, MUG, MUH, MUL, MUN, MUS, MUT courses numbered 3000 or higher.

6. Special Non-Course Requirements

MUS 1010 - Music Forum
- Native UCF students must complete six semesters of MUS 1010.
- Transfer students must take MUS 1010 each term they are enrolled at UCF.

Comprehensive Exam, Piano - MVK 4960
- Satisfactory completion of a comprehensive examination in piano. To be taken after completing MVK 4141.

Comprehensive Exam, Music History - MUH 4963
- Satisfactory completion of a comprehensive examination in music history, to be taken after completing MUH 4212 and before enrolling in MUT 3571.

Comprehensive Exams, Music Theory- MUT 2960, MUT 2961, MUT 2962
- Completion, with at least an 80% score on each of the following components; Ear-Training, Sight-Singing, 4-part Writing, Musical Forms, Transposition, Analysis, and Counterpoint.
- Tests are to be taken after completing MUT 2117 and before enrolling in MUT 3571.

Major Ensemble Participation
- Selected from University Chorus, Symphony Orchestra, Concert Band, Wind Ensemble, Women’s 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 any remaining major ensemble credits during separate semesters.
- Native UCF students must take each of four major ensemble credits in a separate semester.
- Students taking a course in performance must concurrently take a major ensemble appropriate to their principle instrument or voice.

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 hour must be taken in a separate semester.
- Minor ensembles include; Brass, Percussion, Piano, String, Vocal (except Opera Workshop), Woodwind, and Jazz Lab.

Recitals
- BA students must complete three of their comprehensive examinations before auditioning for their terminal recital at the Junior level.
UCF Degree Programs

- Each BA student must perform one faculty-approved, 30 minute public recital.

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 (0-11 hrs)
Admission: Met by graduation requirement
Graduation: Three semesters or equivalent proficiency exam

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 (BM), 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 2266, MUT 2267, or MUT 2276, MUT 2277.
- MVK 1111, MVK 2121*: May use MVK 1112, MVK 2122 or MVK 1211, MVK 2221

MUSIC EDUCATION (B.M.E.)
College of Arts and Sciences
Department of Music, CNH 205A, http://pegasus.cc.ucf.edu/~ucfmusic
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.
- 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 exam for accepted candidates.
- Demonstrate professional, vocal, and aural skill proficiency in an interview with 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:
- Pass 3 out 5 comprehensive proficiency examinations
- Have a minimum overall GPA of 2.5 and a grade of "B" 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)
- Must meet the College of Education's requirements for admission to Internships I and II (see College of Education, 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)

A. Communication Foundations
- ENC 1101 Composition I 3 hrs
- ENC 1102 Composition II 3 hrs
- SPC 1600 Fundamentals of Oral Communication 3 hrs

B. Cultural-Historical Foundations
- AMH 1010 U.S. History 1492-1877 3 hrs
- AMH 2020 U.S. History 1877-Present 3 hrs
- MUH 4211 History and Literature II 3 hrs

C. Mathematical Foundations
- MGF 1106 Finite Mathematics 3 hrs
- STA 1060C Basic Statistics Using Excel or
- STA 2014C Principles of Statistics 3 hrs

D. Social Foundations
- POS 2041 American National Government 3 hrs
- PSY 2012 General Psychology 3 hrs

E. Science Foundations
- PSC 1121 Physical Science 3 hrs
- Select one:
- STA 1060C Basic Statistics Using Excel or
- STA 2014C Principles of Statistics 3 hrs

F. Education Courses (9 hrs)

2. Common Program

Prerequisites (19 hrs)

A. Communications
- ENC 1101 Composition I
- ENC 1102 Composition II
- MGF 1106 Finite Mathematics

B. Humanities
- PHI 2010 Introduction to Philosophy 3 hrs
- MUH 4212 History and Literature II 3 hrs

C. Mathematics
- MAC 1105 College Algebra 3 hrs
- MGF 1106 Finite Mathematics 3 hrs

D. Social Science
- AMH 1010 U.S. History 1492-1877
- AMH 2020 U.S. History 1877-Present
- POS 2041 American National Government
- PSY 2012 General Psychology

E. Science
- PSC 1121 Physical Science
- Select one:
- STA 1060C Basic Statistics Using Excel or
- STA 2014C Principles of Statistics

F. Education Courses (9 hrs plus Lab)

Related Programs: Music Education, Music (BM), Theatre
Related Minors: Music, Theatre

Transfer Notes:
- 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.

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.
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College of Arts and Sciences
Department of Music, CNH 205A, http://pegasus.cc.ucf.edu/~ucfmusic
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.
- 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 exam for accepted candidates.
- Demonstrate professional, vocal, and aural skill proficiency in an interview with 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:
- Pass 3 out 5 comprehensive proficiency examinations
- Have a minimum overall GPA of 2.5 and a grade of "B" 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)
- Must meet the College of Education's requirements for admission to Internships I and II (see College of Education, 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)

A. Communication Foundations
- ENC 1101 Composition I 3 hrs
- ENC 1102 Composition II 3 hrs
- SPC 1600 Fundamentals of Oral Communication 3 hrs

B. Cultural-Historical Foundations
- AMH 1010 U.S. History 1492-1877 3 hrs
- AMH 2020 U.S. History 1877-Present 3 hrs
- MUH 4211 History and Literature II 3 hrs

C. Mathematical Foundations
- MGF 1106 Finite Mathematics 3 hrs
- STA 1060C Basic Statistics Using Excel or
- STA 2014C Principles of Statistics 3 hrs

D. Social Foundations
- POS 2041 American National Government 3 hrs
- PSY 2012 General Psychology 3 hrs

E. Science Foundations
- PSC 1121 Physical Science 3 hrs
- Select one:
- STA 1060C Basic Statistics Using Excel or
- STA 2014C Principles of Statistics 3 hrs

F. Education Courses (9 hrs)

2. Common Program

Prerequisites (19 hrs)

A. Communications
- ENC 1101 Composition I
- ENC 1102 Composition II
- MGF 1106 Finite Mathematics

B. Humanities
- PHI 2010 Introduction to Philosophy 3 hrs
- MUH 4212 History and Literature II 3 hrs

C. Mathematics
- MAC 1105 College Algebra 3 hrs
- MGF 1106 Finite Mathematics 3 hrs

D. Social Science
- AMH 1010 U.S. History 1492-1877
- AMH 2020 U.S. History 1877-Present
- POS 2041 American National Government
- PSY 2012 General Psychology

E. Science
- PSC 1121 Physical Science
- Select one:
- STA 1060C Basic Statistics Using Excel or
- STA 2014C Principles of Statistics

F. Education Courses (9 hrs)
### Internships

**Internship I:** 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.

**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.

### UCF Degree Programs

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<thead>
<tr>
<th>Course Code</th>
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<td>Introduction to Education</td>
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</tr>
<tr>
<td>EDG 2701</td>
<td>Teaching Diverse Populations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EME 2040</td>
<td>Intro to Educational Technology</td>
<td>3 hrs</td>
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</table>

**G. International/Diversity Courses**

**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.**

**Students are expected to observe, assist, and teach in variety of grade levels and settings (e.g., urban, suburban, general, choral,**

### Other Program Prerequisites

**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.**

### Core Requirements

**Program A - Instrumental**

- MVV 1111: Class Voice (or proficiency) - 0-1 hr
- MUG 3302: Instrumental Conduct & Materials - 2 hrs
- MUE 4480C: Marching Band Techniques - 1 hr
- ESE 4943: Internship II - Secondary - 12 hrs

**Program B Choral**

- MUG 3202: Choral Conduct & Materials - 2 hrs
- MUS 1201: European Diction - 1 hr
- ESE 4943: Internship II - Secondary - 12 hrs

**Program C - Elementary School**

- MVV 1111: Class Voice (or proficiency) - 0-3 hrs
- MUE 1291: Classroom Instruments - 1 hr
- MUE 3930: Special Topics in Elementary School Music - 2 hrs
- ESE 4943: Internship II - Secondary - 12 hrs

### Special Requirements (37 hrs)

- MUN XXXX: Major Ensembles (2 semesters) - 2 hrs
- MUS 1010: Music Forum (6 semesters) - 0 hrs
- MV XXXX: Performance (2 semesters) - 0 hrs
- MUG 3104: Basic Conducting - 2 hrs
- MUH 4211: History & Literature I - 3 hrs
- MUH 4212: History & Literature II - GEP
- MUE 2440: String Techniques - 1 hr
- MUE 2450: Woodwind Techniques - 1 hr
- MUE 2460: Brass Techniques - 1 hr
- MUE 2470: Percussion Techniques - 1 hr
- EDF 4214: Classroom Learning Principles - 3 hrs
- EDF 4603: Analysis of Critical Issues in Education - 3 hrs
- EDG 4223: Professional Teaching Practices - 3 hrs
- TSL 4080: Teaching LEP Children - 3 hrs
- RED 4043: Teaching Reading in the Content Area - 3 hrs
- ESE 3940: Internship I - Secondary - 3 hrs
- MUE 4311: Class Piano I (or proficiency) - 0-1 hr
- MVK 2121: Class Piano I - 1 hr
- MVK 3131: Class Piano III - 1 hr
- MVK 4141: Class Piano IV - 1 hr
- MVX.XXX: Performance (4 semesters) - 8 hrs

### Special Non - Course Requirements

Note: Contact the Music Education Advisor for details

**Music Forum**

- MUS 1010: Music Forum (6 semesters) - 0 hrs

- Native UCF Students must complete 6 semesters of MUS 1010
- Transfer students must take MUS 1010 each term they are enrolled at UCF, except while taking Internships I & II

**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 minimum of 4 proficiency examinations prior to auditioning for a faculty-approved public recital (optional for students in the Elementary School Music Specialization) Portfolio
- 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**

- Attend 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 weekly basis. Students are expected to observe, assist, and teach in variety of grade levels and settings (e.g., urban, suburban, general, choral,
UCF Degree Programs

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 EME 2040.
- 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 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)
- 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 course-work 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 Sciences
Department of Music, CNH 205
http://pegasus.cc.ucf.edu/~ucfmusic
E-Mail: music@mail.ucf.edu
407-823-2869, 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 78 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)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations
   Select one two-semester sequence 6 hrs
   Select MUH 4212 History and Literature II 3 hrs
C. Mathematical Foundations 6 hrs
   Select 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 (24 hrs)
MUT 1111*  Music Theory IA 2 hrs
MUT 1122*  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 IIA 2 hrs
MUT 2117*  Music Theory IIB 2 hrs
MUT 2246*  Ear Training & Sight Singing IIA 1 hr
MUT 2247*  Ear Training & Sight Singing IIB 1 hr
MUN XXXX Major Ensemble (four semesters) 4 hrs

(See Specialty requirements for specific requirements and for the credits required)

MVBM/VKB/VKP

MVS/MVVM/KVW Perf or comp (four semesters) 8 hrs
MVK 1111-2121* Class Piano I-II (or proficiency) 0-2 hrs
*See Transfer Notes for possible substitutes

3. Core Requirements (18 hrs)
Piano proficiency 0 hrs
   (or MVS/MVVM/KVW 1111-4141 Class Piano I-IV until passed)
MUS 1010 Music Forum (eight semesters) 0 hrs
5. Restricted Electives (See above)

- Any secondary performance course not in area of major instrument or

6. Special Non-Course Requirements

- MUS 1010 Music Forum
  - Native UCF students must complete 8 semesters of MUS 1010
  - Transfer students must take MUS 1010 each term they are enrolled at UCF

7. Departmental Exit Requirements

- Each student must perform two faculty-approved public recitals: a junior recital of 30 minutes length, a senior recital of 45 minutes length (30 minutes for Piano Pedagogy students).
- Completion, with at least an 80% score on each of the following comprehensive exams:
  - Music Theory - MUT 2960, MUT 2961, MUT 2962
  - Music History - MUH 4963
  - Piano - MVK 4960

- 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
- Composition majors must present original musical compositions
  - Bachelors of Music students must complete their piano proficiency and all but one comprehensive examination before auditioning for their senior recital or preparing for their senior composition recital.
  - Each student must perform two faculty-approved public recitals: a junior recital of 30 minutes length and a senior recital of 45 minutes length (30 minutes for Piano Pedagogy students).
  - Composition majors must present original musical compositions by the student.

8. Foreign Language Requirements (0-8 hrs)

9. Electives (variable)

10. University Minimum Exit Requirements

- 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
UCF Degree Programs

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 1111*, MUT 1112*: May use MUT 1211, 1212. 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

NURSING (B.S.N.)

A. BASIC PROGRAM
(For individuals who are not Registered Nurses)

College of Health and Public Affairs
HPA 1220, 407-823-2744
http://www.cohpa.ucf.edu/nursing/
Interim Director: Mary Lou Sole
E-mail: pleli@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 prior to February 1 of the year of admission is sought for the Orlando Campus and June 1 the prior year for January admission on the Brevard Campus (see information on accelerated second degree program for deadline)
- UCF application must also be submitted by the program deadline
- Student must complete all general education, foreign language, admissions, and program prerequisites prior to the start of the program
- 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 generic nursing program. Students with concerns or questions should contact the nursing office for an appointment with a generic faculty advisor.
- All applicants must have a minimum overall GPA of 2.5, 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.

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 grade of "C" (2.0) in the nursing major courses are required for continuation and graduation from the Nursing Program
- UCF Residency Requirement: 31 hours

Any variation from the stated prerequisites 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 (36 hrs)
   A. Communication Foundations 9 hrs
      - Communication Foundations
   B. Cultural Historical Foundations 9 hrs
      - Cultural Historical Foundations
   C. Mathematical Foundations 6 hrs
      - Mathematical Foundations
      - MAC 1105
      - Select STA 2014C
   D. Social Foundations 6 hrs
      - Social Foundations
      - Select both SYG 2000 and PSY 2012*
      - Select ECO 2013 or ECO 2023 or POS 2041
   E. Science Foundations: ** 6 hrs
      - Science Foundations: **
      - Select BSC 2010C
      - Select CHM 1032 (and lab)
   * One of these courses is required to meet General Education requirements, but both are required program prerequisites.
   ** Science Foundation is 6 credit hours for General Education Program. However the nursing program 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)
   A. PSY 2012 General Psychology** GEP
   B. SYG 2000 Sociology** GEP
   C. MCB 2005C Health Microbiology
   D. CHM 1032L General Chemistry and lab** GEP
   E. PCB 3703C Human Physiology* 4 hrs
   F. STA 2014C or 2023 Principles of Statistics** GEP
   G. SOW 3304 Assessing Human Development or
   H. DEP 2004 Developmental Psychology 3 hrs
   I. HUN 3011 Human Nutrition 3 hrs
   * 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 (63 hrs)
   A. NUR 326L Therapeutic Interv. for Health Prof. 1 hr
   B. NUR 3065L Health Assessment 3 hrs
   C. NUR 3165L Nursing Research 3 hrs
   D. NUR 3235L Promoting Physical & Mental Health 5 hrs
   E. NUR 3235L Clin Prac in Prom Phys/Mental Health 4 hrs
   F. NUR 3616L Promoting Healthy Families 3 hrs
   G. NUR 3616L Clinical Prac in Promot Healthy Fam 3 hrs
   H. NUR 3617L Promoting Healthy Communities 3 hrs
   I. NUR 3825L Role of the Professional Nurse 2 hrs
   J. NUR 3138L Pathophysiology & Pharmacology 5 hrs
   K. NUR 4525L Nursing Intervention in Mental Illness 2 hrs
   L. NUR 4525L Clinical Practice w/ Mentally Ill Client 1 hr
   M. NUR 4635L Community as the Continuum of Care 3 hrs
   N. NUR 4635L Clinical Prac in Comm.-Orient Nrrg 2 hrs
   O. NUR 4745L Nursing Care of Clients w/ Acute Ill. 4 hrs
   P. NUR 4745L Clinical Practice in Acute Illness 4 hrs
   Q. NUR 4827L Leadership & Management Principles 3 hrs
   R. NUR 4945L Directed Nursing Practice 4 hrs
   S. NUR 4835L Role Transition 2 hrs
   T. NUR 4837 Health Care Issues, Policy, & Econ 3 hrs
   U. NUR 4000C Nursing Elective 3 hrs

Any variation from the above must be approved by the School of Nursing.

4. Upper Division Restricted Electives (3 hrs)
   A. Nursing Elective:
      - Any School of Nursing Elective

5. Departmental Continuation and Exit Requirements
## UCF Degree Programs

### B. RN TO BSN PROGRAM

*(Completion program for individuals who are RNs licensed in the State of Florida)*

#### College of Health and Public Affairs

**HPA I 220, 407-823-2744**


**RN to BSN Coordinator:** Linda Hennig

E-mail: lindah@mail.ucf.edu

**Admission Requirements - Limited Access**

Acceptance to the university does not constitute admission to the upper division nursing program. [Separate application](http://www.cohpa.ucf.edu/nursing/) 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 in the State of Florida (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)
- A minimum overall GPA of 2.5
- Completion of program prerequisite courses with at least a grade of "C" (2.0) or better

**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 Program requirements
- 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
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses are required for admission to, continuation in and graduation from the Nursing Program
- UCF Residency Requirement: 30 hours
- The courses designated in sections 1 (General Education) and 2

### Tentative Course Schedule for Entering Freshmen

#### Freshman Year

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<th>Spring</th>
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<td>WOH 2012</td>
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<tr>
<td>or MCB 2005C</td>
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**Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)**

### Related Programs:

- Health Services Administration, Social Work, all health programs
- Aging Studies Certificate, Psychology, Health Sciences, Health Services Administration

### Transfer Notes:

- Examples of Community College Equivalent Courses - 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)* 4
  - Human Anatomy and Physiology I & II w/lab (BSC 2093/2094) or (BSC X085/X086) 6-8
  - General Microbiology (MCB 3020C) (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 (HUN 1201) or any Human 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

- 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

---

**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

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**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

- Current Licensure as an RN in the State of Florida (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)
- A minimum overall GPA of 2.5
- Completion of program prerequisite courses with at least a grade of “C” (2.0) or better
UCF Degree Programs

(Central Program Prerequisites) should usually be completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      9 hrs
   B. Cultural Historical Foundations
      9 hrs
   C. Mathematical Foundations
      6 hrs
   D. MAC 1105
      Select STA 2014C or STA 2023
   E. Social Foundations
      6 hrs
      Select SYG 2000 or PSY 2012
      Select one: ECO 2013 or ECO 2023 or POS 2041
   F. Science Foundations
      6 hrs
      Student must complete all general education and foreign language admissions requirements prior to NUR 4084. If completing an A.A. to fulfill General Education requirements, it must be awarded prior to the last semester at UCF.

2. Common Program Prerequisites 21 hrs
   PSY 2012 General Psychology**  GEP
   SYG 2000 Sociology**  3 hrs
   MCB 2001C General Chemistry and lab**  4 hrs
   ZOO 3733C Human Anatomy**  4 hrs
   PCB 3703C Human Physiology  4 hrs
   STA 2014C or 2023 Principles of Statistics**  GEP
   SOW 3104 Assessing Human Development or  3 hrs
   DEP 2004 Developmental Psychology
   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 (55 hrs)
   NUR 3809 Transitional Concepts in Nursing I  3 hrs
   NUR 3065 Health Assessment  3 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 4945L Directed Nursing Practice  4 hrs
   Validation Credit  28 hrs

4. Upper Division Restricted Elective (3 hrs)
   NUR XXXX Any Nursing Elective  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
   ■ Licensure as an RN in the State of Florida
   ■ Completion of UCF general education requirements or an AA degree from a state of Florida school, including CLAST (or exempt)
   ■ Completion of prerequisites for the RN-BSN nursing program
   ■ Validation exams or current professional work as RN or pass the NCLEX within the last two years

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 hours

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
NUR3809  3  NUR 3165  3
NUR 3065  3  NUR 4827  3

 Semester III
NUR 4084  3
NUR XXXX (elective)  3

 Semester IV  Semester V
NUR 4636  3  NUR 4837  3
NUR 4636L  2  NUR 4945L  4

*Elective may be taken at any point.

Progression requirements:
Prior to NUR 3809:
■ RN status or eligible to take NCLEX.
Prior to NUR 3165:
■ Complete NUR 3809 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
■ Validation exams or current professional work as RN or pass the NCLEX within the last two years

Prior to NUR 4636 and NUR 4636L:
■ Complete NUR 4084
■ Prior to NUR 4945L or (co-requirest)
■ Complete NUR 4636 and NUR 4636L

Other
Information about tuition, fees, and length of nursing programs can be obtained from the National League for Nursing Accrediting Commission, 61 Broadway, New York, NY 10006. (800) 669-1656, ext. 153.
Program offered in Orlando and at branch campuses of Daytona and Brevard and Leesburg (Lake Sumter).
The RN-BSN coursework is also offered via the Internet. Some on-campus labs and clinical practica are required. For further information access http://www.cohpa.ucf.edu/nursing/

NURSING (B.S.N.)
C. RN TO MSN OPTION

College of Health and Public Affairs
HPA 220, 407-823-2744
http://www.cohpa.ucf.edu/nursing/

Program Coordinator: Linda Hennig

Accelerated program for students who are licensed as an RN in the State of Florida 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, 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 accelerated 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 in the State of Florida
■ Completion of UCF general education requirements or an AA degree from a state of Florida school, including CLAST (or exempt)
■ Completion of prerequisites for the RN-BSN nursing program
■ Minimum cumulative GPA of 3.2
■ Admitted to UCF undergraduate program
■ Three professional references
Interim Requirements:
Maintain a Nursing GPA of 3.0

Completion of the GRE by the end of the second semester in the program with a minimum combined GRE score of 900 on the verbal/quantitative exams.

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 courses
- 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.
- Students take NGR 5800, Nursing Theory/Research I instead of NUR 3165, Nursing Research, if they have taken NUR 4836. The credits for this course are applied to both the BSN and MSN programs.
- 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 4945L, Directed Nursing Practice)
  - NGR 5720, Organizational Dynamics (for NUR 4827, Leadership and Management Principles)
  - NGR 5871, Health Care Informatics (for nursing elective)
  - NGR/HSA XXXX, 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 4945L, Directed Nursing Practice and undergraduate nursing elective)
  - NGR 5141, Pathophysiology (for undergraduate nursing elective)
  - NGR XXXX, Graduate elective in area of concentration

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 STA 2014C
D. Social Foundations 6 hrs
Select SYG 2000 or PSY 2012
Select one: ECO 2013 or ECO 2023 or POS 2041
E. Science Foundations: 6 hrs
Select BSC 2010C
Select CHM 1022

2. Common Program Prerequisites 21 hrs
PSY 2012 General Psychology**
SYG 2000 Sociology**
MCB 2005C Health Microbiology
CHM 1032L General Chemistry and lab**
ZOO 3733C Human Anatomy*
PCB 3703C Human Physiology
STA 2014C or 2023 Principles of Statistics**

3. Upper Division Restricted Elective none

4. 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

5. Electives none

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).
Graduation: none

7. University Minimum Exit Requirements (For students exiting after earning BSN.)
- 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 BSN 120 hours

Related Programs: Health Services Administration, all health programs
Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

NURSING ACCELERATED SECOND DEGREE
BACHELOR OF SCIENCE IN NURSING (BSN) OPTION
Note: For detailed information about this program, see description in the Accelerated Undergraduate-Graduate Program section.

NURSING (B.S.N.)
AS TO BSN TRACK
Note: For detailed information about this program, see description in the AS to BS Program section.

ORGANIZATIONAL COMMUNICATION (B.A.)
College of Arts and Sciences
Nicholson School of Communication, COM 258, 407-823-2852,
http://www.cas.ucf.edu/communication
E-mail: communication@ucf.edu
K. Phillip Taylor

Admission Requirements
Application to the School of Communication needed. Before applying, student must complete STA 2023 with a “C” (2.0) or better.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students need to apply to the School office to enter this major
- Co-op or internship credit can be used in this major
- 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
UCF Degree Programs

A. Communication Foundations

Students electing both a major and minor in the School must take the minor courses in excess of the 120 hours 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 & 1102 Composition
Select SPC 1600 Fund Oral Communication

B. Cultural and Historical Foundations

Select MGF 1106 Finite Mathematics (may substitute a higher level math)
Select STA 2023 Statistical Methods I

C. Mathematical Foundations

Select STA 2023 Statistical Methods I

D. Social Foundations

E. Science Foundations

2. Common Program Prerequisites (0 hrs)

XXX XXXX 18 hrs of any GEP courses

3. Additional Program Prerequisites (15 hrs)

Must be completed with a "C" (2.0) or better before Core Courses can be taken

STA 2023 Statistical Methods I
COM 3011C Communication & Human Relations
COM 3111 Communication Research Methods
Select from one of the following:
CGS 2100C Comp. Fundamentals for Business
CGS 2585C Desktop/Publishing
CGS 3175C Public Relations Publications
PUR 4110C Public Relations Publications
ENC 3250 Professional Writing

4. Core Requirements (12 hrs)

SPC 3425C Group Interaction & Decision Making
SPC 3445C Through Oral Communication
COM 3110 Business and Professional Communication
COM 3120 Organizational Communication

5. Electives (9 hrs)

Select from the following list:

SPC 3513 Argumentation and Debate
SPC 4350 Studies in Listening
COM 3330 Computer Mediated Communication
COM 3701 Humor in Communication
COM 4014 Gender Issues in Communication
COM 4461 Intercultural Communication
COM 4462 Conflict Management
COM 4941 Internship
COM 4XXX Interviewing Principles and Practices
COM 4XXX Health Communication
COM 4XXX Family Communication
COM 4XXX Communication and Aging
COM 4XXX Comm. Training and Development
COM 4XXX Communication and Law

6. Upper Division Restricted Electives (6 hrs)

A minimum of six upper division credit hours selected from courses in Business Law, Management, Marketing, or Hospitality Management.

7. School Exit Requirements

Achieve a "C" (2.0) or better GPA in required UCF Communication courses.

To avoid delaying graduation, you must request a review of requirements before registering for your last term.

Computer Competency met by a Computer Science course or by departmental assessment.

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: One year or equivalent proficiency exam

9. Electives (variable)

Select primarily from upper level courses, with school advisors approval. May be taken outside the School of Communication.

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: Interpersonal Communication

Related Minors: Interpersonal Communication

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.

PHILOSOPHY (B.A.)

College of Arts and Sciences

Philosophy Department, CNH 411,
http://www.cas.ucf.edu/philosophy

E-mail: philosophy@ucf.edu

TBA, 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 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 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

B. Cultural and Historical Foundations

Select HUM 2211 Humanistic Traditions I
Select HUM 2230 Humanistic Traditions II
Select PHI 2010 Intro to Philosophy

C. Mathematical Foundations

Select MGF 1106 Finite Mathematics (may substitute a higher level math)
Select STA 1060C Statistics Using Excel

D. Social Foundations

E. Science Foundations

2. Common Program Prerequisites none

3. Core requirements* (27 hrs)

Philosophical Foundations:
Select 12 hours, including at least three hours from each group:

Reasoning
PHI 2011 Philosophical Reasoning
PHI 2100 Critical Thinking

Ethics
PHI 2011 Philosophical Reasoning
PHI 2100 Critical Thinking

Knowledge
PHI 3320 Philosophy of Mind
PHI 4341 Ways of Knowing

Research Methods
PHI 3XXX Research Methods in Philosophy

Disciplinary and Interdisciplinary Knowing (6 hrs)
Select two courses:
PHI 3400 Philosophy of Law
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 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: Humanities

Related Minors: 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.

PHOTOGRAPHY (B.S.)

A.S. to B.S. Track

Note: For detailed information about this program, see description in the AS to BS Programs section.

PHYSICAL EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles

ED building, second floor 407-823-5791

Coordinator: Patricia Higginbotham, 407-823-2050
E-mail: higginsbp@mail.ucf.edu

Web Address: http://www.edcollege.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 four parts of the CLAST examination
- Complete prerequisite courses

Degree Requirements:

- Students should consult with an advisor.

1. UCF General Education Program (37 hrs)

A. Communication Foundations (9 hrs)

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<td>ENC 1102</td>
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<td>ENC 1103</td>
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B. Cultural-Historical Foundations (9 hrs)

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C. Mathematical Foundations (6 hrs)

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<td>MGF 1106</td>
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D. Social Foundations (6 hrs)

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E. Science Foundations (7 hrs)

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<td>BSC 2010</td>
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2. Common Program Prerequisites (25 hrs)

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<tr>
<td>ENC 1102</td>
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<tr>
<td>SPC 1600</td>
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3. Major Requirements

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<td>PHI 2830</td>
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<tr>
<td>PHI 2930</td>
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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:

a. Philosophical Foundations (12 hrs)

- Same requirements as for regular majors but must include PHI 2100 Formal Logic I

b. Disciplinary and Interdisciplinary Knowing (6 hrs)

- Same requirements as for regular majors

Applications (9 hrs)

- Same requirements as for regular majors

5. Honors in the Major

Students considering graduate school in philosophy are strongly encouraged to take Honors in the Major. Requirements are as follows:

a. Philosophical Foundations (12 hrs)

- Same requirements as for regular majors but must include PHI 2100 Formal Logic I

b. Disciplinary and Interdisciplinary Knowing (6 hrs)

- Same requirements as for regular majors

Applications (9 hrs)

- Same requirements as for regular majors

6. Departmental Exit Requirements

- Either PHI 4970H: Honors Thesis (3 hrs) or organization and submission of a portfolio (PHI 4951 - 1 hr) of one’s work in philosophy to a Departmental committee for approval prior to graduation.

- Earn a “C” (2.0) or better in each required course.

- Computer Competency met by PHI 4970H, PHI 4951, 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: Two semesters or equivalent proficiency exam. 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)
UCF Degree Programs

B. Humanities (6 hrs)
- PHI 2010 Introduction to Philosophy GEP
- Select one:
  - ARH 2050 The History of Art I or
  - ARH 2051 The History of Art II
  - MUL 2010 Enjoyment of Music or
  - THE 2000 Theatre Survey or
  - FIL 1001 Cinema Survey

C. Mathematics (9 hrs)
- MAC 1105 College Algebra GEP
- MGF 1106 Finite Mathematics GEP
- One of the following (per GEP) 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
- BSC 2010C General Biology GEP
- Select one:
  - AST 2002 Astronomy or
  - GEO 1200 Physical Geography or
  - GLY 1030 Geology and its Applications

F. Education Courses (9 hrs)
- EDP 2005 Introduction to Education
- EDG 2701 Teaching Diverse Populations
- EME 2040 Technology for Educators

G. Diversity Courses (6 hrs)
- Select one:
  - EDA 1001 Diversity and Social Equity

H. Other Program Prerequisites (7 hrs)
- Select one:
  - PET 3765 Coaching Theory
  - Select PHY 2048 & L Physics for Sci & Eng I

3. Education Core Requirements (15 hrs)
- EDG 4323 Professional Teaching Practices
- EDF 4003 Analysis of Critical Issues in Education
- EDF 114 Classroom Learning Principles
- TSL 4080 Thry & Prac Teaching ESL Students in Schools
- RED 4043 Content Reading K-12

4. Specialization Requirements (30 hrs)

Physical Education (K-8) (30 hrs)
- DAE 3370 Dance & Rhythms
- PEO 3041 Games in the Elementary School
- PEP 3205 Gymnastics
- PEO 2622CC Human Injuries
- PEO 4050C Motor Development & Learning
- PEO 4312 Biomechanics
- PEO 4351 Applied Exercise
- PEO 4601 Administration and Evaluation in PE
- PEO 4644 Coaching Football
- PEO 4823 Teaching Sports Skills

5. Internship I and Methods (6 hrs)
- Select one:
  - PET 4710 Teaching Physical Education K-12
  - PET 4740 Internship

6. Internship II (PET 4943) (12 hrs)
- All methods/specialization courses must be completed with a letter grade of "C" (2.0) or better before registering for Internship II.
- See additional requirements in College of Education, Office of Clinical Experiences.

7. Optional Certification and Endorsement (6-12 hrs)
- PET 3765 Coaching Theory
- PET 4050 Fitness Assessment and Exercise

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 9 hours of Summer Credit (if applicable)

Total Semester Hours Required: 125 hours

PHYSICS (B.S.)

College of Arts and Sciences
Physics Department, MAP 310, 407-823-2325, http://www.physics.ucf.edu
E-mail: physics@ucf.edu

Interim 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 between these tracks.

Physics majors must complete 125 hours of course work, including courses designated in 1 (General Education Program) and 2 (Departmental Requirements), as well as courses in the major. The following tracks are available:

A. Communication Foundations
- Select ENC 1101 English Composition I
- Select ENC 1102 English Composition II

B. Cultural and Historical Foundations
- Prefer SPC 1016 Oral Comm for Tech Prof

C. Mathematical Foundations
- Select MAC 2281 Calculus for Sci & Eng I

D. Social Foundations
- Select COP 3223 Computer Programming

E. Foundations
- Select PHY 2048 & L Physics for Sci & Eng I

Interim Chair: Ralph Llewellyn, 407-823-2325

http://www.physics.ucf.edu

E-mail: physics@ucf.edu

Physics Department, MAP 310, 407-823-2325

Interim Chair: Ralph Llewellyn, 407-823-2325

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Physics Department, MAP 310, 407-823-2325

Interim 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 between these tracks.

Physics majors must complete 125 hours of course work, including courses designated in 1 (General Education Program) and 2 (Departmental Requirements), as well as courses in the major. The following tracks are available:

A. Communication Foundations
- Select ENC 1101 English Composition I
- Select ENC 1102 English Composition II

B. Cultural and Historical Foundations
- Prefer SPC 1016 Oral Comm for Tech Prof

C. Mathematical Foundations
- Select MAC 2281 Calculus for Sci & Eng I

D. Social Foundations
- Select COP 3223 Computer Programming

E. Foundations
- Select PHY 2048 & L Physics for Sci & Eng I

Interim Chair: Ralph Llewellyn, 407-823-2325

http://www.physics.ucf.edu

E-mail: physics@ucf.edu

Physics Department, MAP 310, 407-823-2325

Interim Chair: Ralph Llewellyn, 407-823-2325
Select a GEP course from Science Section 2 3 hrs

2. Common Program Prerequisites (20 hrs)

CHM 2045C: Chem Fund I 4 hrs
CHM 2046L & L Chem Fund II with lab 4 hrs
MAC 2281: Calculus for Sci & Eng I GEP 4 hrs
MAC 2282: Calculus for Sci & Eng II 4 hrs
MAC 2283: Calculus for Sci & Eng III 4 hrs
PHY 2048 & L Physics Engr & Sci I & Lab GEP 4 hrs
PHY 2049 & L Physics Engr & Sci II & Lab GEP 4 hrs

*See Transfer Notes for possible substitutes

3. Core requirements (all tracks) (36 hrs)

MAP 2302: Differential Equations 3 hrs
PHY 3101: Physics Engr & Sci III 3 hrs
PHZ 3113: Intro to Theoretical Methods of Physics 3 hrs
PHY 3221: Mechanics 3 hrs
PHY 3503: 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

Laboratory requirements
PHY 3802L: Intermediate Physics Lab 3 hrs
Select one of the following 3 hrs
PHY 3752C: Physics of Sci Instruments 3 hrs
PHY 3772C: Physics Laboratory: Electronics 3 hrs

4. Specialization: select one specialization (18 hrs)

4.1 General Physics Specialization
PHY 4803L: Advanced Physics Lab 3 hrs
Upper Division Restricted Electives 6 hrs
PHY, PHZ, or AST courses 6 hrs
Directed Electives 9 hrs
Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Chemistry, Computer Science, or Engineering.

4.2 Materials Physics Specialization
Choose one lab from:
PHY 4803L: Advanced Physics Lab 3 hrs
EEL 5355C: Fabrication of Solid State Devices 4 hrs
Choose nine hours from:
EEL 3306: Semiconductor Devices 3 hrs
EGN 3365: Structure and Properties of Materials 3 hrs
EMA 4413: Electronic Properties of Materials 3 hrs
CHM 3411L: Physical Chemistry Laboratory 2 hrs
PHZ 5405: Condensed Matter Physics 3 hrs
EEL 5352: Semiconductor Mat & Device Char 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.

4.3 Optics and Lasers Specialization (18 hrs)
PHY 4424L: Optical Physics Laboratory 3 hrs
PHY 4424: Physical Optics 3 hrs
Choose six hours from:
EEL 4440: Optical Engineering 3 hrs
PHY 4445: Lasers 3 hrs
OSE 5414: Fund. of Optoelectronic Devices 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.

4.4 Computational Physics Specialization (18 hrs)
PHZ 3151: Computer Methods in Physics 3 hrs
COP 3902C: Computer Science I 3 hrs
COP 3903C: Computer Science II 3 hrs
COP 4504: Numerical Calculus 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.

4.5 Astronomy Specialization (18 hrs)
AST 2002: Introduction to Astronomy 3 hrs
AST 3722C: Observational Astronomy 3 hrs
Choose two of the following:
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 (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: Engineering, Mathematics
Related Minors: Mathematics, Physics
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 2281, 2282, 2283*: MAC 2311, 2312, and 2313 will substitute

POLITICAL SCIENCE (B.A.)
College of Arts and Sciences
Political Science Department, CNH 415, 407-823-2608
http://pegasus.cc.ucf.edu/~politics
E-mail: politics@ucf.edu
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 (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 3 hrs
UCF Degree Programs

AMH 2020 US History: 1877-Present 3 hrs
Select from GEP list 3 hrs
C. Mathematical Foundations 6 hrs
Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
Select STA 2014C Principles of Statistics or STA 1006C Statistics Using Excel 3 hrs
D. Social Foundations 6 hrs
Select POS 2041 American National Government 3 hrs
Select one of the three choices 3 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)
POS 2041* American National Government GEP
POS 3703* Scope & Methods of Pol Sci 3 hrs
*See Transfer Notes for possible substitutes

3. Upper Division Restricted Electives (30 hrs)
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.

AREAS OF SPECIALIZATION

A. American Politics and Policy
POS 3122 State Government
POS 3173 Southern Politics
POS 3182 Florida Politics
POS 3233 Political Opinion
POS 3235 Mass Media and Politics
POS 3273 Voting and Elections
POS 3182 Florida Politics
POS 3413 The American Presidency
POS 3XXX Women and Political Behavior
POS 3424 Congress and the Legislative Process
POS 3434 Political Parties and Processes
POS 3258 Politics in Film
POS 3463 Interest Groups
POS 3627 Cultural Pluralism and the Law
POS 4142 Metropolitan Politics
POS 4204 Political Behavior
POS 4206 Political Psychology
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 4XXX Urban Environmental Politics
PUP 4204 Sustainability
PUP 4203 Environmental Politics
PUP 3314 Minorities in American Politics
POS 4003 American Public Policy
POS 4204 Sustainability
PUP 4233 Women and Public Policy
PUP 4XXX GIS for Political Science
PUP 4401 Education and Politics
PUP 4503 Government and Science
PUP 4602 Politics of Health
PUP 4244 Government and Business
PUP 4931 Topics in Public Policy

B. International Relations and Comparative Government
CPO 3004 Politics of Developing Areas
CPO 3103 Comparative Politics
CPO 3104 Politics of Western Europe
CPO 3403 Politics of the Middle East
CPO 3614 Politics of Eastern Europe
CPO 4062 Comparative Judicial Processes
CPO 4074 Political Economy
CPO 4123 Government and Politics of Great Britain
CPO 4303 Comparative Latin American Politics
CPO 4643 Government and Politics of Russia
CPO 4710 Women in Comparative Perspective
GEO 3470 World Political Geography
INR 2002 International Relations
INR 3253 International Politics of Africa
INR 4035 International Political Economy
INR 4085 Women, Gender, and Globalization
INR 4102 American Foreign Policy
INR 4114 American Security Policy
INR 4115 Strategic Weapons and Arms Controls
INR 4224 Contemp International Politics of Asia
INR 4225 Vietnam War
INR 4243 International Politics of Latin America
INR 4335 Coercion in International Politics
INR 4251 International Environmental Law
INR 4401 International Law I
INR 4402 International Law II
INR 4404 Space Law
INR 4502 International Organizations
POS 3253 Contemp Revolution & Political Violence
PUP 3508 Space Studies
PUP 4510 Space Policy

C. Political Theory
POT 3024 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 4305 The State, Society, and The Individual
POT 4314 Contemporary Democratic Theory
POT 4321 Utopia/Dystopias
POT 4414 Marxist Political Theory
POT 4632 Religion and Politics

4. Departmental Exit Requirements
■ Maintain a minimum GPA of 2.0 in the major
■ Computer Competency met by POS 3703

5. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement
Graduation: Two semesters or equivalent proficiency exam.

6. 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.

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 hours

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.

POLITICAL SCIENCE (B.A.) - INTERNATIONAL STUDIES TRACK
College of Arts and Sciences
Political Science Department, CNH 415, 407-823-2608
http://pegasus.cc.ucf.edu/~politics
E-mail: politics@ucf.edu
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 (36 hrs)
   A. Communication Foundations
   - 9 hrs
   B. Cultural and Historical Foundations
   - Select from the following: American History, American Studies, European Studies, World History, World Cultures, or World Languages.
   - 9 hrs
   C. Mathematical Foundations
   - 3 hrs
   D. Social Foundations
   - 3 hrs
   E. Science Foundations
   - 3 hrs

2. Common Program Prerequisites (6 hrs)
   INR 2002* International Relations-Theory and Practice 3 hrs
   ECO 2013* Macroeconomics 3 hrs
   *See Transfer Notes for possible substitutes

3. Core Requirements (15 hrs)
   GEO 3470 World Political Geography 3 hrs
   IDS 3XXX Global Perspectives 3 hrs
   IDS 4XXX Capstone in International Studies 3 hrs
   POS 3703 Scope and Methods of Political Science 3 hrs
   INR 4903 International Relations Theory 3 hrs

4. Restricted Electives (18 hrs)
   Note: Students must meet all prerequisites before taking these classes.
   Regional 9 hrs
   CPO 3034 Politics of Developing Areas
   CPO 3103 Comparative Politics
   CPO 3104 Politics of Western Europe
   CPO 3403 Politics of the Middle East
   CPO 3614 Politics of Eastern Europe
   CPO 4062 Comparative Judicial Process
   CPO 4074 Political Economy
   CPO 4123 Government and Politics of Great Britain
   CPO 4303 Comparative Latin American Politics
   CPO 4643 Government and Politics of Russia
   CPO 4710 Women in Comparative Politics
   CPO 5334 Contemporary Politics of the Mayan Region
   POS 3253 Contemporary Revolution and Political Violence
   Functional 9 hrs
   INR 3253 International Politics of Africa
   INR 4030 Diplomacy
   INR 4076 Global Drug Policy
   INR 4075 Human Rights Policy
   INR 4074 Immigration Policy
   INR 4304 International Public Policy

5. Required minor (18 hrs minimum)
   Select from the following: Asian Studies, German, International Business (Business majors only), Italian, Latin American Studies, Middle East Studies, Russian Area Studies, or Spanish.
   Note: No more than one course may be used to fulfill both this track and the minor.

6. Departmental Exit Requirements
   - Maintain a minimum GPA of 2.0 in the major.
   - Computer Competency met by POS 3703.

7. Foreign Language Requirements (0-14 hrs)
   Admission: Met by graduation requirement.
   Graduation: Two years (four semesters) or equivalent proficiency exam.

8. Electives (variable)
   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 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

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.
POLITICAL SCIENCE - PRELAW TRACK (B.A.)

College of Arts and Sciences
Political Science Department, CNH 415, 407-823-2608
http://pegasus.cc.ucf.edu/~politics
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 9 hrs
      Preferred AMH 2010 US History: 1842-1877 and AMH 2020 US History: 1877-Present
   B. Cultural and Historical Foundations 3 hrs
      Select one of the following:
      ● Select MGF 1106 Finite Mathematics (may substitute a higher level math)
      ● Select STA 2041C Principles of Statistics or STA 1006C Statistics Using Excel
   C. Mathematical Foundations 6 hrs
      Select one of the three choices
      ● Select POS 2041 American National Govt
      ● Select POS 2041 American National Govt
      ● Select STA 1060C Statistics Using Excel
   D. Science Foundations 6 hrs
      Select one of the three choices
      ● Select one of the following:
      ● Select POS 2041 American National Govt
      ● Select POS 2041 American National Govt
      ● Select STA 1060C Statistics Using Excel

2. Common Program Prerequisites (3 hrs)
   POS 2041* American National Govt 3 hrs
   POS 3703* Scope & Methods of Pol Sci 3 hrs
   *Select Transfer Notes for possible substitutes

3. Upper Division Restricted Electives (30 hrs)
   POS 4284* Judicial Process and Politics 3 hrs
   Select one of the following:
   ● 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)
   Five courses from area A and 15 hrs
   Five courses from area B 15 hrs
   Five courses from area A and 15 hrs
   Five courses from area B 15 hrs
   Select one course from area C 3 hrs

4. Departmental Exit Requirements
   ■ Maintain a minimum GPA of 2.0 in the major
   ■ Computer Competency met by POS 3703

5. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement
   Graduation: Two semesters or equivalent proficiency exam.

6. 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 3820 3821 Business Law I & II
   PLA 3104 Legal Research
   PLA 3155 Legal Writing
   PHI 2101 Critical Thinking
   PHI 2103 Formal Logic I
   MHE 3302 Logic and Proof in Mathematics
   ENC 3111 Expository 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.

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 hours

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.

PSYCHOLOGY (B.A.)

College of Arts and Sciences
Psychology Department, PH 302B, 407-823-2216
http://pegasus.cc.ucf.edu/~psych
E-mail: psychology@ucf.edu
J. McGuire, 407-823-2216

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 Psychology course counted toward the major requirements.
■ Co-op or internship credit cannot be used in this major.
■ Students should consult with the Department Interim Director of Undergraduate Advising, T. Hernandez, 407-823-2547, 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 3214C. 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
      Select MGF 1106 Finite Math 3 hrs
      Select STA 2023 Statistical Methods I* or STA 2014C Principles of Statistics 3 hrs
   D. Social Foundations
      Select one of the listed choices 3 hrs
      Select PSY 2012 General Psychology 3 hrs
   E. Science Foundations
      Select BSC 1005 Biological Principles 3 hrs
      Select one of the listed choices 3 hrs
*See Transfer Notes for possible substitutions

2. Common Program Prerequisites (3 hrs)
   BSC 1005* Biological Principles or
   PSY 2012* General Psychology 3 hrs
   DEP 2004* Developmental Psychology 3 hrs
   STA 2023* or STA 2014C: any lower level STA course. However, STA 2023 (or STA 2014C) is a prerequisite for subsequent Psychology courses and will need to be taken for the major.

3. Core requirements (10 hrs)
   EXP 3404 Basic Learning Processes 3 hrs
   PSB 3002 Physiological Psychology 3 hrs
   PSY 3214C Research Methods 4 hrs

4. Restricted Electives (12 hrs)
   Select two of the following three courses 6 hrs
   DEP 2004 Developmental Psychology 3 hrs
   PPE 3003 Personality Theory 3 hrs
   SOP 3004 Social Psychology 3 hrs
   Select six additional upper division hours in Psychology 6 hrs

5. Diversity (9 hrs)
   Take three diversity courses: one from A, one from B, and one from either A or B
   A. Psychology Diversity courses
      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 3561, 3562, 3571, 3572, 3586; AML 3614, 3615, 3640, 4261; ANT 3241, 3302, 3311, 3312, 3332, 3365, 3431, 3460; ARH 3520, 4458; ASH 4404, 4442; CJC 4670; CLA 3851; COM 4014, 4461; CPO 3403; EUH 4576; FL 3309; GEO 3470; GY 3001; HSC 4564; HUM 3320, 3401, 3419; JST 3401; LAH 3130; 3200, 3400, 5713; LIN 4643; LIT 3354, 3383; PHI 3022, 3033; PHM 3123; POS 4246, 4622; PUP 3314, 4233; REL 3162; SPA 4612, 4613; SYD 3700, 3800; SYP 4730; WST 3015.

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 3214C

7. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement
   Graduation: Two semesters or equivalent proficiency exam.

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: 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 1005*: any lower level BSC course or ZOO X010.
- PSY 2012*: any PSY course. However PSY 2012 is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
- STA 2023* or STA 2014C: any lower level STA course. However, 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.

PSYCHOLOGY (B.S.)

College of Arts and Sciences
Psychology Department, PH 302B, 407-823-2216
http://pegasus.cc.ucf.edu/~psych
E-mail: psychology@ucf.edu
J. McGuire, 407-823-2216

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 Psychology course counted toward the major requirements
- Co-op or internship credit cannot be used in this major
- Students should consult with the Department Interim Director of Undergraduate Advising, T. Hernandez, 407-823-2547, 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,
UCF Degree Programs

including PSY 3214C. 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 (37 hrs)

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
   - Select MGF 1106 Finite Math 3 hrs
   - Select STA 2023 Statistical Methods I or STA 2014C

D. Social Foundations
   - Select one of the listed choices 3 hrs
   - Select PSY 2012 General Psychology 3 hrs

E. Science Foundations
   - Select BSC 2010C General Biology or
   - Select one of the listed choices 3 hrs

*See Transfer Notes for possible substitutions

2. Common Program Prerequisites (3 hrs)

BSC 2010C General Biology or

BSC 1005 (If no additional Biology courses are planned)

Select PSY 2012 General Psychology 3 hrs

3. Core requirements (14 hrs)

EXP 3404 Basic Learning Processes 3 hrs
PB 3002 Physiological Psychology 3 hrs
PSY 3214C Research Methods 4 hrs
PSY 4215C Advanced Research Methods 4 hrs

4. Restricted Electives (12 hrs)

A. Select two of the following: 6 hrs
   - DEP 2004 Developmental Psychology
   - PPE 3003 Personality Theory
   - SOP 3004 Social Psychology

B. Psychology electives: select six additional upper division hours in psychology 6 hrs

*See Transfer Notes for possible substitutes

5. Diversity courses (6 hrs)

Take two diversity courses - one from A & one from B

A. Psychology Diversity courses 3 hrs
   - DEP 3464 Psych of Aging
   - SOP 3723 Cross Cultural Psychology
   - SOP 3724 Psych of Racial Prejudice
   - SOP 3742 Psych of Women
   - SOP 3772 Sexual Behavior
   - SOP 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 3561, 3562, 3571, 3572, 3586; AML, 3614, 3615, 3640, 4261; ANT 3241, 3302, 3311, 3332, 3333, 3341, 3343, 3345, 3346; ARH 3520, 4458; ASH 4404, 4442; CCJ 3467; CLA 3851; COM 4014; 4451; CPO 3403; EUH 2565; FIL 3309; GEO 3477, 3478; HUM 3301, 3303; HUM 3401, 3403, 3419; JST 3401, 3419, 3519; LAH 3130, 3200, 3400, 3571; LIN 4643; LIT 3854, 3883; PCE 3002, 3003; PHM 3123; POS 4246, 4262; PUP 3314, 4323; REL 3362; SPA 4122, 4123, 4126; SYD 3700, 3800; SYF 4730; WST 3105.

6. Science Electives (12 hrs)

A. Select at least six credits outside Psychology from:
   - CCS 2100C Computer Fundamentals of Business 3 hrs
   - COP 3002C Computer Science I 3 hrs
   - COP 3033C Computer Science II 3 hrs
   - ENC 3241 Technical Writing 3 hrs
   - MAC 2233 Concepts of Calculus 3 hrs
   - MAC 2253 Applied Calculus I 3 hrs
   - MAC 2254 Applied Calculus II 3 hrs
   - PCB 3063 & L Genetics with lab 3 hrs
   - PCB 3700C Human Physiology 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
   - ZOO 3733C Human Anatomy 3 hrs

B. Select at least two of the following: 5-8 hrs
   - EXP 3024C Perception 3 hrs
   - EXP 3513 Cognitive Psychology 3 hrs
   - EXP 4507C Advanced Human Memory and Cognition 3 hrs
   - PSB 4013C Neuropsychology 3 hrs

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 3214C

8. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.

Graduation: Two semesters or equivalent proficiency exam

9. Electives (variable)

- Complete the General Education Program, the Gordon Rule, the CLAST, and nine hours of Summer credit (if applicable).
- 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

Total Semester Hours Required 120 hours

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.
- PSY 3214C: any PSY course. However PSY 3214 is a prerequisite for all subsequent Psychology courses and will need to be taken for the major.
- STA 2023 or STA 2014C: or any lower level STA 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.
Students who complete a recognized UCF "Double Majors" Public Administration electives are required as follows:

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tr>
<td>PAD 4720</td>
<td>Survey Research in Public Administration</td>
<td>3</td>
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<tr>
<td>PAD 4414</td>
<td>Human Resource Management</td>
<td>3</td>
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<td>PAD 4204</td>
<td>Fiscal Management</td>
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<td>PAD 4104</td>
<td>Administrative Management</td>
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<td>PAD 4034</td>
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<tr>
<td>PAD 4720</td>
<td>Survey Research in Public Administration</td>
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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 (nine hours required for major) 6 hrs
Select CGS 1060C
Select PSY 2012 or SYG 2000
E. Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)

CGS 1060C Intro to Computer Science GEP
POS 2041 American National Government GEP
ECO 2023 Microeconomics 3 hrs

3. Core Requirements (18 hrs)

PAD 3003 Public Admin. in American Society 3 hrs
PAD 4034 Administration of Public Policy 3 hrs
PAD 4104 Administrative Management 3 hrs
PAD 4204 Fiscal Management 3 hrs
PAD 4104 Administrative Management 3 hrs
PAD 4720 Survey Research in Public Administration 3 hrs

4. Upper Division Restricted Electives (39 hrs)

Public Administration electives are required as follows:

- **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;
- All other PAD majors must complete at least 21 hrs of PAD prefixed electives 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. Electives (variable)

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 additional upper level technical courses (six credit hours) approved by the Department.

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: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at the college level.

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

- 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**: Accounting, Communications, Economics, Legal Studies, Computer Science, Social Work, Political Science, Criminal Justice, Health Services Administration, Management

**Related Minors**: Computer Science, Communications, Business, Economics

**Transfer Notes**: Intro. to Computer Science (CGS 1060C) or any Computer Science course 3 Economics I (ECO 2013) or any Macroeconomics course 3 American National Government (POS 2041) or any course in American National Government 3

**Tentative Course Schedule for Entering Freshmen**

**Freshman Year**

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<th>Fall</th>
<th>14 hrs</th>
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<td>ANR 2000 or CMH 1020 or PSC 1121 3</td>
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<td>ECO 2023</td>
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<td>or AST 2002</td>
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**Sophomore Year**

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**Junior Year**

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**Senior Year**

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<th>Spring</th>
<th>12/15 hrs</th>
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<tr>
<td>Restricted Elective</td>
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UCF Degree Programs

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 also offers a minor in Urban and Regional Planning.

RADIO-TELEVISION (B.A.)
College of Arts and Sciences
Nicholson School of Communication, COM 246, 407-823-2681,
http://www.cas.ucf.edu/communication
E-mail: radiotv@ucf.edu
M. Meeske

Admission Requirements - Limited Access
■ Students should apply to become Radio-Television majors only after completing all requirements for admission. Deadlines are:
  October 1, 2003 for Spring 2004
  February 2, 2003 for Summer 2004
  July 1, 2004 for Fall 2004
■ 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 the previous year, ranged from a minimum of 2.9.
■ Meet a grammar proficiency standard.
■ 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.
■ Students may complete an internship off campus in a professional broadcast, production, or corporate operation
■ Co-op or internship credit can be used in this major without prior departmental permission
■ 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
■ Students electing both a major and minor in the School must take the minor courses in excess of the 120 hours required for graduation.
■ A maximum of 3 credit hours of internship may be earned in one semester. A total of 6 credit hours of internship may be earned within the 120 credit hours required for graduation. Summer internships are available during “C” (2.0) term only.
■ Courses designed in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program
  A. Communication Foundations
     Select ENC 1101 & 1102 Composition 6 hrs
     Select SPC 1600 Fund Oral Communication 3 hrs
  B. Cultural and Historical Foundations
     Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
     Select SPC 1060C Intro. to Computer Science 3 hrs
  C. Mathematical Foundations
     Select MATH 1421 Calculus and Analytic Geometry I 3 hrs
     Select MATH 1422 Calculus and Analytic Geometry II 3 hrs
     Select MATH 2423 Calculus and Analytic Geometry III 3 hrs
  D. Fine Arts Foundations
     Select SPC 1060C Intro. to Computer Science 3 hrs
     Select EACE 1100 Art History 3 hrs
     Select EACE 1110 History of American Music 3 hrs
     Select EACE 1120 History of Film 3 hrs
     Select EACE 1130 History of American Theatre 3 hrs
     Select EACE 1140 History of American Television 3 hrs
     Select EACE 2100 History of American Radio 3 hrs

2. Common Program Prerequisites
   Select one of the following:
   6 hrs
   3 hrs
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3. Core requirements (all areas)
   Select one of the following:
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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.

RADIOLOGIC SCIENCES (B.S.)
College of Health and Public Affairs
HPA2 210, 407-823-2747
http://www.cohealth.ucf.edu/health.pro/
Undergraduate Program Director: Thomas Edwards
E-mail: tedwards@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) from each state or province of residence during the past 24 months 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.” (No TSD credit may be used for prerequisite courses.)

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 hrs)
   - A. Communication Foundations: 9 hrs
   - B. Cultural Historical Foundations: 9 hrs
   - C. Mathematical Foundations: 6 hrs
     Select MAC 1105
     Select CDS 1060C
   - D. Social Foundations: 6 hrs
     Select BSC 2010C
     Select PHY 2053C
   - E. Science Foundations: 6 hrs
     Select PHYS 1003C

2. Common Program Prerequisites (12 hrs)
   - CGS 1060C Introduction to Computer Science
   - PCB 3070C Human Physiology* GEP
   - PHY 2053C College Physics I* GEP
   - PHY 2054C College Physics II 4 hrs
   - ZOO 3733C Human Anatomy* 4 hrs

3. Core Requirements (76 hrs)
   - 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 3804 Clinical Education I 4 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
     - HSC 3640 Health Law 3 hrs
     - RTE 3308 Medical Physics 3 hrs
     - STA 2023 Statistical Methods I 3 hrs
     - HSC 4550 Pathophysiology Mechanisms 3 hrs
   - Senior Level
     - RTE 4563 Special Radiographic Procedures 2 hrs
     - RTE 4782 Pathophysiology 2 hrs
     - RTE 4814L Clinical Education II 5 hrs
     - RTE 4824L Clinical Education III 6 hrs
     - RTE 4873 Advanced Imaging Modalities 3 hrs
     - RTE 4894 Clinical Education IV 4 hrs
     - RTE 4385 Radiobiology 1 hr
     - RTE 4844 Clinical Education V 4 hrs
     - RTE 4473 Quality Improvement 3 hrs
     - RTE 4762 Anatomy for the Medical Image 3 hrs
     - RTE 4206 Leadership in Radiologic Sciences 3 hrs
     - RTE 4854 Advanced Clinical Practicum 2 hrs

4. Upper Division Restricted Electives:
   - RTE 4209 Radiologic Adm. Practice 2 hrs
   - RTE 4903 Directed Study Radiologic Education 2 hrs

5. Program Exit Requirements (124 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).

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: (124 hours)
Related Programs: Cardiopulmonary Sciences, Nursing, Health Services Administration
Related Minors: Health Services Administration
Transfer Notes:
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 successful-
ly 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.

Community College Equivalents:
Human Anatomy and Physiology I and II (BSC 2085C and BSC 2086C or BSC 2093C 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 any other Computer Science course 3

Tentative Course Schedule for Entering Freshmen

<table>
<thead>
<tr>
<th>Radiologic Sciences</th>
<th>Fall</th>
<th>12 hrs</th>
<th>Spring</th>
<th>13 hrs</th>
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<tbody>
<tr>
<td>ENC 1101</td>
<td>3</td>
<td>ENC 1102</td>
<td>3</td>
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<td>CGS 1060C</td>
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<td>BSC 2010C</td>
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<tr>
<td>MAC 1105</td>
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<td>MAC 1114</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>CHM 1032</td>
<td>4</td>
<td>ECO 2013 or POS 2041 or ECO 2023</td>
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<tr>
<td>Summer</td>
<td>3 hrs</td>
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<tr>
<td>MUL 2010 or THE 2000 or REL 2300 or PHI 2010 or ARH 2050 or FIL 2400</td>
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<tr>
<td>Sophomore Year</td>
<td>14 hrs</td>
<td>Spring</td>
<td>14 hrs</td>
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<tr>
<td>PHY 2053C</td>
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<td>PCB 3703C</td>
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<td>ZOO 1730C</td>
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<td>EPI 1500</td>
<td>4</td>
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<tr>
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<td>PHY 2054C</td>
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<tr>
<td>or PSY 2012 or SYG 2000 or ANT 2000</td>
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<td>HUM 2230 or AMH 2020</td>
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<tr>
<td>Summer</td>
<td>8 hrs</td>
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<tr>
<td>(Foreign Lang I)</td>
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<tr>
<td>(Foreign Lang II)</td>
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<tr>
<td>if not satisfied in high school</td>
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<tr>
<td>Junior Year</td>
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<td>Spring</td>
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<td>RTE 3000</td>
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<td>RTE 3457C</td>
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<td>RTE 5308</td>
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<td>RTE 4782</td>
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<td>RTE 4473</td>
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<td>RTE 4206</td>
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<td>Electives: RTE 4209 or RTE 4903</td>
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<tr>
<td>Summer</td>
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<td>RTE 4844</td>
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<tr>
<td>RTE 4854**</td>
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<td>**Completed during the Spring or Summer semester/term.</td>
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</table>

RADILOGIC SCIENCES (B.S.)

AS to BS TRACK

Note: For detailed information about this programs, see description in the AS to BS Program section.
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 admit-
ted to the University without the required two units of foreign lan-
guage in high school.)

9. University Minimum Exit Requirements
   - A 2.000 UCF GPA
   - 48 hours of upper division credit completed
   - A maximum of 45 semester hours of extension, correspondence,
     CLEP, Credit by Exam, and Military credit permitted

10. Unrestricted Electives (6 hrs)
As necessary to result in 120 total credit hours.

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 School 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 School 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 Management*
Plan your required nine summer credit hours into your course of study.

Freshman Year
Fall 15 Hrs
   ENC 1101 - Eng Comp I 3 hrs
   Hist/Hist Found Sequence I 3 hrs
   CGS 2100C or STA 2023 3 hrs
   HFT 1000 - Intro to Hosp Man 3 hrs
   PSY 2012, SYG 2000, or ANT 2000 3 hrs
Spring 15 Hrs
   ENC 1102 - Eng Comp II 3 hrs
   SPC 1600 - Fund Oral Comm 3 hrs
   MAC 1105 - College Algebra 3 hrs
   FSS 2221C - Quant Food Prep 3 hrs

Sophomore Year
Fall 15 Hrs
   Science Foundation I 3 hrs
   ECO 2013 or ECO 2023 3 hrs
   HFT 2403 - Hosp Fin Acct 3 hrs
   HFT 2220 - Hosp Hum Res Mgmt 3 hrs
   Junior Year
   Fall 14 Hrs
   HFT 3540 - Guest Svc Mgmt 3 hrs
   HFT 4266 - Rest Brand Mgmt 3 hrs
   HFT 3431 - Hospitality Mgmt Acct 3 hrs
   FSS 4338 - F&B Mgmt in Hosp Ops 3 hrs
   HFT 3940 - Practicum I 1 hr
   HFT 3933 - Dist Lct in Hosp 1 hr
   Spring 16 Hrs
   HFT 3540 - Guest Svc Mgmt 3 hrs
   HFT 4266 - Rest Brand Mgmt 3 hrs
   HFT 3431 - Hospitality Mgmt Acct 3 hrs
   FSS 4338 - F&B Mgmt in Hosp Ops 3 hrs
   HFT 3940 - Practicum I 1 hr
   HFT 3933 - Dist Lct in Hosp 1 hr
   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 4941 - Practicum III 1 hr
   Unrestricted Electives 5 hrs

Senior Year
Fall 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 4941 - Practicum III 1 hr
   Unrestricted Electives 3 hrs

SCIENCE EDUCATION - BIOLOGY (B.S.)

College of Education

Department of Teaching and Learning Principles

ED building, second floor, 407-823-5791
http://www.edcollege.ucf.edu/

Coordinator: Aldrin Sweeney, 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 commu-
nity college or state university
- Have a minimum 2.5 overall GPA
- Pass four parts of the CLAST examination (no alternatives are
  accepted)
- Complete prerequisite courses

Degree Requirements

- Students should see an advisor

1. UCF General Education Program (36 hrs)
   A. Communication Foundations (9 hrs)
      ENC 1101 Composition I 3 hrs
      ENC 1102 Composition II 3 hrs
      SPC 1600 Fundamentals of Oral Communication 3 hrs
   B. Cultural-Historical Foundations (9 hrs)
      AMH 2010 U.S. History 1492-1877 3 hrs
      AMH 2020 U.S. History 1877-Present 3 hrs
      PHI 2010 Introduction to Philosophy 3 hrs
   C. Mathematical Foundations (6 hrs)
      MGF 1106 Finite Mathematics 3 hrs
      Select one: 3 hrs
      STA 1060C Basic Statistics using MS Excel or
      STA 2014C Principles of Statistics
   D. Social Foundations (6 hrs)
      POS 2041 American National Government 3 hrs
      PSY 2012 General Psychology 3 hrs
   E. Science Foundations (6 hrs)
      PSC 1121 Physical Science 3 hrs
      Select one: 3 hrs
      STA 2002 Astronomy or
      GEO 1200 Physical Geography or
      GLY 1030 Geology and its Applications

2. Common Program Prerequisites (31 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: 3 hrs
      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 1001 Cinema Survey
   C. Mathematics (9 hrs)
      MAC 1105 College Algebra 3 hrs
      MGF 1106 Finite Mathematics 3 hrs
      Select one: 3 hrs
      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)
      Select one: 4 hrs
      BSC 2010C General Biology w/Lab
      PSC 1121 Physical Science GEP
      Select one: 3 hrs
      STA 2014C Principles of Statistics
   F. Education Courses (9 hrs)
      EDF 2005 Introduction to Education GEP
      EDF 2701 Teaching Diverse Populations GEP
      EME 2040 Technology for Educators GEP
   G. Diversity Courses (3 hrs)
      Select one: 3 hrs
      AST 2002 Astronomy or
      GEO 1200 Physical Geography or
      GLY 1030 Geology and its Applications
   H. Other Program Prerequisites (12 hrs)
      BSC 2011C Biological Diversity GEP
Science Sequence
CHM 2045C Chemistry Fundamentals I and 4 hrs
CHM 2046 Chemistry Fundamentals II and 4 hrs
or
PHY 2053C College Physics I and 4 hrs
PHY 2054C College Physics II

3. Education Core Requirements (15 hrs)
EDG 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
Students in Schools
LAE 4361 Literacy Strategies for Mid/High School 3 hrs

4. Internship I Block (7 hrs)
SCE 4360 Science Instructional Analysis 4 hrs
ESE 3940 Internship I 3 hrs

5. Specialization Requirements (22 hrs)
PSC 1121 Physical Science GEP
BSC 2011C General Biology GEP
BSC 2011C General Biology GEP
BSC 2011C General Biology GEP
CHM 2045C Chemistry Fundamentals I and 4 hrs
CHM 2046 Chemistry Fundamentals II and 4 hrs
CHM 2046L Chemistry Fundamentals Lab CPP
CHM 2205 Intro to Organic and Biochemistry 5 hrs
PCB 3063 Genetics 3 hrs
PCB 3063L Genetics Lab 1 hr
PCB 3034 Ecology 3 hrs
PCB 3034L Ecology Lab 1 hr
MCB 3020C Microbiology 5 hrs
PCB 3703C Human Physiology 4 hrs
ZOO 3703C Human Anatomy 4 hrs

6. Restricted Electives (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

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)

Total Semester Hours Required 126 hours

SCIENCE EDUCATION - CHEMISTRY (B.S.)
College of Education
Department of Teaching and Learning Principles
ED building, second floor, 407-823-5791
http://www.edcollege.ucf.edu/
Coordinator: Aldrin Sweeney, 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 four parts of the CLAST examination
Complete prerequisite courses

Degree Requirements
Students should see an advisor

1. UCF General Education Program (37 hrs)

A. Communication Foundations (9 hrs)
ENC 1101 Composition I 3 hrs
ENC 1102 Composition II 3 hrs
SPE 1600 Fundamentals of Oral Communication 3 hrs

B. Cultural-Historical Foundations (9 hrs)
AMH 2010 U.S. History 1492-1777 3 hrs
AMH 2020 U.S. History 1777-Present 3 hrs
PHY 2010 Introduction to Philosophy 3 hrs

C. Mathematical Foundations (6 hrs)
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)
POS 2041 American National Government 3 hrs
PSY 2012 General Psychology 3 hrs

E. Science Foundations (7 hrs)
PHY 2053C College Physics (includes lab) 4 hrs
Select one:
AST 2002 Astronomy or
GEO 1200 Physical Geography or
GLY 1030 Geology and its Applications

2. Common Program Prerequisites (23 hrs)

A. Communications (9 hrs)
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP
SPE 1600 Fundamentals of Oral Communication GEP

B. Humanities (6 hrs)
PHI 2010 Introduction to Philosophy GEP
Select one:
ARH 2061 The History of Art II or
MUL 2010 Enjoyment of Music or
THE 2000 Theatre Survey or
FIL 1001 Cinema Survey

C. Mathematics (9 hrs)
MAC 1105 College Algebra 3 hrs
MGF 1106 Finite Mathematics 3 hrs
Select one (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 1492-1777 3 hrs
AMH 2020 U.S. History 1777-Present 3 hrs
POS 2041 American National Government 3 hrs
PSY 2012 General Psychology 3 hrs

E. Science (9 hrs + lab)
BSC 2010C General Biology w/ Lab 4 hrs
PSC 1121 Physical Science GEP
Select one (per GEP)
EDN 2002 Astronomy or
GEO 1200 Physical Geography or
GLY 1030 Geology and its Applications

F. Education Courses (9 hrs)
EDF 2005 Introduction to Education 3 hrs

Note: Internship II includes a 3 SH module on assessment
EDG 2701 Teaching Diverse Populations 3 hrs
EME 2040 Technology for Educators 3 hrs
G. Diversity Courses GE
H. Other Program Prerequisites (4 hrs)
CHM 2045C Chemistry Fundamentals I 4 hrs

3. Education Pre-Professional Requirements (3 hrs)
MAC 1114 College Trigonometry 3 hrs

4. Education Core Requirements (15 hrs)
EDG 4233 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 I 3 hrs
- At least 50% of all required chemistry courses must be completed before doing Internship I
- See additional requirements listed under College of Education, Office of Clinical Experiences

6. Specialization Requirements (27 hrs)
BSC 2040C General Biology GE
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 GE
PHY 2054C College Physics II 4 hrs
CHM 3120C 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 (3 hrs)
One 3000- or 4000- level CHM, CHS, or BCH course with advisor's approval

8. Internship II (ESE 4943) (12 hrs)
SCE 4360 and at least 80% of all required chemistry courses must be completed before doing Internship II
- See additional requirements listed 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

Note: Internship II includes a 3 SH module on assessment

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 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)

Total Semester Hours Required 127 hours

SCIENCE EDUCATION - PHYSICS (B.S.)

College of Education
Department of Teaching and Learning Principles
ED building, second floor, 407-823-5791
http://www.edcollege.ucf.edu/
Coordinator: Aldrin Sweeney, 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 four parts of the CLAST examination
- Complete prerequisite courses

Degree Requirements
- Students should see an advisor

1. UCF General Education Program (36 hrs)
A. Communication Foundations (9 hrs)
ENC 1101 Composition I 3 hrs
ENC 1102 Composition II 3 hrs
SPC 1600 Fundamentals of Oral Communication 3 hrs
B. Historical-Cultural Foundations (9 hrs)
AMH 2010 U.S. History 1492-1877 3 hrs
AMH 2020 U.S. History 1877-Present 3 hrs
PHI 2010 Introduction to Philosophy 3 hrs
C. Mathematical Foundations (6 hrs)
MAC 1105 College Algebra 3 hrs
Select one:
STA 1060C Basic Statistics using MS Excel or
STA 2014C Principles of Statistics
D. Social Foundations (6 hrs)
POS 2041 American National Government 3 hrs
PSY 2012 General Psychology 3 hrs
E. Science Foundations (6 hrs)
PHY 2048 Physics for Engineers & Scientists I 3 hrs
Select one:
AST 2002 Astronomy or
GEO 1200 Physical Geography or
GLY 1030 Geology and its Applications

Note: See laboratory component under Section 2.

2. Common Program Prerequisites (21 hrs)
A. Communications (9 hrs)
ENC 1101 Composition I GE
ENC 1102 Composition II GE
SPC 1600 Fundamentals of Oral Communication GE
B. Humanities (6 hrs)
PHI 2010 Introduction to Philosophy GE
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 1001 Cinema Survey
C. Mathematics (10 hrs)
MAC 1105 College Algebra GE
MAC 2311 Calculus with Analytic Geometry I 4 hrs
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 GE
AMH 2020 U.S. History 1877-Present GE
POS 2041 American National Government GE
PSY 2012 General Psychology GE
E. Science (11 hrs + lab)
BSC 2040C General Biology w/Lab 4 hrs
PHY 2048 Physics for Engineers & Scientists I GE
PHY 2048L Physics Lab for Eng. & Scientists I 1 hr
One of the following (per GEP)
AST 2002 Astronomy or
GEO 1200 Physical Geography or
GLY 1030 Geology and its Applications

Total Semester Hours Required 127 hours
SOCIAL SCIENCES (B.S.)

College of Arts and Sciences

Liberal Studies Program, CNH 201

http://www.cas.ucf.edu/liberal_studies

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

(36 hrs)

A. Communication Foundations

B. Cultural and Historical Foundations

C. Mathematical Foundations

Select one course

D. Social Foundations

Students must earn at least a “C” (2.0) in each core requirement and restricted elective course

1. UCF General Education Program (36 hrs)

E. Science Foundations

Select one course

F. Education Courses

2. Common Program Prerequisites (6 hrs)

Select no more than two lower level Social Science courses depending on disciplines selected. *Asterisk indicates appropriate courses.

3. Core requirements

(3 hrs)

Select one course

4. Restricted Electives

(60 hrs)

Select a minimum of 15 semester hours in each of four Social Science disciplines.

5. Concentration requirements

(15 hrs)

Select a minimum of 15 semester hours in each of four Social Science disciplines.

6. Restricted Electives

(8 hrs)

Students must have declared a Social Sciences major at least one semester before graduation

7. Internship II (ESE 4943) (12 hrs)

Students who change degree programs and select this major must adopt the most current catalog.

8. Foreign Language Requirements

(0-8 hrs)

Students who change degree programs and select this major must adopt the most current catalog.

9. Departmental Exit Requirements

Students must have declared a Social Sciences major at least one semester before graduation

10. University Minimum Exit Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Total Semester Hours Required

125 hours
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: One semester college language or equivalent proficiency exam, or one course with a multicultural dimension from a list of selected courses (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 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 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
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit and 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.

SOCIAL SCIENCE EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles

ED building, second floor, 407-823-5791

http://www.edcollege.ucf.edu/

Coordinator: William Gaudelli, 407-823-0215

E-mail: wgaudell@mail.ucf.edu

1. UCF General Education Program (36 hrs)

A. Communication Foundations (9 hrs)

ENC 1101 Composition I 3 hrs

B. Cultural-Historical Foundations (9 hrs)

AMH 2010 U.S. History 1492-1877 3 hrs

AMH 2020 U.S. History 1877-Present 3 hrs

C. Mathematical Foundations (6 hrs)

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 Science/History (12 hrs)

AMH 2010 U.S. History 1492-1877 3 hrs

AMH 2020 U.S. History 1877-Present 3 hrs

PSY 2012 General Psychology 3 hrs

PSY 1000C Psychological Principles 3 hrs

E. Science Foundations (9 hrs)

One of the following (per GEP) 3 hrs

PHI 2010 Introduction to Philosophy GEP

Select one:

PHI 1201 The History of Art I or

PHI 1202 The History of Art II or

ESE 3940 Internship I 3 hrs

F. Education Courses (9 hrs)

EDF 2005 Introduction to Education 3 hrs

EDG 2701 Teaching Diverse Populations 3 hrs

EME 2040 Technology for Educators 3 hrs

G. Diversity Courses (3 hrs)

FIL 1001 Cinema Survey 3 hrs

THE 2000 Theatre Survey 3 hrs

H. Other Program Prerequisites (6 hrs)

SYG 2000 General Sociology 3 hrs

ECO 2014 Microeconomics 3 hrs

3. Education Core Requirements (15 hrs)

EDG 4302 Professional Teaching Practices 3 hrs

EDG 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

4. Internship I Block (7 hrs)

SSE 4361 Social Science Instructional Analysis 4 hrs

ESE 3940 Internship I 3 hrs

- At least 50% of all required social science courses must be completed before doing Internship I

- See additional requirements listed under College of Education, Office of Clinical Experiences
5. Specialization Requirements (27 hrs)

EHU 2000 Western Civilization I 3 hrs
EHU 2001 Western Civilization II 3 hrs
AMH 2010 US History 1492-1877 GEP
AMH 2020 US History 1877-Present GEP
SYG 2000 General Sociology CPP
ECO 2013 Macroeconomics CPP
ECO 2023 Microeconomics 3 hrs
GEO 3470 World Political Geography 3 hrs
Upper Division Non-Western History Elective: 3 hrs
Upper Division Political Science Electives 6 hrs
Upper Division American History Electives 6 hrs

6. Internship II (ESE 4943) (12 hrs)

- SSE 4361 and at least 80% of all social science 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

Note: Internship II includes a 3 SH module on assessment

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)

Semester Hours Required 122 hours

SOCIAL WORK (B.S.W.)

College of Health and Public Affairs
HPA | 204, 407-823-2114
http://www.cohpa.ucf.edu/social/

Director: Paul Maiden
Undergraduate Program Coordinator: Robin Kohn
E-mail: rkohn@mail.ucf.edu

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 2.0 overall GPA (Note: effective January 2004, a 2.5 GPA will be required)
- 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
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
Select MGF 1106 Finite Math
Select STA 2014C-Principles of Statistics or STA 2023 Statistical Methods I
D. Social Foundations 6 hrs
Select PSY 2012 and POS 2041
E. Science Foundations 6 hrs
Select BSC 1005
Select a listed science course

2. Common Program Prerequisites* (15 hrs)

BSC 1005 Biology GEP
ECO 2013 or ECO 2023 Microeconomics 3 hrs
ECO 2013 Macroeconomics
PSY 2012 Psychology GEP
SYG 2000 Sociology 3 hrs

*See transfer notes

3. Core Requirements (45 hrs)

SOW 3104 Assessing I: Human Development 3 hrs
SOW 3203 Social Welfare and Community Resources 3 hrs
SOW 3300 Practice I: Generalist Practice in Social Work 3 hrs
SOW 3111 Assessing II: Human Systems 3 hrs
SOW 3352 Practice II: Interpersonal Skills in Social Work Practice 3 hrs
SOW 3401 Social Work Research 3 hrs
SOW 3420 Social Work with Minorities 3 hrs
SOW 4431 Evaluating Social Work Practice and Service Programs 3 hrs
SOW 4222 Social Welfare Policies and Issues 3 hrs
SOW 4341 Micro-level Roles and Interventions in Social Work 3 hrs
SOW 4343 Macro-level Roles and Interventions in Social Work 3 hrs
SOW 4510 Field Education 9 hrs
SOW 4522 Field Education Seminar 3 hrs

4. Required Social Work Elective 3 hrs

5. Required Principles of Statistics 3 hrs

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. Foreign Language or Cultural Diversity Requirement
Choose two of the following suggested courses: ANT 3332, ANT 3363, ANT 2410, ANT 3640, ASH 4404, ASH 4442, CPO 4303, HUM 3401, HUM 3417, HUM 3419, JST 3401, JST 3402, LAT 3130, LAH 3200, LAH 3400, LAH 3470, AMH 3561, AMH 3571, AMH 3586, ANT 3302, ANT 3311, ANT 3313, SOP 3724, SOP 3742, SPA 3621, SYD 3700 or see advisor for more options.

9. Departmental Exit Requirements (120 hours)
A minimum overall GPA of 2.5 with at least a grade of “C-” (1.75) or higher in each social work course.

10. University Minimum Exit Requirements
A UCF GPA of 2.0
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)

Related Programs: Criminal Justice, Psychology, Public Administration, Sociology.

Aging Studies Certificate: In recognition of the special needs of the elderly citizens of 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 of 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.

Children's Services Certificate: 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: 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 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.

Introductory Psychology
Introductory Sociology/Social Problems
Principles of Statistics

Tentative Course Schedule for Entering Freshmen

Freshman Year

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<tr>
<th>Fall</th>
<th>14 hrs</th>
<th>Spring</th>
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<tr>
<td>ENC 1101</td>
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<td>ENC 1102</td>
<td>3</td>
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<tr>
<td>BSC 1001</td>
<td>3</td>
<td>MGF 1106</td>
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<tr>
<td>SYG 2000 or PSY 2012</td>
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<tr>
<td>STA 2014C</td>
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<td>MUL 2010 or THE 2000</td>
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<tr>
<td>PAF 2102</td>
<td>2</td>
<td>or REL 2302 or PHI 2010</td>
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<td>POS 2041</td>
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*Plan your required nine summer hours into your course of study

Sophomore Year

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<th>Fall</th>
<th>15/16 hrs</th>
<th>Spring</th>
<th>12/13 hrs</th>
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<tr>
<td>ECO 2013 or ECO 2023</td>
<td>3</td>
<td>Foreign Lang I or</td>
<td>3/4</td>
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<tr>
<td>EUH 2000 or WOH 2012 or</td>
<td>3</td>
<td>Cult Diversity</td>
<td>3</td>
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<tr>
<td>HUM 2211 or AMH 2010</td>
<td>3</td>
<td>CHM 1020 or PSC 1121 or</td>
<td>3</td>
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<tr>
<td>SPC 1600</td>
<td>3</td>
<td>AST 2002</td>
<td>3</td>
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<tr>
<td>Elective</td>
<td>3</td>
<td>EUH 2001 or</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Lang I or Cult Diversity</td>
<td>3/4</td>
<td>HUM 2230 or AMH 2020</td>
<td>3</td>
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<tr>
<td>Summer</td>
<td>6 hrs</td>
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<tr>
<td>Elective</td>
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Junior Year

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<td>SOW 3203</td>
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<td>SOW 3352</td>
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<td>SOW 3300</td>
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<td>SOW 3401</td>
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<tr>
<td>SOW Elective</td>
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<td>SOW 3420</td>
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<td>STA 2014C</td>
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<td>Elective</td>
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<tr>
<td>Senior Year</td>
<td>15/18 hrs</td>
<td>Spring</td>
<td>13 hrs</td>
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<tr>
<td>SOW 4232</td>
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<td>SOW 4510</td>
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<td>SOW 4341</td>
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<td>SOW 4522</td>
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<td>SOW 4343</td>
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<td>1</td>
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<td>SOW 4431</td>
<td>3</td>
<td>Elective (if necessary)</td>
<td>3</td>
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SOCIOLY (B.A.)
College of Arts and Sciences
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 employ a sociological perspective 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 or internship credit cannot be used in this major
- Students should consult annually 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 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 1105 College Algebra (or higher) 3 hrs
      Select STA 2023 Statistical Methods I 3 hrs
   D. Social Foundations
2. Common Program Prerequisites none

3. Core requirements (21 hrs)
   - SYA 3300 Research Methods 4 hrs
   - SYA 3400 Research Methods and Statistics 4 hrs
   - SYA 4450 Data Analysis 4 hrs
   - SYG 2000 General Sociology 3 hrs
   - Select one course 3 hrs
   - SYA 3110 Development of Social Thought 3 hrs
   - SYA 3120 Modern Sociological Thought 3 hrs
   - SYA 4930 Advanced Research 3 hrs
   - SYO 3530 Social Stratification 3 hrs
   - SYO 4400 Medical Sociology 3 hrs
   - SYO 4300 Political Sociology 3 hrs
   - SYO 3530 Social Stratification 3 hrs
   - SYO 3520 Criminology 3 hrs
   - SYO 3530 Juvenile Delinquency 3 hrs
   - SYO 3540 Sociology of Law 3 hrs
   - SYO 3551 Sociology of Alcoholism 3 hrs
   - SYO 3602 Sociology of Popular Music 3 hrs
   - SYO 3630 Sociology of Popular Culture 3 hrs
   - SYO 3650 Sociology and Sport 3 hrs
   - SYO 4000 Sociological Social Psychology 3 hrs
   - SYO 4004 Constructing Social Issues 3 hrs
   - SYO 4323 Social Systems and Diversity 3 hrs
   - SYO 4510 Environmental Sociology 3 hrs
   - SYO 4514 Sociology of Violence 3 hrs
   - SYO 4521 CriminalVictimization in Society 3 hrs
   - SYO 4536 Gangs and Society 3 hrs
   - SYO 4550 Sociology of Drug Abuse 3 hrs
   - SYO 4730 Sociology of Aging 3 hrs
   - SYO 4734 Minority Aging 3 hrs
   - SYO 4810 Women in Contemporary Society 3 hrs
   - SYO 5526 Sociological Criminology 3 hrs
   - SYO 5562 Seminar on Domestic Violence 3 hrs

4. Restricted Electives (24 hrs)
   - Select eight courses from the following
     - SYA 4930 Advanced Research 3 hrs
     - SYA 4940 Internship 3 hrs
     - SYA 4950 Internship 3 hrs
     - SYA 4960 Seminar 3 hrs
     - SYA 4965 Internship 3 hrs
     - SYA 4970 Internship 3 hrs
     - SYA 4975 Internship 3 hrs
     - SYA 4980 Internship 3 hrs
     - SYA 4990 Internship 3 hrs
     - SYA 4995 Internship 3 hrs
     - SYA 4998 Internship 3 hrs

5. Departmental Exit Requirements
   - A minimum GPA of 2.0 in all courses used for the major
   - A minimum 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: Two semesters or equivalent proficiency exam and either a third semester/proficiency or an approved enhancement course. A list of approved enhancement courses is available from the department.

7. Electives (variable)
   - Select primarily from upper level courses, with departmental advisor’s approval. These courses 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: 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.

SPANISH (B.A.)

College of Arts and Sciences
Department of Foreign Languages & Literatures, CNH 523
http://pegasus.cc.ucf.edu/~forlang
E-Mail: foreignlanguage@ucf.edu
C. E. Stebbins, 407-823-2472

Admission Requirements none

Placement in Language courses
   - 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 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 submit 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 Foreign 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 Foreign 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
Select 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 (0-14 hrs)
SPN 1120* Elem Spanish Lang & Civ I 4 hrs
SPN 1121* Elem Spanish Lang & Civ II 4 hrs
SPN 2230* Interim Spanish Lang & Civ I 3 hrs
SPN 2231* Interim Spanish Lang & Civ II 3 hrs
* May be met by proficiency test or completion of SPN 2231

3. Core requirements (15 hrs)
SPN 3300* Advanced Grammar 3 hrs
SPN 3420* Composition 3 hrs
SPN 3760* Adv Spanish Oral Comm 3 hrs
SPW 3100 & 3101 Survey of Spanish Literature or or 6 hrs
SPW 3130 & 3131 Survey of Latin-American Literature *A native or near-native Spanish speaker must substitute an alternate upper division Spanish course in consultation with a departmental advisor.

4. Upper Division Restricted Electives (21 hrs)
Select one of the following 3 hrs
FOL 3730 Romance Philology
SPN 4801 Spanish Morphosyntax
SPN 4800 Spanish American Syntax
SPN 4780 Spanish Phonetics
SPN 3852 Bilinguismo
Spanish literature beyond the survey level (taught in Spanish) 6 hrs
Culture and Civilization: SPN 4510 Spanish Civilization & Culture or
SPN 4520 Latin American Civilization & Culture 3 hrs
Spanish courses 9 hrs

5. Departmental Exit Requirements
- Earn a grade of “C” (2.0) or higher in at least 36 hours of upper division Spanish courses
- Students are required to satisfactorily complete a departmental exit exam. The exam is offered each September and February; students should discuss the optimal test date with their advisor.
- Computer Competency met by CGS 1000C 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 hours

Related Programs: French, Foreign Language Combination
Related Minors: French, Italian, Judaic Studies, Latin American and Iberian Area Studies, Russian 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.
- Native speakers, or students who have received advanced education in Spanish-speaking societies, may not take lower division Spanish courses. They must substitute Third-year level composition and conversation courses.

SPORTS AND FITNESS (B.S.)
AS to BS Track
Note: For detailed information about this program, see the description in the AS to BS Program section.

STATISTICS (B.S.)
College of Arts and Sciences
Department of Statistics, CC II 212, 407-823-2289
http://www.cas.ucf.edu/statistics
E-mail: statistics@ucf.edu
L. Hoffman, 407-823-5525

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 preceded 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 (39 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 7 hrs
   - Select MAC 2311 Calculus I 4 hrs
   - Select STA 2023 Statistical Methods I 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations
   - Select BSC 2010C General Biology 4 hrs
   - Select PHY 2053C College Physics or
   - CHM 2045C Chemistry Fundamentals 4 hrs

2. Common Program Prerequisites (7 hrs)
   COP 3502C* Computer Science I 3 hrs
   MAC 2311 Calculus I GEP
   MAC 2312 Calculus II GEP
   BSC 2010C* General Biology GEP
   *See Transfer Notes for possible substitutes

3. Core requirements (51 hrs)
   STA 2024 Statistical Methods I GEP
   STA 4102 Computer Process of Stat Data 3 hrs
   STA 4165 Statistical Methods II with Computer 3 hrs
   STA 4164 Statistical Methods III 3 hrs
   STA 4321 Statistical Theory I 3 hrs
   STA 4322 Statistical Theory II 3 hrs
   COP 4500 Numerical Calculus 3 hrs
   MAC 2313 Calculus with Analytic Geo III 4 hrs
   ENC 3241 Technical Report Writing 3 hrs
   COP 3223 C Language* 3 hrs
   *may substitute an approved programming language course
   Select one course 4 hrs
   MAS 3106 Linear Algebra
   MAS 3105 Elementary Linear and Matrix Algebra
   Select one course 3 hrs
   COT 3100C Introduction to Discrete Structure
   MHF 3302 Logic and Proof in Mathematics
   Select three from among the following: 9 hrs
   STA 3096 Statistical Graphics
   STA 4173 Biostatistical Methods
   STA 4222 Sample Survey Methods
   STA 4502 Nonparametric Stat Methods
   STA 4664 Statistical Quality Control
4. Restricted Electives (6 hrs)
- Select from upper division or graduate statistics (e.g., STA 5205, STA 5825), mathematics, or computer science courses
- Select courses in engineering or business may be used but must first be approved by the Statistics Department
- MAC 2233, 2253, 2254; all MAE courses; and MHF 4404 may not be used

5. Departmental Exit Requirements
- Earn a grade of “C” (2.0) or better in each STA course
- Computer Competency met by STA 4102

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 (Note: Statistics majors may count MAC 2313 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: Mathematics, Mathematics Education, Actuarial Science Track

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. However, COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken.
- BSC 2010C: any laboratory BSC, CHM, or PHY course. However, this is a prerequisite for BSC 2011C and will need to be taken.

STATISTICS - ACTUARIAL SCIENCE TRACK (B.S.)

See Actuarial Science (B.S.)
TPA 3197  Summer Theatre Studio/Tech/Design  3 hrs
TPA 3195  Theatre Studio/Tech/Design  3 hrs
TPA 3601  Stage Management  3 hrs
TPA 3044C  Costume History II  3 hrs
TPA 4400  Theatre Management  3 hrs
TPP 3197  Summer Theatre/Performance  3 hrs
TPP 3952  Studio Performance  3 hrs

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 theatre production
- Computer Competency met by computer science course

6. Foreign Language Requirements  (0-8 hrs)
Admission: Met by graduation requirement
Graduation: Two semesters or equivalent proficiency exam.

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 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: Film, Music, Theatre BFA
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:
- 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 3305: may use THE 2300
- THE 2090: may use THE 2925
- TPA 2290: may use TPA 1290
- TPP 2190: may use TPP 1190
- TPP 2110: may use TPP 2210 or THE 2271
- TPA 2210: may use THE 2261

THEATRE (B.F.A.)
College of Arts and Sciences
Department of Theatre, THE 120 407-823-2861
http://pegasus.cc.ucf.edu/~theatre
E-mail: theatre@ucf.edu
Rusnock, 407-823-2399

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 performance, stage management, or design/tech. The 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 Chair.
- The departmental faculty evaluates students desiring to become majors via an interview, audition, and portfolio review. For complete information, contact the Department of Theatre.
- A performance major must be interviewed and perform two monologues of contrasting styles limited to a combined time of 3 minutes
- Performance majors interested in musical theatre should prepare a ballad, with taped musical accompaniment, in addition to their monologues
- Design/Tech track requires 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.
- Three-dimensional pieces can be submitted in slide format. For details, contact the Department of Theatre.
- 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 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 evaluation
- Co-op or internship credit cannot be used in this major
- Students must consult with a departmental advisor
- Departmental Residence Requirement consists of 60 semester hours of regularly scheduled courses taken from the UCF Theatre Department
- All theatre students should participate, in some capacity, on two of the three main-stage productions during both Fall and Spring semesters. Students failing to successfully participate will be placed on probation for one semester. Continued failure may result in being dropped as a major
- All theatre students must include a participation credit course during every semester
- All BFA performance 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 curriculum. Therefore, transfer students are not generally encouraged to pursue a BFA program. However, exceptionally talented students who have completed the General Education Program and the Common Program Prerequisites before transferring within 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 SPC 1050 Fund Oral Communication 3 hrs
- Select two semesters of English Composition 6 hrs
B. Cultural and Historical Foundations
- Select one 2 semester sequence 6 hrs
- Select THE 2000 Survey of Theatre 3 hrs
C. Mathematical Foundations
- Select MGF 1106 Finite Mathematics 3 hrs
- Prefer CGS 1060C Intro to Computer Sci or
- CGS 2100C Computer Fund for Business 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites  (12 hrs)
THE 2020* Survey of Theatre for majors  GEP
THE 3305* Dramatic Literature I 3 hrs
TPA 2290* Theatre Production/Performance I 1 hr
TPA 2290* Theatre Production/Performance I 1 hr
TPA 2290* Stagecraft I 3 hrs
TPP 2110* Theatre Production/Performance I 1 hr
TPP 2110* Acting I - Introduction 3 hrs

*See Transfer Notes for possible substitutes
3. Core Requirements (18 hrs)

TPA 2211 Stagecraft I 3 hrs
TPP 3650 Script Analysis 3 hrs
THE 3306 Dramatic Literature II 3 hrs
THE 3110 Theatre History I 3 hrs
THE 3111 Theatre History II 3 hrs
TPP 3310C Directing I 3 hrs

4. Specialization: select one area (60 hrs)

Performance Specialization
TPP 2170C Acting II - Fundamentals 3 hrs
DAA 2200C Ballet I 3 hrs
TPP 2710C Voice Production I 3 hrs
TPP 3172C Acting III - Characterization 3 hrs
TPP 4193 Thea. Prod./Perf. IV 1 hr
TPP 4194 Thea. Prod./Perf. V 1 hr
DAA 2201C Ballet II 3 hrs
TP 3512C Stage Combat 3 hrs
TP 3257 Music Thea. Voice I 3 hrs
TP 3258 Musical Theatre Voice II 3 hrs
TP 3711C Voice Production II 3 hrs
TP 3712C Voice Production III 3 hrs
TP 3730C Voice Production IV 3 hrs
TP 4140C Acting IV - Studio 3 hrs
TP 4142C Acting V - Verse 3 hrs
TP 4265C Acting for TV/Film 3 hrs
TP 4531C Period Movement 3 hrs
TP 4940 Theatre Performance Internship 6 hrs
TP 2248C Makeup Techniques 3 hrs
TP 3223 Marketing Yourself in Theatre 3 hrs
DAA 2570C Theatre Jazz Dance 3 hrs
Restricted electives (see list of courses) 7 hrs

Stage Management Specialization
TPA 4002 Advanced Stage Management 3 hrs
TPA 4400 Theatre Management 3 hrs
TPP 2170C Acting II - Fundamentals 3 hrs
TPA 2000C Theatre Design Basics 3 hrs
TPA 2220 Stage Lighting 3 hrs
TPA 2248C Makeup Techniques 2 hrs
TP 3060 Scene Design I 3 hrs
TPA 3216C Stagecraft III 3 hrs
TP 3221 Lighting Design 3 hrs
TP 3230 Costume Construction 3 hrs
TPA 3197 Summer Theatre Tech 3 hrs
TPA 3195 Theatre Studio Tech 3 hrs
TP 3294 Thea. Prod./Perf. IV 1 hr
TP 4295 Thea. Prod./Perf. V 1 hr
TP 3601 Stage Management 3 hrs
TP 3260 Sound Design for Theatre 3 hrs
TPA 4940 Design/Tech Internship 6 hrs
TP 3223 Marketing Yourself in Theatre 3 hrs
Restricted electives (see list of courses) 8 hrs

Design/Tech Specialization
TPA 2220 Stage Lighting 3 hrs
TPA 2000C Theatre Design Basics 3 hrs
TP 3040 Costume Design 3 hrs
TP 3043C Costume History I 3 hrs
TP 3043C Costume History II 3 hrs
TPA 3060 Scene Design I 3 hrs
TPA 3061 Scene Design II 3 hrs
TP 3077 Scene Painting 2 hrs
TPA 3216C Stagecraft III 3 hrs
TP 3221 Lighting Design 3 hrs
TPA 3197 Summer Theatre Tech 3 hrs
TPA 3195 Theatre Studio Tech 3 hrs
TPA 3230 Costume Construction 3 hrs
TP 3250 Cadd for Theatre 2 hrs
TP 3261 Advanced CADD for Theatre 2 hrs
TP 4234 Thea. Prod./Perf. IV 1 hr
TP 3260 Sound Design for Theatre 3 hrs
TPA 4940 Technical Theatre/Design Internship 6 hrs
TP 3223 Marketing Yourself in Theatre 3 hrs
Restricted electives (see list of courses) 5 hrs

5. Restricted Electives (see specializations)

Chosen from the following
THE 3300 Cultural Diversity - Theatre 3 hrs
THE 3240 Musical Theatre Survey 3 hrs
THE 5307 Contemporary. Thea. Prac. 3 hrs
THE 4372 Drama of Tenn. Williams 3 hrs
TPA 3197 Summer Theatre Studio/Design 3 hrs
TPA 3195 Theatre Studio/Design 3 hrs
TPA 3601 Stage Management 3 hrs

TPA 4400 Theatre Management 3 hrs
TPP 3197 Summer Theatre Perform. 3 hrs
TPP 3952 Studio Performance 3 hrs

6. Departmental Exit Requirements
- Earn grade of "C" (2.0) or better in each Theatre course
- Take a Departmental Exit Examination
- Computer Competency met by Computer Science courses

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. Electives none

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 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 BA
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:
- THE 2020: may use any introductory course. However, THE 2020 is a prerequisite for all theatre courses and must be taken.
- THE 3305: may use THE 2300
- THE 2090: may use THE 2925
- TPA 2290: may use TPA 1290
- TTP 2110: may use TTP 1190
- TTP 2110: may use TTP 2210 or THE 2271
- TTP 2210: may use THE 2261

THEATRE - MUSICAL THEATRE TRACK (B.F.A.)
College of Arts and Sciences
Department of Theatre, THE 120 407-823-2861
http://pegasus.cc.ucf.edu/~theatre
E-mail: theatre@ucf.edu

The Bachelor of Fine Arts Track in Musical Theatre has been developed to serve those students interested in a career in the entertainment industry and the musical theatre stage. It is offered for students who, upon graduation, plan to pursue a specialized career in professional theatre.

Because of its geographic location, UCF is a top choice for students interested in musical theatre. Disney, Universal, 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 Chair.
- The departmental faculty evaluates students desiring to become majors via an interview, audition, and portfolio review. For comprehensive information, contact the Department of Theatre.
- A major must be interviewed and perform one monologue limited to one minute.
- A major must prepare two ballads, in addition to their monologue, limited to a combined time of 2 minutes. An accompanist will be provided.
- 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 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 evaluation.
- Co-op or internship credit cannot be used in this major.
- Students must consult with a departmental advisor.
- Departmental Residency Requirement consists of 60 semester hours of regularly scheduled courses taken from the UCF Theatre Department.
- All theatre students should participate, in some capacity, on two of the main-stage productions during both Fall and Spring semesters.
- Students failing to successfully participate will be placed on probation for one semester. Continued failure may result in being dropped as a major.
- All theatre students must include a participation credit course during every semester.
- All BFA performance 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 curriculum. Therefore, transfer students are generally encouraged to pursue a BFA program. However, exceptionally talented students who have completed the General Education Program and the Common Program Prerequisites before transferring within 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 SPC 1600 Fund Oral Communication
      - Select two semesters of English Composition
   B. Cultural and Historical Foundations
      - Select one 2 semester sequence
      - Select THE 2000 Survey of Theatre
   C. Mathematical Foundations
      - Select MGF 1106 Finite Mathematics
      - (may substitute a higher level math)
   D. Social Foundations
      - Select any 3000 level course
   E. Science Foundations
      - Select any 1000 level course

2. Common Program Prerequisites (12 hrs)
   - THE 2020* Survey of Theatre for majors
   - THE 3305* Survey of Dramatic Literature
   - THE 2590* Theatre Production/Performance I
   - TPA 2290* Theatre Production/Performance I
   - TPA 2309* Theatre Production/Performance I
   - TPA 2510* Theatre Production/Performance I
   - TPA 2190* Theatre Production/Performance I
   - TPA 2150* Theatre Production/Performance I
   - *See Transfer Notes for possible substitutes

3. Specialization: Lower Division (24 hrs)
   - MUT 3004 Music Fundamentals I
   - MUT 3002 Music Fundamentals II
   - TPP 2170C Acting II - Fundamentals
   - DAA 2200C Ballet I
   - DAA 2201C Ballet II
   - DAA 2570C Theatre Jazz Dance I

4. Specialization: Upper Division (54 hrs)
   - TPP 3172C Acting III - Characterization
   - TPP 3590 Musical Theatre Acting Perf I
   - TPP 3525 Musical Theatre Acting Perf II
   - TPP 4253 Musical Theatre Acting Perf III
   - TPP 3241 Survey of Musical Theatre I
   - TPP 4242 Survey of Musical Theatre II
   - TPP 3223 Theatre Careers
   - TPP 4351C Period Movement
   - TPP 3512C Stage Combat
   - TPP 4255 Musical Theatre Cabaret
   - TPP 2248C Make-up Techniques
   - THE 3110 Theatre History I
   - TPA 2290* Stagecraft I
   - TPP 2190* Theatre Production/Performance I
   - THE 2090* Theatre Production/Performance I
   - TPP 2020* Theatre Production/Performance I
   - THE 2271C Acting III - Characterization
   - THE 2170C Stagecraft I
   - DAA 2571C Theatre Jazz Dance II
   - DAA 2520C Theatre Tap Dance I

5. Departmental Exit Requirements
   - Earn a grade of “C” (2.0) or better in each Theatre course
   - Take a Departmental Exit Examination
   - Computer Competency met by Computer Science 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. Electives 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
   - 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 129 hours

Related Programs: Film, Music, Theatre BA
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:
- 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 3305: may use THE 2300 or THE 3303 or TPP 3650
- THE 2090: may use THE 2925
- TPA 2290: may use TPA 1290
- TPP 2190: may use TPA 1190
- TPP 2110: may use TPP 2210 or THE 2271
- TPP 2210: may use THE 2261
VOCATIONAL Degree Programs

INDUSTRY Training (B.S.)

College of Education

Department of Teaching and Learning Principles

ED building, second floor 407-823-5791
http://www.edcollege.ucf.edu/
Coordinator: Larry Hudson, 407-823-2848,
E-mail: hudson@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
- Meet the University CLAST or CLAST alternative criteria (Track 1).
- Pass four parts of the CLAST examination (Track 2)
- Complete prerequisite courses

Degree Requirements

- Students should see an advisor

Track 1: For students in non-state-certified Vocational Education and Industry Training

1. UCF General Education Program (36 hrs)

A. Communication Foundations (9 hrs)
   ENC 1101 Composition I
   ENC 1102 Composition II
   ENC 1103 Communication
   Select one:
   STA 1060C Basic Statistics using MS Excel or
   STA 1006C Principles of Statistics

B. Cultural-Historical Foundations (9 hrs)
   EVT 3365 Finite Mathematics
   STA 1006C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics

C. Mathematical Foundations (6 hrs)
   STA 2014C Principles of Statistics
   STA 2006C Introduction to Philosophy
   STA 2014C Principles of Statistics

D. Social Foundations (6 hrs)

E. Science Foundations (6 hrs)

2. Common Program Prerequisites (9 hrs)

EDF 2005 Introduction to Education
EDF 2703 Teaching Diverse Populations
EME 2040 Technology for Educators

3. Program Core Requirements (27 hrs)

EVT 3365 Gen Method/Test Eval
EVT 3062 Professional Role Voc Ed Teacher
EVT 3312 Course Const Health Occ Ed
EVT 3502 Special Needs Voc Ed Students
EVT 4065 Principles of Voc Ed
EVT 4368 Adv Teaching/Techniques in Voc Ed
EVT 3367 Eval Vocation Training
EVT 4169 Cur Dev of Ind Training
AEC 4302 Teaching Adult Learners

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 Semester Hours Required 120 hours

Track 2: For students seeking state level teacher certification in Business Education (6-12) from the Florida Department of Education

1. UCF General Education Program (36 hrs)

A. Communication Foundations (9 hrs)
   ENC 1101 Composition I
   ENC 1102 Composition II
   ENC 1103 Communication
   Select one:
   STA 1060C Basic Statistics using MS Excel or
   STA 1006C Principles of Statistics

B. Cultural-Historical Foundations (9 hrs)
   EVT 3365 Finite Mathematics
   STA 1006C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics

D. Social Foundations (6 hrs)
   ECO 2013 Macroeconomics
   PSC 1121 Physical Science

E. Science Foundations (6 hrs)
   PSC 1121 Physical Science

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
   Select one:
   STA 1060C Basic Statistics using MS Excel or
   STA 1006C Principles of Statistics

B. Humanities (6 hrs)
   ARH 2051 The History of Art I or
   ARH 2052 The History of Art II
   Select one:
   THE 2000 Theatre Survey or
   FIL 1001 Cinema Survey

C. Mathematics (9 hrs)
   MAC 1105 College Algebra
   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
   Select one:
   PSC 1121 Physical Science
   PSC 1121 The Human Species or
   ECO 2013 Macroeconomics
   ECO 2013 Macroeconomics
   PSY 2012 General Psychology

E. Science Foundations (9 hrs + lab)
   Select one:
   PSC 1121 Physical Science
   BSC 1005 Biological Principles
   Select one:
   ANT 2511 The Human Species or
   BSC 1005 Biological Principles
   Select one:
   THE 2000 Theatre Survey or
   FIL 1001 Cinema Survey

2003-2004 Undergraduate Catalog
F. Education Courses (9 hrs)
- EDF 2005 Introduction to Education 3 hrs
- EDG 2701 Teaching Diverse Populations 3 hrs
- EME 2040 Technology for Educators 3 hrs

G. Diversity Courses GEP

H. Other Program Prerequisites (15 hrs)
- ACG 2023 Principles of Accounting I & II 6 hrs
- ECO 2013 Macroeconomics GEP
- ECO 2023 Microeconomics 3 hrs
- Elective in Business Administration (see advisor) 3 hrs

3. Education Core Requirements (12 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 Students in Schools 3 hrs
- LAE 4361 Literacy Strategies for Middle and High School 3 hrs

4. Program Core Requirements (21 hrs)
- EVT 3365 Gen Method/Test Eval 3 hrs
- EVT 3062 Professional Role Voc Ed Teacher 3 hrs
- BTE 4410 Course Construction in Business Ed 3 hrs
- EVT 3502 Special Needs Voc Ed Students 3 hrs
- EVT 4065 Princip/Prac Voc Ed 3 hrs
- EVT 4368 Adv Teaching/Techniques in Voc Ed 3 hrs
- EVT 3367 Eval Vocation Instruction 3 hrs

5. Occupational Specialization Requirements (15 hrs)
Total occupational specialization requirement is 30 SH, 15 of which are met by courses selected under section H of common program prerequisites. An additional 15 SH of upper level courses are required to fulfill this requirement. See advisor.

6. Directed Field Experience (12 hrs)
- Occupational specialization and all course requirements must be completed before directed field experience
- Satisfactory completion of directed field experience 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

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)

Total Semester Hours Required 127 hours
MINORS, CERTIFICATES, AND STUDY ABROAD

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.

Minor
Accounting
Addictions Certificate
Aerospace Studies
African - American Studies
Aging Studies Certificate
Aging Studies
American Humanics
American Sign Language Certificate
American Studies
Anthropology
Anthropology in Multicultural Studies
Art History
Art - Studio
Asian Studies
Astronomy
Behavioral Forensics Certificate
Biology
Business
Chemistry
Children's Services Certificate
Coaching
Communicative Disorders
Community Arts - PAVE
Computer Information Technology
Computer Science
Computer Science - Applied
Crime Analysis and Crime Mapping Certificate
Criminal Justice
Criminal Profiling Certificate
Cultural Tourism Certificate
Digital Media
Digital Media Certificate
Early Childhood Education
e-Business
Economics
Emergency Management
English - Creative Writing
English - Linguistics
English - Literature
English - Technical Writing and Editing
English - Writing
Environmental Studies
Exceptional Education
Film - Cinema Studies
Fitness Training
French
German
Health Information Management
Health Sciences
Health Services Administration
History
Hospitality Management
Humanities
International Business
Interpersonal Communication
Italian
Jazz Studies Certificate
Judaic Studies
Language Development and Disorders Certificate
Latin American Area Studies
Legal Studies
Magazine Journalism
Management Information Systems
Marketing
Marketing Certificates
Mass Communication
Mathematics
Middle Eastern Studies
Military Science
Molecular Biology and Microbiology
Music
Music Technology Certificate
Non-Profit Management Certificate
North American Indian Studies
Organizational Communication
Philosophy
Physics
Political Science
Political Science/Prelaw
Psychology
Public Administration
Religious Studies
Russian Area Studies
Security Management Certificate
Social Sciences - Interdisciplinary
Sociology
Space Studies
Spanish
Statistics
Technology and Society
Theatre - General
Translation and Interpretation Certificate
Urban and Regional Planning
Vocational Education and Industry Training
Women's Studies
Women's Studies Certificate

Additional UCF Programs
Foreign Study Abroad Program:
Canada
Dominica
France
Germany
Italy
Japan
Jordan
South Africa
Spain

English Study Abroad Program:
Mexico
Scotland
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:
- ACG 2021 Principles of Financial Accounting: 3 hrs
- ACG 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):
  - ACG 3131 Financial Accounting Concepts and Analysis: 3 hrs
  - ACG 3361 Intermediate Managerial Accounting: 3 hrs

Restricted Electives:
Select four from the following (at least two courses must have either an ACG or TAX prefix):
- ACG 3131 Financial Accounting Concepts and Analysis: 3 hrs
- ACG 3361 Intermediate Managerial Accounting: 3 hrs
- ACG 3101 Accounting and Auditing in the Public Sector: 3 hrs
- ACG 4401 Accounting Information Systems: 3 hrs
- ACG 4651 Auditing: 3 hrs
- ACG 4671 Internal Auditing: 3 hrs
- ACG 4932 Special Topics Courses in Accounting: 3 hrs
- TAX 4XXX Taxation of Business Entities and Transactions: 3 hrs
- FIN 3414 Intermediate Corporate Finance: 3 hrs
- FIN 4453 Financial Models: 3 hrs
- ISM 3005 MIS Techniques: 3 hrs
- ISM 4212 Database Management Systems: 3 hrs

Other Requirements:
- A grade of “C” (2.0) 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
Lt Col Timothy D. Wieck, 407-823-1247

Credit Hour Requirements: 16 hours

Required Courses:
- AFR 1101 The Air Force Today I: 1 hr
- AFR 1111 The Air Force Today II: 1 hr
- AFR 2130 The Development of Air Power I: 1 hr
- AFR 2131 The Development of Air Power II: 1 hr
- AFR 3220 Air Force Leadership and Management I: 3 hrs
- AFR 3230 Air Force Evaluation and Management II: 3 hrs
- AFR 4201 Nat Sory Forces in Cont Am Soc I: 3 hrs
- AFR 4210 Nat Sory Forces in Cont Am Soc 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 Sciences
African American Studies Program, CNH 201M
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. Fine Arts, History, English, Foreign Languages and Literatures, Political Science, Psychology, Sociology, Anthropology, Film, and Theatre.

Credit hour Requirements: 18 hours

Required Courses:
- AFR 3104 The African American Experience: 3 hrs
- AMH 3571 Black American History I: 3 hrs

Restricted Electives:
- AFR 3955 Study Abroad in the Caribbean: 3 hrs
- AMH 3100 African History to 1870: 3 hrs
- AMH 3200 African History Since 1870: 3 hrs
- AMH 3572 Black American History II: 3 hrs
- AML 3614 Topics in African-American Literature: 3 hrs
- AML 3615 Harlem, Haiti, & Havana: 3 hrs
- ARH 3520 African Art: 3 hrs
- INR 3253 International Politics of Africa: 3 hrs
- FIL 3412 Black Cinema: 3 hrs
- LAH 3470 History of the Caribbean: 3 hrs
- LAS 4023 Afr Caribbean Experience: 3 hrs
- LIT 3192 Caribbean Literature: 3 hrs
- MUL 2016 Evolution of Jazz: 3 hrs
- POS 4222 Politics & Civil Rights: 3 hrs
- PUP 3314 Minorities in American Politics: 3 hrs
- SOP 3724 The Psychology of Racial Prejudice: 3 hrs
- SYD 3700 Race and Ethnic Minorities in the U.S.: 3 hrs

Additional courses may be used only with the prior permission of the program director.

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.

AGING STUDIES: Certificate
College of Health and Public Affairs
School of Social Work, HPA 204

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...
Minors, Certificates and Study Abroad

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.

Credit Hour Requirements

Required Course 15 hours

GEY 3001 Gerontology: Interdisciplinary Overview 3 hrs

Required Internship: 120 hours Select one 3 hrs

SOW 4510 Field Education 3 hrs

HSA 4941 Internship 3 hrs

PSY 3951 Internship 3 hrs

SYP 4941 Internship 3 hrs

Electives

Students select three additional courses from the following: A maximum of two courses in their major and at least one course must be outside their college. Courses may be selected from any 5000 level courses in the graduate certificate program.

College of Health and Public Affairs

HSA 4220 Long Term Care 3 hrs

HSA 3210 Long Term Administration 3 hrs

HSC 4564 Health Care Needs of the Elderly 3 hrs

NUR 4286 Gerontologic Nursing 3 hrs

PLA 4222 Legal Issues of the Elderly 3 hrs

SOW 4645 Social Services for the Elderly 3 hrs

College of Arts & Sciences

SYP 4360 Sociology of Aging 3 hrs

GEY 3930 Women and Aging 3 hrs

SYP 3930 Literature of 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 certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study credit cannot be used toward the minor.

AGING STUDIES: Minor

College of Health and Public Affairs

School of Social Work, HPA 204

School of Social Work, 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

Required Courses 18 hours

GEY 3001 Gerontology: Interdisciplinary Overview 3 hrs

Required Internship: 120 hours; Select one 3 hrs

SOW 4510 Field Education 3 hrs

HSA 4941 Internship 3 hrs

PSY 3951 Internship 3 hrs

SYP 4941 Internship 3 hrs

Electives 12 hrs

Students select four additional courses from the following: A maximum of two courses in their major and at least two courses must be outside their college. Courses may be selected from any 5000 level courses in the graduate certificate program.

College of Health and Public Affairs

HSA 4220 Long Term Care 3 hrs

HSA 3210 Long Term Administration 3 hrs

HSC 4564 Health Care Needs of the Elderly 3 hrs

NUR 4286 Gerontologic Nursing 3 hrs

PLA 4222 Legal Issues of the Elderly 3 hrs

SOW 4645 Social Services for the Elderly 3 hrs

College of Arts & Sciences

SYP 4360 Sociology of Aging 3 hrs

GEY 3930 Women and Aging 3 hrs

SYP 3930 Literature of Aging 3 hrs

College of Health and Public Affairs

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.
- Independent Study credit may not be used toward the minor.

AMERICAN HUMANICS: MINOR

American Humanities Minor with National Certificate

American Humanics Minor with National Certificate

College of Health and Public Affairs

P.O. Box 163224

Orlando, Florida 32816-3224

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 can result in a National Certification in American Humanics Academic Program. Requirements for the minor are the same as for national certification.

Credit Hour Requirements

Required Courses (19 credit hours)

PAF XXXX American Humanities Service Workshop 4 hrs

(1 credit repeated four semesters)

PAF 4948 American Humanities Internship 3 hrs

* Internships within other programs may be accepted with prior approval of American Humanities advisor.

Generalist Emphasis

Restricted Electives (12 credit hours)

Choose at least one course from each of the following four groups.

Group I: General Nonprofit Management, Volunteerism

and Human Development 3 hrs

EDG 4941 Directed Field Experience

PAD 4144 Nonprofit Organizations

PAD 4148 Volunteer Management

*SOW XXXX Social Welfare

*PAD 4325 Program Evaluation for the Public and Nonprofit Organizations

*PAD 4431 Evaluating Social Work Practice & Service Programs

PAP 4948 American Humanics Internship

MAN 3025 Management of Organizations

BCC 4101 Human Resource Management

MAN 4101 Human Relations in Management

MAN 4129 Managerial Skills in Organizations

MAN 4130 Human Resource Management

MAN 4320 Human Resources, Recruitment & Selection

Group II: Planning & Evaluation and Human Resource Development 3 hrs

PAD 4144 Nonprofit Organizations

PAD 4153 Strategic Planning & Implementation

PAP 4325 Program Evaluation for the Public and Nonprofit Organizations

*SOW 4431 Evaluating Social Work Practice & Service Programs

PAP 4431 Evaluating Social Work Practice & Service Programs

PAP 4948 American Humanics Internship

MAN 3025 Management of Organizations

PAP 4101 Human Relations in Management

MAN 4129 Managerial Skills in Organizations

MAN 4320 Human Resources, Recruitment & Selection

Group III: Communication & Marketing 3 hrs

PAD 4144 Nonprofit Organizations

*SOW 3352 Interpersonal skills in Social Welfare Practice

COM 3110 Business & Professional Communications

SPO 4345 Leadership Through Oral Communication

GEB 3031 The Cornerstone Course

MAR 3025 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

230 UNIVERSITY OF CENTRAL FLORIDA 2003-2004 Undergraduate Catalog
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 4225 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
PAD 4253 Community and Economic Development

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
  * open only to SOW majors

AMERICAN SIGN LANGUAGE (ASL): Certificate
College of Health and Public Affairs
Department of Communicative Disorders,
HPA-2, Suite 101
http://www.cohpa.ucf.edu/comdis
Amy Mulcahy, 407-823-4798
e-mail: amulcahy@mail.ucf.edu

Since 1995 the demand for American Sign Language (ASL) classes has increased 165% as individuals and professionals have become sensitive to the need to communicate directly with the deaf and hard of hearing community. This certificate is designed to provide students with the conversational 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 communicative disorders, general and special education, psychology, the ater, 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.

Credit Hour Requirements 14 hrs

Required Courses
- SPA 4612 Introduction to American Sign Language 3 hrs
- SPA 4613 Intermediate American Sign Language 3 hrs
- SPA 4614C American Sign Language III 4 hrs
- SPA 4615 American Sign Language IV 4 hrs

Other Requirements
- A minimum grade of “C-” (1.75) is required in each course.
- Grades less than “C-” (1.75) are not accepted.
- At least 9 hours used in the program must be earned at UCF with the Department of Communicative Disorders.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

AMERICAN STUDIES: Minor
College of Arts and Sciences
Liberal Studies Office, CNH 201
http://www.cas.ucf.edu/liberal_studies
E-mail: ls@mail.ucf.edu

Credit Hour Requirements 21 hours

Required Courses
Select one course in each of the three categories below
- Literature and Humanities
  - AML 3931 American Literature I
  - AML 4101 American Novel
  - AML 4261 Literature of the South
  - LIT 3354 Ethnic Literature in America
  - POS 3413 The American Presidency
- Social Sciences
  - POT 3204 American Political Thought
  - SYD 3700 Race and Ethnic Minorities in the U.S.
  - SYP 3630 Sociology of Popular Culture
- History
  - AMH 3561 Women in American History I
  - AMH 4311 American Culture I
  - AMH 4313 American Culture II

Restricted Electives (12 hrs)

Courses chosen from courses approved by the Liberal Studies advisors. A list can be obtained by meeting with an advisor to plan your course of study.

Other Requirements

- Students must earn at least a “C” (2.0) in each course used to satisfy the minor.
- At least eighteen credit hours must be earned in upper level credits.
- At least 15 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.

ANTHROPOLOGY: Minor
College of Arts and Sciences
Department of Sociology & Anthropology, PH 403
http://cas.ucf.edu/soc_anthro/firstpage.html
anthropology@ucf.edu
Jay Corzine, 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

Required Courses (6 hrs)
Two of the following four 2000 level courses must be included in the minor:
- ANT 2000 General Anthropology 3 hrs
- ANT 2100 Archaeology & Rise of Human Culture 3 hrs
- ANT 2410 Cultural Anthropology 3 hrs
- ANT 2511 The Human Species 3 hrs

Restricted Electives (12 hrs)

Four other Anthropology courses must be taken within one of the following defined concentrations. Substitutions must be approved by the Anthropology Coordinator.

Concentration in General Anthropology (12 hrs)
All four 2000 level courses plus two upper level (3000-5000) courses in Anthropology

Concentration in Archaeology (12 hrs)

ANT 2000 and ANT 2100 must be taken. The other four courses must be selected from:
- ANT 3158 Florida Archaeology
- ANT 3115 Archaeological Method and Theory
- ANT 3142 Old World Prehistory
- ANT 3145 Archaeology of Complex Societies
- ANT 3163 Mesoamerican Archaeology
- ANT 3168 Maya Archaeology (or ANG 6168)
- ANT 3184 Mortuary Archaeology
- ANT 4153 North American Archaeology
- ANT 4180C Seminar in Laboratory Analysis
  (or three 1 hr labs)
- ANT 4824 Advanced Archaeological Field Work
- ANG 5166 Problems of Maya Archaeology
- ANG 5167 Maya Hieroglyphs
- ANG 5228 Maya Iconography

Concentration in Physical Anthropology (12 hrs)

Take four of the following courses:
- ANT 3184 Mortuary Archaeology
- ANT 3541 Biobehavioral Anthropology
- ANT 3550 Primatology
- ANT 4521C Forensic Anthropology
- ANT 4462 Medical Anthropology
- ANT 4525C Human Osteology
- ANT 4586 Human Origins

Concentration in Cultural Anthropology (12 hrs)

ANT 2000 and ANT 2410 must be taken. The other four courses must be selected from:
- 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 3311 Indians of the SE US
- ANT XXXX Ethnology of North Amer Indians
Minors, Certificates and Study Abroad

ANT 3313 Indians of N Amer High Plains
ANT 3314 Indians of the Northeast Woodlands
ANT 3318 Indians of the Northwest Coast
ANT 3164 The Incas
ANT 3332 Peoples and Culture of Latin America
ANT 3701 Applied Anthropology
ANT 3363 Anthropology of Japan
ANT 3640 Language and Culture
ANT 3340 Caribbean Cultures
ANT 3319 The Anthropology of Diaspora
ANT 4034 History of Anthropological Thought
ANT 4306 Gender Issues in Latin America
ANG 5167 Maya Hieroglyphs
ANG 5228 Maya Iconography
ANG 6324 Contemporary Maya

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 within the department.
- No credit by exam (TSD, Military credit) may be used.

ANTHROPOLOGY IN MULTICULTURAL STUDIES: Minor
College of Arts and Sciences
Department of Sociology & Anthropology, PH 403
http://www.cas.ucf.edu/soc_anthro/firstpage.html
anthropology@ucf.edu
Jay Corzine, 407-823-2227

This minor develops a more sophisticated understanding of the recent dilemmas of Hispanic, Native American, and Pacific Rim cultures, sex, and gender controversies in America and other societies, and the theoretical and practical issues of modern applied anthropology. 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)

Restricted Electives
- (15 hrs)

Five other Anthropology courses must be taken from the following offerings. Substitutions require the consent of the Anthropology Coordinator.

ANT 3164 The Incas
ANT 3212 Peoples of the World
ANT 3241 Magic, Ritual, and Belief
ANT 3245 Native American Religions
ANT 3302 Sex, Gender and Culture
ANT XXXX Ethnology of North Amer Indians
ANT 3332 People and Cultures of Latin Amer
ANT 3540 Language and Culture
ANT 3340 Caribbean Cultures
ANT 3319 The Anthropology of Diaspora
ANT 4308 Gender Issues in Latin America
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.
- 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.

ASIAN STUDIES: Minor
College of Arts and Sciences
Department of History, CNH 551
http://pegasus.cc.ucf.edu/~history/history@ucf.edu
Hong Zhang, 407-823-2224

An interdisciplinary minor in which seven UCF departments; Anthropology, Art, Economics, Foreign Languages and Literatures, History, Philosophy, and Political Science 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.

Credit Hour Requirements
- 24 hours

Required Courses
- (18 hrs)

ARH 2050 The History of Art I
ARH 2061 The History of Art II
ART 2000 General Anthropology
ART 2011C Design Fundamentals I
ART 2035C Drawing Fundamentals II
ART 2033C Drawing Fundamentals I

Restricted Upper Division Courses
- (6 hrs)

Six semester hours of studio art in one area of specialization at the 3000-4000 level

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least six of the required hours must be regularly scheduled 3000- 4000 level courses in an area of specialization and taken at UCF.
- 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.

ART - STUDIO: Minor
College of Arts and Sciences
Art Department, VAB 117
http://reach.ucf.edu/~art/art@ucf.edu
J. Chavda, 407-823-2676

Credit Hour Requirements
- 24 hours

Required Courses
- (18 hrs)

ARH 2050 The History of Art I
ARH 2061 The History of Art II
ART 2011C Design Fundamentals I
ART 2035C Drawing Fundamentals II
ART 2033C Drawing Fundamentals I

Restricted Electives: (3 hrs)

ART 2050 The History of Art I
ART 2061 The History of Art II
ART 2011C Design Fundamentals I
ART 2035C Drawing Fundamentals II
ART 2033C Drawing Fundamentals I

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least six of the required hours must be regularly scheduled 3000- 4000 level courses in an area of specialization and taken at UCF.
- 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.

ART HISTORY: Minor
College of Arts and Sciences
Art Department, VAB 117
http://reach.ucf.edu/~art/art@ucf.edu
J. Chavda, 407-823-2676

Credit Hour Requirements
- 27 hours

Required Courses
- (15 hrs)

ARH 2050 The History of Art I
ARH 2061 The History of Art II
ART 4310 Early Italian Renaissance Art
ART 4430 19th Century Art
ARH 4450 20th Century Art

Non-western Course Requirement
- (3 hrs)

Select from the following:

ARH 4545 Art of India
ARH 3520 African Art
ARH 4655 Meso American Art

Restricted Elective:
- (3 hrs)

ARH 4545 Art of India
ARH 4655 Meso American Art

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least six of the required hours must be regularly scheduled 3000- 4000 level courses in an area of specialization and taken at UCF.
- 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.

ART HISTORY: Minor
College of Arts and Sciences
Art Department, VAB 117
http://reach.ucf.edu/~art/art@ucf.edu
J. Chavda, 407-823-2676

Credit Hour Requirements
- 24 hours

Required Courses
- (18 hrs)

ARH 2050 The History of Art I
ARH 2061 The History of Art II
ART 2011C Design Fundamentals I
ART 2035C Drawing Fundamentals II
ART 2033C Drawing Fundamentals I

Restricted Upper Division Courses
- (6 hrs)

Six semester hours of studio art in one area of specialization at the 3000-4000 level

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- At least six of the required hours must be regularly scheduled 3000- 4000 level courses in an area of specialization and taken at UCF.
- 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.

ASIAN STUDIES: Minor
College of Arts and Sciences
Department of History, CNH 551
http://pegasus.cc.ucf.edu/~history/history@ucf.edu
Hong Zhang, 407-823-2224

An interdisciplinary minor in which seven UCF departments; Anthropology, Art, Economics, Foreign Languages and Literatures, History, Philosophy, and Political Science 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.

Credit Hour Requirements
- 24 hours

Required Course
- (3 hrs)

HUM 3401 Asian Humanities

Restricted Electives
- (21 hrs)

Approved courses (see department for listing)

Foreign Language Requirement
- (0-8 hrs)

One year or the equivalent proficiency examination. Students taking foreign language classes must complete at least six hours in the sequence chosen (e.g. Chinese, Japanese).
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.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used in the minor without prior approval by the director.

ASTRONOMY: Minor
College of Arts and Sciences
Department of Physics, MAP 310
physics@ucf.edu
407-823-2325

Credit Hour Requirements 20 hours
Required Course (18 hrs)
PHY 2048 Physics for Engineers & Scientists I 3 hrs
AST 2002 Introductory Astronomy 3 hrs
AST 3722C Observational Astronomy 3 hrs
AST 3110 Solar System Astronomy 3 hrs
AST 3211 Stellar Astrophysics 3 hrs
AST 3402 Galaxies and Cosmology 3 hrs

Restricted Electives (2 hrs)
Select either:
PHY 2049 Physics for Engineers & Scientists II or 3 hrs
PHY 2048L Physics for Engineers and Scientists I lab and 1 hr
AST 2002L Introductory Astronomy 1 hr

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.

BEHAVIORAL FORENSICS: Certificate
College of Arts and Sciences
Psychology Department, PH 302
http://pegasus.cc.ucf.edu/~psych
psychology@ucf.edu
Jack McGuire, 407-823-2216

Undergraduate Advising: T. Hernandez, 407-823-2547
Psychology Advising Center, PH 305G, 407-823-2219

Credit Hour Requirements 27 hours
Required Courses (18 hrs)
PSY 2012 General Psychology or 3 hrs
GEP
SYG 2000 General Sociology 3 hrs
PPE 3003 Personality Theories 3 hrs
SYP 3510 Soc of Deviant Behavior 3 hrs

Required Courses (9 hrs)
PSY 4XXX Forensic Psychology 3 hrs
PSY 3XXX Legal Aspects of Psych 3 hrs
SYP 3520 Criminology 3 hrs
SYP 3540 Sociology of Law 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
CLP 3302 Clinical Psychology
CLP 4134 Child Psychopathology
PCO 4020 Interviewing and Counseling

From Sociology, select one of the following:
SYP 3511 Sociology of Murder
SYP 3530 Juvenile Delinquency
SYP 4521 Criminal Victimization in Society
SYP 4514 Sociology of Violence
SYP 4536 Gangs and Society
SYP 3XXX Soc Perspectives on Domestic Violence

From Criminal Justice, select one of the following:
CCJ 3014 Crime in America
CCJ 3024 Criminal Justice System
CCJ 4670 Women and Crime
CCJ 4630 Serial Murder & CJ
CCJ 4616 Criminal Profiling in CJ

CCJ 3667 Victims and the CJ System
CCJ 4681 Domestic Violence & the Justice Syst
CCJ 4690 Sex Offenders & the CJ System

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.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the certificate.

BIOLOGY: Minor
College of Arts and Sciences
Department of Biology, BL 210
http://pegasus.cc.ucf.edu/~biology
biology@ucf.edu
Walter Taylor, 407-823-2141

Credit Hour Requirements 32 hours
Required Courses (32 hrs)
BSC 201C General Biology 4 hrs
BSC 201C Biological Diversity 4 hrs
CHEM 2035 Chemistry Fundamentals I 4 hrs
CHEM 2036 Chemistry Fundamentals II 3 hrs
CHEM 2210 Organic Chemistry 3 hrs
PCB 3023 Molecular Cell Biology 3 hrs
PCB 3034 Principles of Ecology 3 hrs
PCB 3036 Genetics 3 hrs
PCB 4863 Population Biology and Evolution 5 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.
- A minor in Biology will not be awarded to students who have, or expect to earn, any other Life Science degree.

BUSINESS: Minor for Non-Business Majors
College of Business Administration
Department of Economics, BA 229F
B. Moore, 407-823-5256, bmoore@bus.ucf.edu

Credit Hour Requirements 24 hours
Required Accounting Course(s) (6 hrs)
ACG 2021 Principles of Financial Accounting
ACG 2071 Principles of Managerial Accounting

Required Courses (15 hrs)
ECO 2023 Microeconomics
ECON 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) is required in all courses used to satisfy the minor.
- 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, Co-op, or Independent Study credit cannot be used toward the minor.

Minors, Certificates and Study Abroad
CHEMISTRY: Minor
College of Arts and Sciences
Department of Chemistry, CH 117
http://www.cas.ucf.edu/chemistry
chemistry.ucf.edu
Brooks Madsen, 407-823-2246

Credit Hour Requirements 28 hours
Required Courses
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 3120C Analytical Chemistry 5 hrs

Required Upper Division Electives (7 hrs)
At least one course must be selected from group I and the remaining from group II

Group I: Select at least one course
CHM 3212L Organic Laboratory Techniques II
CHM 4130C Advanced Analytical Laboratory Technique
BCH 4103L Biochemical Methods
CHS 3530C Forensic Analysis of Controlled Substances
CHM 9411L Physical Chemistry Laboratory
CHM 5451C Polymer Chemistry Laboratory

Group II:
BCH 4053 Biochemistry I
BCH 4054 Biochemistry II
CHM 3410 Physical Chemistry I
CHM 3411 Physical Chemistry II
CHM 5225 Advanced Organic Chemistry I
CHM 4220 Organic Chemistry III
CHS 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.

CHILDREN’S SERVICES: Certificate
College of Health and Public Affairs
School of Social Work, HPA 204
Mary Van Hook, 407-823-2114

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.

Credit Hour Requirements 18 hours
Required Courses
SOW 3952 Practice II: Interpersonal Skills 3 hrs
SOW 4654 Children’s Services 3 hrs
SOW 4XXX 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.

COMMUNICATIVE DISORDERS: Minor
College of Health and Public Affairs
Department of Communicative Disorders
HPA2 Suite 101
Amy Mulcahy, 407-823-4798
E-mail: amulcahy@mail.ucf.edu

Credit Hour Requirements 22 hours
Required Courses
SPA 3002 Intro to Communicative Disorders 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 3101 Physiological Bases of Speech/Hearing 3 hrs
SPA 4032 Audiology 3 hrs
SPA 4400 Language Disorders Across the Lifespan 3 hrs
SPA 4201 Articulation/Phonological Disorders 3 hrs

Other Requirements
- A minimum GPA of 1.75 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 19 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.

COMMUNITY ARTS—PAVE: Minor
College of Arts and Sciences
Department of Art, VAB 117
http://reach.ucf.edu/~art
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 INFORMATION TECHNOLOGY: Minor, Certificate
College of Engineering and Computer Science
School of Electrical Engineering and Computer Science, CSB 201
E-mail: computerscience@ucf.edu
http://www.cs.ucf.edu
Mark Llewellyn, 407-823-2341

Credit Hour Requirements

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>36 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 3502C</td>
<td>Computer Science I</td>
</tr>
<tr>
<td>COP 3503C</td>
<td>Computer Science II</td>
</tr>
<tr>
<td>CDA 3103C</td>
<td>Computer Organization</td>
</tr>
<tr>
<td>MHE 2104</td>
<td>Foundations of Discrete Math</td>
</tr>
<tr>
<td>COP 3323</td>
<td>Intro to Programming with C</td>
</tr>
<tr>
<td>COP 3330</td>
<td>Object Oriented Programming</td>
</tr>
<tr>
<td>CGS 2545C</td>
<td>Database Concepts</td>
</tr>
<tr>
<td>CGS 3269</td>
<td>CompArch Concepts</td>
</tr>
<tr>
<td>CGS 3285</td>
<td>Comp Networks Concepts</td>
</tr>
<tr>
<td>CGS 3763</td>
<td>Operating System Concepts</td>
</tr>
<tr>
<td>COP 3346</td>
<td>Unix</td>
</tr>
</tbody>
</table>

Additional three credits chosen from any upper level course offered by the School of Electrical Engineering and Computer Science.

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 within Computer Science at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit cannot be used toward the certificate.

COMPUTER SCIENCE: Minor
College of Engineering and Computer Science
School of Electrical Engineering and Computer Science, CSB 201
E-mail: computerscience@ucf.edu
http://www.cs.ucf.edu
Mark Llewellyn, 407-823-2341

Credit Hour Requirements

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</tr>
<tr>
<td>COP 3330</td>
<td>Intro to Object Oriented Programming</td>
</tr>
<tr>
<td>COP 3502C</td>
<td>Computer Science I</td>
</tr>
<tr>
<td>COP 3503C</td>
<td>Computer Science II</td>
</tr>
<tr>
<td>CDA 3103C</td>
<td>Comp. Organization</td>
</tr>
</tbody>
</table>

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 within Computer Science 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.

COMPUTER SCIENCE, APPLIED: Minor, Certificate
College of Engineering and Computer Science
School of Electrical Engineering and Computer Science, CSB 201
E-mail: computerscience@ucf.edu
http://www.cs.ucf.edu
407-823-2341

Credit Hour Requirements

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>18-19 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 3502C</td>
<td>Computer Science I</td>
</tr>
<tr>
<td>COP 3503C</td>
<td>Computer Science II</td>
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<tr>
<td>CGS 2545C</td>
<td>Database Concepts</td>
</tr>
<tr>
<td>CGS 3269</td>
<td>CompArch Concepts</td>
</tr>
<tr>
<td>CGS 3285</td>
<td>Comp Networks Concepts</td>
</tr>
<tr>
<td>CGS 3763</td>
<td>Operating System Concepts</td>
</tr>
<tr>
<td>COP 3346</td>
<td>Unix</td>
</tr>
</tbody>
</table>

Select from the following:
- CGS 2515 Spreadsheet Concepts
- CGS 2545C Database Concepts
- CGS 2585C Desktop Internet Publishing
- CGS 3175 Internet Applications
- CGS 3269 Computer Architecture Concepts
- CGS 3285 Computer Networks Concepts
- CGS 3763 Operating Systems Concepts

Computer Science Electives

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).

Other Requirements
- 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.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit cannot be used toward the minor.

CRIME ANALYSIS AND CRIME MAPPING: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA 311
Cory Watkins, 407-823-0365
E-mail: rwatkins@mail.ucf.edu

Crime analysis and crime mapping are now recognized as essential and vital functions in law enforcement. Analysts take advantage of state-of-the-art computer technologies to support operations, investigations, and management. These specialists take data and produce information that is used to identify crime patterns, monitor crime trends, forecast future crime events, prepare statistical crime reports, and work directly with investigators to identify suspects. Five classes (15 credit hours) are required for this undergraduate certificate.

Credit Hour Requirements

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>15 hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CJE 3662</td>
<td>Data Management Systems for Crime Analysis</td>
</tr>
<tr>
<td>CJE 4663</td>
<td>Crime Mapping and Analysis in Criminal Justice</td>
</tr>
<tr>
<td>CJ 4076</td>
<td>Advanced Crime Mapping and Analysis in Criminal Justice</td>
</tr>
</tbody>
</table>

Restricted Upper Division Electives

Select two of the following:

- CCJ 3451 Justice Systems Technology | 3 hrs
- CJE 3444 Crime Prevention | 3 hrs
- CCJ 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.
CRIMINAL JUSTICE: Minor
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA 311
David Fabianic, 407-823-2603
E-mail: fabianic@mail.ucf.edu

Credit Hour Requirements 18 hours
Required Courses (6 hrs)
CCJ 3024 Criminal Justice System 3 hrs
CCJ 3014 Crime in America 3 hrs

Restricted Electives (12 hrs)
Two of the following:
CJL 3510 Prosecution and Adjudication 3 hrs
CCJ 3010 The Corrections and Penology 3 hrs
CJE 4014 Police and Society 3 hrs
Six semester hours of Criminal Justice Courses (selected with the aid of an advisor).

Other Requirements
- Students must earn an overall minimum of 2.0 GPA in the 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.

CRIMINAL PROFILING: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA 311
David Fabianic, 407-823-5940
E-mail: fabianic@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.

Credit Hour Requirements 15 hours
Required Courses (12 hrs)
CCJ 3143 Abnormal Psychology 3 hrs
CJE 4630 Serial Murder and the Criminal Justice System 3 hrs
CCJ 4690 Sex Offenders and the Criminal Justice System 3 hrs
CCJ 4616 Criminal Profiling in Criminal Justice 3 hrs

Restricted Upper Division Electives (3 hrs)
Select one of the following:
CCJ 4100 Criminal Investigation 3 hrs
CCJ 4611 Terrorism 3 hrs
CCJ 4632 Interviews and Interrogations 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 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.

DIGITAL MEDIA: Minor
College of Arts and Sciences
Digital Media Program, VAB 205
http://www.creat.cas.ucf.edu
moshell@cs.ucf.edu
M. Moshell, 407-823-6100

Credit Hour Requirements 18 hrs
Required Courses: 12 hrs
IDS 2680 Introduction to Digital Media 3 hrs
ART 2600C Introduction to Computer Art 3 hrs
IDS 4688L Internet Interaction 3 hrs
COP 2500C Concepts in Computer Science 3 hrs

Restricted Elective Courses 6 hrs
Select two courses:
MUS XXX Music Technology 3 hrs
ENC 4415 Digital Rhetorics and the Modern Dialectic 3 hrs
IDS 3701C Internet Software Design 3 hrs
ART 2201C Design Fundamentals I 3 hrs
IDS 3782C Assembling Digital Media 3 hrs
FIL 3625 Interactive Entertainment 3 hrs
IDS 4698C Media for e-Commerce I 3 hrs
IDS 4XXX Interactive Devices 3 hrs
IDS 4681 Modeling for Realtime Graphics 3 hrs
IDS 3687C Digital Imaging 3 hrs
FIL 3624 Converging Media 3 hrs
IDS 4705 Autonomous Media 3 hrs
IDS 4687C Game Engines 3 hrs
IDS 4686C Game Design 3 hrs

Other Requirements
- A minimum grade of “C” (2.0) or better 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 can not be used toward the certificate without prior permission of the program director.

CULTURAL TOURISM: Certificate
College of Arts and Sciences
Office of Liberal and Interdisciplinary Studies
http://www.cas.ucf.edu/olis/culturaltourism/
lsis@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 hours
Required Courses (12 hrs)
HFT 3540 Guest Service Management 3 hrs
HFT 3700 Tourism Management 3 hrs
HFT 4735 Tourism Geography 3 hrs
ANT 3438 Anthropology of Tourism 3 hrs

Choose two courses from one of the following areas (6 hrs)
African Heritage area (choose two classes)
AFA 3104 The African American Experience 3 hrs
AFA 4105 Documenting African American Heritage and Life 3 hrs
SYD 3700 Race and Ethnic Minorities in the United States 3 hrs

Anthropology area (choose two classes)
ANT 2100 Archaeology and the Rise of Human Culture 3 hrs
ANT 3212 Peoples of the World 3 hrs
ANT 2410 Cultural Anthropology 3 hrs
ANT 3115 Archaeological Method and Theory 3 hrs
ANT 3930 Applied Anthropology 3 hrs

Environmental Tourism area (choose two classes)
BOT 3152C Local Flora 3 hrs
PCB 3442 Florida Aquatic Ecology 3 hrs
INR 4351 International Environmental Law 3 hrs
PUP 3203 Environmental Politics 3 hrs
PUP 4204 Sustainability 3 hrs
SYD 4510 Environmental Sociology 3 hrs

Latin American area (choose two classes)
ANT 3103 Meso American Archaeology 3 hrs
ANT 3169 Maya Archaeology 3 hrs
ANT 3332 Peoples and Cultures of Latin America 3 hrs
ANT 3340 Caribbean Archaeology 3 hrs
ARH 4655 Meso American Art 3 hrs
CPO 4030 Comparative Latin American Politics 3 hrs
LAH 3400 History of Mexico and Central America 3 hrs
LAH 3470 History of the Caribbean 3 hrs
LAH 3130 Latin American History I 3 hrs
LAH 3200 Latin American History II 3 hrs

Other Requirements
- A minimum grade of “C” (2.0) or better 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 can not be used toward the certificate without prior permission of the program director.
**ECONOMICS: Minor**

*(for both Business Majors and non-Business Majors)*

**College of Business Administration**

Department of Economics, BA 318

R. Pennington, 407-823-2640, rpennington@bus.ucf.edu

**Credit Hour Requirements**

18 hours

**Required Courses**

- ECO 2013: Macroeconomics
- ECO 2023: Microeconomics

Select one of the following two courses:
- ECO 3101: Intermediate Price Theory
- ECO 3203: Aggregate Econ Conditions Anal

**Upper Division Restricted Electives**

Select from any ECO, ECP, or ECS courses at the 3000-4000 level, excluding ECO 3401.

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) are not accepted.
- At least nine hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Directed Research credit cannot be used toward the minor.

**Note:** The College of Business Administration plans to discontinue this track within two years. Potential transfer students are advised to check with the College.
ENGLISH - LITERATURE: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
P. Murphy, 407-823-2212

Credit Hour Requirements 21 hours

Required Course
ENG 3014 Theories and Techniques of Lit Study

Restricted Upper Division Elective (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 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 - TECHNICAL WRITING & EDITING: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
P. Murphy, 407-823-2212

Credit Hour Requirements 21 hours

Required courses
ENC 3211 Theory & Practice of Tech Writing
ENC 3215 Techniques of Technical Publications
ENC 4215 Theory & Practice of Technical Writing
ENC 4218 Visual Elements in Documentation
ENC 4219 Advanced Writing & Editing
ENC 4220 Technical Documentation III
ENC 4221 Technical Documentation II
ENC 4222 Technical Documentation I

Restricted Upper Division Electives (18 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 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 - WRITING: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
P. Murphy, 407-823-2212

Credit Hour Requirements 18 hours

Restricted Elective Courses (18 hrs)
Any 3000 or 4000 level ENC or CRW classes for which the student has met the prerequisites, including

CRW 3120 Fiction Writing Workshop
CRW 3310 Poetry Writing Workshop
CRW 3013 Creative Writing for English Majors
CRW 3211 Creative Nonfiction Writing
CRW 3311 Structure of Verse
CRW 4224 Advanced Poetry Writing Workshop
CRW 4212 Advanced Fiction Writing Workshop
CRW 4212 Science Fiction Writing
CRW 4224 Advanced Nonfiction Workshop
CRW 4230 Advanced Poetry Writing Workshop
ENC 3211 Theory and Practice of Technical Writing
ENC 3214 Writing for the Technical Professional
ENC 3250 Professional 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.
ENVIRONMENTAL STUDIES: Minor

College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
is@mail.ucf.edu

The Environmental Studies minor degree 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 introspective and artistic presentation of the humanities with the inquisitive nature 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 3130 Foundations of Environmental Studies 3 hrs

Science & Environmental Electives (9 hrs)

Natural Sciences
BSC 2001C Biological Diversity
BSC 3080 Environmental Geology
BOT 2340 Archaeobotany
BOT 4370 Environmental History
BOT 4608 Conservation and Management of Native Plants
BOT 5323 Plant Geography and Ecology
BSC 4312 Marine Biology
PCB 3034 Principles of Ecology and Lab
PCB 3442 Florida Aquatic Ecology
PCB 4302C Physiochemical Limnology
PCB 4683 Population Biology and Evolution
PCB 5045 Conservation Biology
PCB 5328C Ecosystems of Florida
PCB 5435C Marine Ecology of Florida
PCB 5485 Models in Ecology
PCB 5328C Landscape Ecology
CHM 4023 Analytical Chemistry
CHM 4161 Environmental Chemistry
HSC 4500 Epidemiology

Technology & Society
EGN 4853 Science in History
EGN 4814 Technology in History
EGN 4824 Energy and Society
EGN 4825 Environment and Society

Environmental Engineering
ENV 3001 Introduction to Environmental Engineering
ENV 4341 Solid Waste Management
ENV 4432 Potable Water Treatment
ENV 5334 Characterization of Hazardous Waste Sites

Social & Humanities Electives (9 hrs)

Environment & Society
ECO 4302 Economics of the Environment
ECO 4701 The Global Economy
INR 4351 International Environmental Law
PUP 3203 Environmental Politics
PUP 4502 Government and Science
PAD 4351 Issues in Environmental Program Management
PAD 5338 Introduction to Urban Planning
PAD 5338 Land Use and Planning Law
PLA 4631 Land Use and Environmental Law

Geography
CEG 3001 Engineering and Environmental Geology
GEO 3730 Resources Geography
GEO 4131 Remote Sensing of the Environment

Philosophy

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.

EXCEPTIONAL EDUCATION: Minor

College of Education
Department of Child, Family, and Community Sciences

ED building, second floor, 407-823-2401
http://www.edcollege.ucf.edu

Chair: Wilfred Wienke, 407-823-2401
E-mail: wwiemnke@mail.ucf.edu

Program Coordinator: Lee Cross, 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 21 hours

Required Courses
(18 hrs)
RED 3012 Foundation of Reading 3 hrs
EXX 4003 Teaching Exceptional Students 3 hrs
EEX 4601 Introduction to Behavior Management 3 hrs
EEX 4753 Parent/Professional Collaboration 3 hrs
EDF 4603 Analysis of Critical Issues 3 hrs
EXX 5243 Techniques for Exceptional Adolescents/Adults 3 hrs
EEX 3241 Methods for Academic Skills for Excep Students 3 hrs

Restricted Electives (3 hrs)
EXX 4054 App’T Theory Needs Students Indep Study 3 hrs
EDF 4241 Classroom Learning Principles 3 hrs

Other Requirements
- Completion of all parts of the CLAST with appropriate passing scores (no alternatives), 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 to the College of Education.
Minors, Certificates and Study Abroad

FILM - CINEMA STUDIES: Minor
College of Arts and Sciences
Film Department, COM 121
http://www.film.ucf.edu
film@ucf.edu
Sterling Van Wagenen, 407-823-3456

Entrance Requirement
- Completion of a Minor Declaration and Minor Application

Credit Hour Requirements 18 hours
Required Courses 12 hrs
FIL 1007 Foundations of Story or Cinema 3 hrs
FIL 1001 Cinema Survey 3 hrs
FIL 2400 History of Motion Pictures 3 hrs
FIL 3006 Art of the Cinema 3 hrs
FIL 2201 Foundations of Production 3 hrs
Restricted Electives 6 hrs
FIL 3309 Women in Film 3 hrs
FIL 3520 Italian Film 3 hrs
FIL 3521 French Film 3 hrs
FIL 3XXX Black Images in Film 3 hrs
FIL 3522 German Film 3 hrs
FIL 3412 Black Cinema 3 hrs

Other Requirements
- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours 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 Sciences
Foreign Languages and Literatures, CNH 523
http://pegasus.cc.ucf.edu/~forlang
foreignlanguage@ucf.edu
C. E. Stebbins, 407-823-2472

Credit Hour Requirements 18 hours
Required Courses 12 hrs
FIL 3006 Art of the Cinema 3 hrs
FIL 3520 Italian Film 3 hrs
FIL 3521 French Film 3 hrs
FIL 3522 German Film 3 hrs
FIL 3412 Black Cinema 3 hrs

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.

FITNESS TRAINING: Minor
College of Education
Department of Teaching and Learning Principles
ED building, second floor
Patricia Higginbotham, 407-823-2050

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.

Credit Hour Requirements 23 hours
Required Courses 18 hrs
*PEM 2171 Aerobic Dancing 3 hrs
*PET 2522C Human Injuries 3 hrs
PET 4312 Biomechanics 3 hrs
PET 4351 Applied Exercise and Human Physiology 3 hrs
PET 4550 Fitness Assessments and Exercise 3 hrs
PET 4083C Practical Fitness Training 4 hrs
*ZOO 3736C Exercise Physiology Anatomy 4 hrs

*If the student has completed a Human Anatomy course with a laboratory requirement at another school, it can be substituted for ZOO 3736C. This is also true for the Human Injuries course, PET 2522C and the PEM 2171 Aerobic Dancing course. Both of these courses are often completed at a community college.

Other Requirements
- 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 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 Sciences
Foreign Languages and Literatures, CNH 523
http://pegasus.cc.ucf.edu/~forlang
foreignlanguage@ucf.edu
C. E. Stebbins, 407-823-2472

Credit Hour Requirements 18 hours

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 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.

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 hours
Required Courses 18 hrs
HIM 3006 Foundations of Health Information Management 3 hrs
HIM 4506 Quality Management 3 hrs
HIM 4656C Health Information Management Systems 3 hrs
HSC 3531 Medical Terminology 3 hrs
HIM 4256C Coding Practice II 5 hrs
HIM 4256C Coding Practice 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, HPA 212
L. Timothy Worrell, 407-823-2214
E-mail: worrell@mail.ucf.edu

Credit Hour Requirements 18 hours

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 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.
Minors, Certificates and Study Abroad

HOSPITALITY MANAGEMENT: Minor
Rosen School of Hospitality Management
Classroom Bldg I, Suite 302, 407-823-2188
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam, 407-823-2188

Credit Hour Requirements 18 hours
Required Courses (6 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 2444 Hospitality Information Systems 3 hrs
HFT 3600 Legal Environment in Hospitality 3 hrs
Choose any two courses from the following: (6 hrs)
HFT 2193 Health Care Automation 3 hrs
HFT 2254 Lodging Operations 3 hrs

Other Requirements
- A minimum GPA of 2.0 in all courses used to satisfy the minor.
- At least 12 credit hours used in the minor must be earned at UCF within the School.
- No credit by exam (TSD, Military credit) may be used in the minor.
- 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 Final Exam Week only.
- Internship or Independent Study credit cannot be used toward the minor.

HUMANITIES: Minor
College of Arts and Sciences
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
TBA, 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 the humanities program in 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 hours
Humanities Foundations 6 hours
Select two courses:
HUM 3431 Ancient Humanities
HUM 3435 Medieval Humanities
HUM 3255 Modern Humanities
HUM 3251 Contemporary Humanities

Humanistic/Religious Traditions 6 hours
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
JST 3401 The Jewish People

Applications 6 hours
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 3XXX Religion, Spirituality, and Popular Music
REL 3XXX Religion, Philosophy and Film
**INTERNATIONAL BUSINESS:**

**Minor for Business Majors**

**College of Business**

**Office of Student Support, BA 240**

Richard Ajayi, 407-823-5908

**Credit Hour Requirements**

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>18 hours</th>
<th>9 hrs</th>
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<tbody>
<tr>
<td>GEB 4361</td>
<td>Business in the International Env</td>
<td>3 hrs</td>
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<tr>
<td>ECO 3703</td>
<td>International Economics</td>
<td>3 hrs</td>
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<tr>
<td>FIN 4604</td>
<td>International Financial Management</td>
<td>3 hrs</td>
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</tbody>
</table>

**Restricted Elective**

| MAR 4156         | International Marketing | 3 hrs |
| MAN 4600        | International Management | 6 hrs |

**Electives**

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<th>(6 hrs)</th>
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<tbody>
<tr>
<td>ANT 3212</td>
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<td>ECS 4003</td>
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<td>ECS 4013</td>
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<td>GEO 3470</td>
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<td>INR 4401</td>
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<td>INR 4242</td>
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<td>INR 4243</td>
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<tr>
<td>Special Topics Seminars in International Business</td>
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</tbody>
</table>

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) 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.

**JAZZ STUDIES:** Certificate

**College of Arts and Sciences**

**Department of Music, CNH 205**

http://pegasus.cc.ucf.edu/~ucfmusic

**music@ucf.edu**

TBA, 407-823-2869

This certificate is designed for undergraduate students majoring in music who desire to devote time to specific coursework in each of these areas. This is only a component of the B.A. or B.Music degree, provided that the student works with an advisor in the program.

**Admission Requirement**

Student must satisfactorily audition for the Department of Music.

**Credit Hour Requirements**

<table>
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<tr>
<th>Required Courses</th>
<th>13 hours</th>
<th>(13 hrs)</th>
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<tbody>
<tr>
<td>MUS 3170</td>
<td>Jazz Theory I</td>
<td>2 hrs</td>
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<td>MUS 3171</td>
<td>Jazz Theory II</td>
<td>2 hrs</td>
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<td>MUS 3641</td>
<td>Jazz Improvisation I</td>
<td>2 hrs</td>
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<tr>
<td>MUS 3642</td>
<td>Jazz Improvisation II</td>
<td>2 hrs</td>
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<td>MUS 2016</td>
<td>Evolution of Jazz</td>
<td>3 hrs</td>
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<tr>
<td>MUS 4932</td>
<td>Independent Study in Jazz</td>
<td>2 hrs</td>
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</tbody>
</table>

**Other Requirements**

- Must complete all course and non-course requirements (recitals and proficiency examinations) of the Music major in order to qualify for the certificate within the degree.
- A minimum GPA of 2.0 is required in all music courses attempted, whether or not used to satisfy the certificate.
- At least 9 hours used in the certificate 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 certificate.

**JUDAIC STUDIES:** Minor, Certificate

**College of Arts and Sciences**

**Judaic Studies Program, CNH 201**

http://www.cas.ucf.edu/judaic_studies

**E-mail: judaics@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

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<th>Other Requirement</th>
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English, Foreign Languages, History, Philosophy, Political Science, and Sociology/Anthropology, and with the Liberal Studies and Women’s Studies Programs. Students who desire to minor in Judaic Studies are encouraged to meet with the program director. The certificate in Judaic Studies will be awarded to students completing 15 credits in Judaic Studies.

Credit Hour Requirements 18–26 hours
Required Courses (or proficiency) (0-8 hrs)
HBR 1120 Elem Modern Hebrew Lang and Cult I
HBR 1121 Elem Modern Hebrew Lang and Cult II

Restricted Upper Division Electives (18 hrs)

Jewish History
JST 3144 Dead Sea Scrolls
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

Literature
JST 3100 The Hebrew Creative Mind
JST 3751 Literature of the Holocaust

Culture
JST 3820 Modern Hebrew Culture
JST 3810 The Jewish National Movement
JST 3XXX Modern Jewish Experience
JST 3820 Modern Hebrew Culture:

Language
HBR 2201 Intermediate Modern Hebrew Language and Culture I
HBR 2201 Intermediate Modern Hebrew Language and Culture II
HBR 3410 Conversational Israel: Hebrew

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.

LANGUAGE DEVELOPMENT AND DISORDERS:
Certificate
College of Health and Public Affairs
Department of Communicative Disorders,
HPA2, Suite 101
http://www.cohpa.ucf.edu/comdis
Amy Mulcahy, 407-823-4798
e-mail: amulcahy@mail.ucf.edu

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, neurolinguists, 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.

Credit Hour Requirements 13 hours
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.
- Grades less than “C-” (1.75) are not accepted.
- 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) may be used.
- Internship or Independent Study credit may not be used toward the program.

LATIN AMERICAN AREA STUDIES: Minor
College of Arts and Sciences
Sociology & Anthropology, PH 403
achase@mail.ucf.edu
Arlen Chase, 407-823-2124

The minor provides students with a background that can be applied to careers in teaching, government, business, non-profit organizations, as well as international, inter-American and Peninsular Affairs.

Credit Hour Requirements 18 hours
Admission Requirement
Admission by interview with the program Director
Required Skills
Students must complete the introductory language sequence in Spanish or show proficiency
Restricted Electives (18 hrs)
16 semester hours taken from the following, with 12 of the hours in three different disciplines and at least 6 hours in one. Courses must be selected in consultation with the Director

Anthropology:
ANT 3164 The Inca
ANT 3168 Maya Archaeology (or ANG 6168)
ANT 3332 People and Cultures of Latin America
ANT 3163 Mesoamerican Archaeology
ANT 4308 Gender Issues in Latin America
ANT 4824 Advanced Archaeological Fieldwork
ANT 4100 Seminar in Laboratory Analysis
ANG 6324 Contemporary Maya
ANG 5167 Maya Hieroglyphics
ANG 5228 Maya Iconology

Art:
ARH 4655 Meso American Art

Economics:
ECO 2013 Macroeconomics
ECO 3703 International Economics
ECO 4701 The Global Economy
ECO 4XXX Mexican Economy

Foreign Language:
SPN 2230 Intermediate Spanish Lang & Civ I
SPN 2231 Intermediate Spanish Lang & Civ II

any upper division Spanish Language, Literature, Business or Civilization course

History:
EH 3315 History of Modern Spain
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
LAH 5937 Latin America’s Colonial Legacy: The Maya

Political Science:
CPO 3403 Comparative Latin American Politics
INR 4243 International Politics of Latin America
CPO 3034 Politics of Developing Areas
CPO 5334 Contemporary Politics in the Maya Region

Required Thesis
A thesis (or comparable proof of writing skills) must be approved before graduation

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 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.

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 hours
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
**MARKETING: Minor**  
(Open to Business and Non-Business Students)  
**College of Business Administration**  
**Department of Marketing, BA 353**

**Credit Hour Requirements**  
18 hours  
**Required Courses**  
MAR 3023  Marketing  
(MAR 3023)  

** Restricted Electives**  
(12-15 hrs)  
Select four or five:  
MAR 3323  Integrated Marketing Communication  
MAR 3391  Professional Selling  
MAR 3403  Sales Force Management  
MAR 3503  Customer Behavior  
MAR 3613  Marketing Analysis and Research  
MAR 3641  Marketing Intelligence  
MAR 3880  e-Marketing  
MAR 4156  International Marketing  
MAR 4724  Strategic Foundations in Global e-Business  
MAR 4231  Retailing Management  
MAR 4711  Sport Marketing  
MAR 4712  Healthcare Marketing  
*MAR 4803  Marketing Management  
*MAR 4804  Marketing Strategy  
MAR 4841  Services Marketing  
*Requires prerequisites in addition to MAR 3023  

**Restricted Non-Marketing Elective**  
(0-3 hrs)  
Three hours of coursework may be chosen outside of marketing from the list below. However, other courses outside Marketing will also be considered—approval by petition to the Department.  
ADV 3000, ANT 3640, COM 3011C, COM 3311, COM 3120, COM 3110, ENC 3211, EXP 3404, HSA 3122, PHI 3803, PPE 3003, PSY 3214C, RTV 3000, SOP 3004, SPC 3301, SPC 4331, SPC 4350, SPC 4426, STA 4102, SYA 3300, MAN 4720.  

**Other Requirements**  
A minimum GPA of 2.0 is required in all courses used to satisfy the minor.  
Grades below “C” (2.0) are not accepted.  
At least nine hours used in the minor must be earned at UCF.  
Grades below “C” (2.0) or “S” grades from other institutions are not accepted.  
No credit by exam (TSD, Military credit) may be used.  
Internship, Independent Study, or Directed Research credit cannot be used toward the minor.

**MARKETING: Certificates**  
**College of Business Administration**  
**Department of Marketing, BA 353**

*Restricted to Marketing majors*  
Certificates will be awarded at the time of degree completion  
9 hours  
**Certificate in Selling and Sales Management**  
MAR 3403  Sales Force Management  
**MAR 4941**  (internship in sales-related position)  
One additional Marketing elective  
**Certificate in Retailing Management**  
MAR 4231  Retailing Management  
**MAR 4941**  (internship in retail-related position)  
One additional Marketing elective  
**Certificate in e-Marketing**  
MAR 3880  e-Marketing  
**MAR 4941**  (internship in “e”-related position)  
One additional Marketing elective  
**Certificate in Sport Marketing Management**  
MAR 4711  Sport Marketing  
**MAR 4941**  (internship in sport-related position)  
One additional Marketing elective  
**Certificate in Healthcare Marketing**  
MAR 4712  Healthcare Marketing  
**MAR 4941**  (internship in healthcare-related position)  
One additional Marketing elective

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**MINORS, CERTIFICATES AND STUDY ABROAD**

- 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.

**MANAGEMENT INFORMATION SYSTEMS: Minor**  
**College of Business Administration**  
**Department of MIS, BA 309**

**Credit Hour Requirements**  
18 hours  
**Required Courses**  
CGS 2100C  Computer Fundamentals for Business  
CGS 1060C  Intro to Computer Science (or equivalent)  
MAC 1105  College Algebra  
MGF 1106  Finite Mathematics  
ISM 3011  Management Information Systems  
ISM 3214  Database Management Systems in Business  
ISM 3422  Essentials of Electronic Commerce  
ISM 3013  Introduction to Information Systems Management  
ISM 3521  Business Applications  

electives (choose one)  
ISM 3424  Computer-aided Decision Making  
ISM 3043  Technology and Society  
Any programming language course  
Other ISM course (requires prior approval)  

**Other Requirements**  
A minimum GPA of 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.  
Grades below “C” (2.0) are not accepted.  
No credit by exam (TSD, Military credit) may be used.  
Internship or Independent Study credit cannot be used toward the minor.

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**MARKETING INFORMATION SYSTEMS: Minor**  
**College of Arts and Sciences**  
**Nicholson School of Communication, COM 258**  
http://www.cas.ucf.edu/communication  
journalism@ucf.edu  
Dr. Maria C. Santana, 407-823-2681  

**Prerequisites**  
- Grammar proficiency requirement  

**Credit Hour Requirements**  
18 hours  
**Required Courses**  
JOU 2100C  News Reporting  
JOU 3510  Magazine Publishing  
JOU 4224  Magazine Editing and Production  

**Restricted Upper Division Electives**  
ENC 3310  Magazine Writing I  
JOU 3200  Editing I  
JOU 3202  Editing II  
JOU 4300  Feature Writing  
JOU 4308  Freelance Writing  
JOU 4404C  New Media Studies  

**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.
Minors, Certificates and Study Abroad

MASS COMMUNICATION: Minor
College of Arts and Sciences
Nicholson School of Communication, COM 228
http://www.cas.ucf.edu/communication
communication@ucf.edu
Mike Meeske, 407-823-2681

Credit Hour Requirements 21 hours
Required Courses (3 hrs)
CPR 3412 Emergency Health Care Responder

Restricted Electives (18 hrs)
ADV 3000 Principles of Advertising
COM 3330 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 Development and Structure of Electronic Media
RTV 3200 Production Fundamentals and Aesthetics of Electronic Media
RTV 4403 Electronic Media, Technology and Society

Restricted Electives (12 hrs)
ARA 2200 Intermediate Arabic Language I
ASH 3222 Islam and its Empires
ASH 3227 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 Art of Religion
REL 2390 World Religions

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.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

MATHMATICS: Minor
College of Arts and Sciences
Department of Mathematics, MAP 230C
http://math.ucf.edu
math@ucf.edu
Martin Heinz, 407-823-2697, mheinzer@pegasus.cc.ucf.edu

Credit Hour Requirements 21 hours
Required Courses (15 hrs)
Select one complete Calculus sequence 12 hrs
MAC 2311, MAC 2312, MAC 2313 or MAC 2311, MAC 2312, MAC 2233
MAP 2322 Differential Equations 3 hrs
(MAC 2311 and 2312 may be waived by the Department Standards Committee for a student with adequate high school preparation in calculus. The student would increase Restricted Electives' hours accordingly to earn the hours required in the minor)

Restricted Electives (6 hrs)
The Restricted Electives must be from the Department of Mathematics at UCF and must include one course at the 4000-5000 level.
MAA XXXX (any 3000, 4000, or 5000 level course)
MAD XXXX (any 3000, 4000, or 5000 level course)
MAP XXXX (any 3000, 4000, or 5000 level course)
MTG XXXX (any 3000, 4000, or 5000 level course)
any mathematics Honors courses that are approved for this purpose by the Department Standards Committee.
(Either MAA 3105 or MAA 3106 may be used but not both. Courses may be select-
ed from MAA 4225 and MAA 4227, or MAA 5210 but not both.)

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.

MILITARY SCIENCE: Minor
College of Engineering and Computer Science
Army ROTC, BLDG 501
LTC John J. Ruzich, 407-823-2430

Credit Hour Requirements 19 hours
Required Courses (9 hrs)
MSL 3201 Leadership and Problem Solving 3 hrs
MSL 3201L Leadership and Problem Solving Laboratory 1 hrs
MSL 3202 Leadership and Ethics 3 hrs
MSL 3202 Leadership and Ethics Laboratory 1 hrs
MSL 4301 Leadership and Management 3 hrs
MSL 4301L Leadership and Management Laboratory 1 hrs
MSL 4302 Officer Leadership 3 hrs
AMH 4302L Officer Leadership Laboratory 1 hrs
AMH 3540 Military History 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 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
College of Health and Public Affairs
Department of Molecular Biology and Microbiology, HPA2 335
P.E. Kolattukudy, 407-823-5932
E-mail: pkolattu@mail.ucf.edu
Credit Hour Requirements
Required Courses (23 hrs)
BSC 2010C General Biology 4 hrs
MCS 3020C General Microbiology 5 hrs
PCB 3233 Immunology 3 hrs
PCB 323L Immunology Laboratory 1 hr
PCB 3523 Molecular Biology I 3 hrs
PCB 4524 Molecular Biology II 3 hrs
BSC 3404C 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 Sciences
Department of Music, CNH 205
http://pegasus.cc.ucf.edu/~ucfmusic
music@ucf.edu
TBA, 407-823-2869
Admission Requirement
A successful audition on the student’s principal instrument or voice.
Credit Hour Requirements
Required Courses (21 hrs)
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 2100 Enjoyment of Music 3 hrs
Major Ensemble- 4 semesters (credit must spread over at least 4 separate semesters)
Performance level I-2 semesters 4 hrs
Performance level II-2 semesters 4 hrs (on the same performance medium)
MUS 1010 Music Forum (4 semesters) 0 hrs

Other Requirements
- Two semesters of a major performing organization and two semesters of performance level II, must be completed at UCF.
- A minimum GPA of 2.0 is required in all music courses attempted, whether or not 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 department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

MUSIC TECHNOLOGY: Certificate
College of Arts and Sciences
Department of Music, CNH 205
http://pegasus.cc.ucf.edu/~ucfmusic
music@ucf.edu
TBA, 407-823-2869
This certificate is designed for undergraduate students majoring in music who desire to devote time to specific coursework in each of these areas. This is only a component of the B.A. or B.Music degree, provided that the student works with an advisor in the program.
Admission Requirement
Student must satisfactorily audition for the Department of Music.

Credit Hour Requirements
Required Courses (12 hrs)
MUC 3311 MIDI Sequencing I 3 hrs
MUC 4441 MIDI Sequencing II 3 hrs
MUS 4347C Digital Notation 3 hrs
MUC 1101C Composition I 1 hr
Directed Experience 2 hrs

Other Requirements
- Must complete all course and non-course requirements (recitals and proficiency examinations) of the Music major in order to qualify for the certificate within the degree.
- A minimum GPA of 2.0 is required in all music courses attempted, whether or not used to satisfy the certificate.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least nine hours used in the certificate 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 certificate.

NONPROFIT MANAGEMENT: Certificate
College of Health & Public Affairs
Department of Public Administration, HPA2 238
http://www.cohpa.ucf.edu/pubadm/
Mary Ann Feldheim, 407-823-2604
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.
Credit Hour Requirements
Required Courses (15 hrs)
PAD 4144 Nonprofit Organizations 3 hrs
PAD 4148 Volunteer Management 3 hrs
PAD 4147 Resource Dev. in the Nonprofit Sector 3 hrs
PAD 4325 Program Eval. Public & Nonprofit Org 3 hrs
PAD 4153 Strategic Planning & Implementation 3 hrs

Restricive Elective Course
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.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the program.

NORTH AMERICAN INDIAN STUDIES: Minor
College of Arts and Sciences
Department of Sociology and Anthropology, PH 403
David E. Jones, 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 hours)
Required Courses (6 hrs)
ANT XXXX Survey of the North American Indians 3 hrs
ANT 4912 Directed Thesis Research 3 hrs

Restricted Electives (12 hrs)
Courses used in the minor must be taken in at least two departments. Select four courses from the following list.
ANT 3245 Religions of the North American Indians 3 hrs
ANT 3313 Indians of the North American High Plains 3 hrs
ANT 3311 Indians of the Southeastern United States 3 hrs
ANT 3158 Florida Archaeology 3 hrs
ANT 4906 Independent Study 3 hrs
ANT 3314 Indians of the Northeast Woodlands 3 hrs
ANT 3318 Indians of the Northwest Coast 3 hrs
AMH 3441 History of the Frontier: Eastern America 3 hrs
Select two courses
Applications (6 hours)

Select one course
Disciplinary and Interdisciplinary Knowing (3 hours)

Select one course from each of the following groups:

Credit Hour Requirements 21 hours
Required Courses (6 hrs)
COM 3120 Organizational Communication 3 hrs
COM 3311 Communication Research Methods 3 hrs

Restricted Upper Division Electives (15 hrs)
COM 3011 Communication and Human Relations
COM 3110 Business and Professional Communication
SPC 3425 Group Interaction and Decision-Making
SPC 3445 Leadership Through Oral Communication
COM 4461 Intercultural Communication
COM 4462 Conflict Management

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 Arts and Sciences
Nicholson School of Communication, COM 258

communication@ucf.edu

K. Phillip Taylor, 407-823-2681

Credit Hour Requirements 21 hours
Required Courses 6 hrs

Restricted Upper Division Electives 15 hrs

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 prior approval from the Chair.
- Any substitutions must be approved by the department prior to being taken.

PHILOSOPHY: Minor
College of Arts and Sciences
Department of Philosophy, CNH 411

http://www.cas.ucf.edu/philosophy

philosophy@ucf.edu

TBA, 407-823-2273

The Philosophy minor is intended to provide a limited, yet substantive, introduction to the philosophy program in 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
Philosophical Foundations: 9 hrs
Select one course from each of the following groups:

Reasoning
PHI 2011 Philosophical Reasoning
PHI 2101 Critical Thinking
PHI 2100 Formal Logic I

Ethics
PHI 3670 Ethical Theory

Knowledge
PHI 3320 Philosophy of Mind
PHI 4341 Ways of Knowing
PHI 4300 Theories of Knowledge

Disciplinary and Interdisciplinary Knowing

Select one course
PHI 3400 Philosophy of Law
PHI 3700 Philosophy of Religion
PHI 4400 Philosophy of Science
PHI 4420 Philosophy of Social Science
PHI 4351 Philosophy of Psychology
PHI 3800 Aesthetics

Applications
Select two courses
HUM 4330 Performance Theory
PHI 2847 Logic and Ethics
PHI 3022 Sexuality, Gender & Philosophy
PHI 3033 Philosophy, Religion, and the Environment

Credit Hour Requirements 20 hours
Required Courses 11 hrs

Restricted Upper Division Electives 9 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 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 without prior departmental permission.

PHYSICS: Minor
College of Arts and Sciences
Department of Physics, MAP 310

http://www.physics.ucf.edu

physics@ucf.edu

Ralph Llewellyn, 407-823-2325

Credit Hour Requirements 20 hours
Required Courses 11 hrs

PHY 2049 Physics for Eng and Sci I 3 hrs
PHY 2049L Physics Laboratory for Eng and Sci I 1 hr
PHY 2049 Physics for Eng and Sci II 3 hrs
PHY 2049L Physics Laboratory for Eng and Sci II 1 hr
PHY 3101 Physics for Eng and Sci III 3 hrs

Restricted Upper Division Electives 9 hrs

Other Requirements
- Any substitutions must be approved by the department prior to being taken.

POLITICAL SCIENCE: Minor
College of Arts and Sciences
Department of Political Science, CNH 415

http://pegasus.cc.ucf.edu/~politics

politics@ucf.edu

Roger Handberg, 407-823-2608

Credit Hour Requirements 18 hours
Required Course 3 hrs
POS 2041 American National Government

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 counted

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 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 prior departmental permission.
POLITICAL SCIENCE/PRE-LAW: Minor
College of Arts and Sciences
Department of Political Science, CNH 415
http://pegasus.cc.ucf.edu/~politics
politics@ucf.edu
Roger Handberg, 407-823-2608

Credit Hour Requirements 18 hours
Required Courses
- POS 2041 American National Government 3 hrs
- POS 4284 Judicial Process and Politics 3 hrs

Restricted Elective
- INS 4401 International Law I
- INS 4402 International Law II
- POS 4603 American Constitutional Law
- POS 4604 American Constitutional Law II

Restricted Upper Division Electives (9 hrs)
- Three Upper Division Political Science Courses (selected with the aid of a departmental advisor)
- Only three hours of POS 4941 (Internship) may be counted

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 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 prior departmental permission.

PSYCHOLOGY: Minor
College of Arts and Sciences
Psychology Department, PH 302
http://pegasus.cc.ucf.edu/~psych
psychology@ucf.edu
Jack McGuire, 407-823-2216

The Psychology Department offers minors in several emphasis areas; Clinical Psychology, Human Factors Psychology, and Industrial/Organizational Psychology. The guiding principle in design of a minor is to select those Psychology courses which will strengthen the graduate school preparation and/or the marketability of the student’s major program. Emphasis areas will not appear on the transcript.

Credit Hour Requirements 22 hours
Required Courses
- PSY 2012 General Psychology 3 hrs
- STA 2014C Principles of Statistics or STA 2023 Statistical Methods I 3 hrs
- PSY 3214C Research Methods in Psychology 4 hrs

Restricted Electives
- 12 hours of Psychology 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 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
Dr. Ronnie L. Korosec, 407-823-5732
E-mail: rkorosec@mail.ucf.edu

Credit Hour Requirements 18 hours
Required Courses
- PAD 3003 Public Admin in American Society 3 hrs
- PAD 4034 The Administration of Public Policy 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.

RELIGIOUS STUDIES: Minor
College of Arts and Sciences
Philosophy Department, CNH 411
http://www.cas.ucf.edu/philosophy
philosophy@ucf.edu
TBA, 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 hours
Required Courses
- REL 2300 World Religions 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 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.

RUSSIAN AREA STUDIES: Minor
College of Arts and Sciences
History Department, CNH 551
history@ucf.edu
Richard Crepeau, 407-823-2224

Credit Hour Requirements 19 hours
Language requirement
- RUS 1121 Elementary Russian Lang & Civ I (4 hrs) (completion of the course or credit by examination)

Required Courses
- EIUH 4571 History of Russia to 1801 3 hrs
- EIUH 4574 History of Russia: 1801-1917 3 hrs
- CPO 3614 Politics of Eastern Europe 3 hrs
- ECO 3703 International Economics 3 hrs
- INR 4035 International Political Economy 3 hrs
- EUH 4582 20th Century Russian Diplomatic History 3 hrs

Other Requirements
- A minimum GPA of 2.0 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.
- Except for the foreign language requirement, no credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
SECURITY MANAGEMENT: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA 311
Jerome Randall, 407-823-2603
E-mail: jrandall@mail.ucf.edu

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.

Credit Hour Requirements
15 hours
Required Courses (12 hrs)
- CJT 3804 Security Administration 3 hrs
- CJT 3833 Security Management 3 hrs
- CJT 4843 Risk Management 3 hrs
- CCJ 4644 White Collar Crime 3 hrs

Restricted Upper Division Electives (3 hrs)
Select one of the following:
- CCJ 4661 Conflict and Terrorism 3 hrs
- CJE 4444 Crime Prevention 3 hrs
- CJT 4842 Special Security Problems 3 hrs
- PLA 5357 Seminar in Contemporary Legal Problems 3 hrs
- PLA 3273 Law of Torts 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 certificate 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.

SOCIAL SCIENCES - INTERDISCIPLINARY: Minor
College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
ls@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

Credit Hour Requirements
21 hours
Required Courses (3 hrs)
One method course, selected from the three immediately below
- POS 3703 Scope and Methods of Political Science
- PSY 3241C Research Methods in Psychology
- SYA 3300 Research Methods

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.

SPANISH: Minor
College of Arts and Sciences
Department of Sociology & Anthropology, PH 403
http://www.cas.ucf.edu/soc_anthro firstpage.html
sociology@ucf.edu
Jay Corzine, 407-823-2227

Credit Hour Requirements
18 hours
Required Courses (3 hrs)
SYG 2000 General Sociology

Restricted Electives (3 hrs)

Other Requirements
- A minimum grade of "C" (2.0) is required in all courses used to satisfy the minor.
- 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, Co-op, or Independent Study credit cannot be used toward the minor.

SPACE STUDIES: Minor
College of Engineering and Computer Science
Department of Mechanical, Materials and Aerospace Engineering, ENGR 307
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 hours
Required Courses (9 hrs)
- AST 2002 Astronomy 3 hrs
- EGN XXXX ST: Space Science and Technology 3 hrs
- GEO 4131C Remote Sensing of the Environment 3 hrs

Restricted Electives (12 hrs)
- EAS 3010 Fundamentals of Aerospace Flight 3 hrs
- EAS 3101 Fundamentals of Aerodynamics 3 hrs
- EAS 3530 Space Systems Concepts 3 hrs
- EAS 4505 Orbital Mechanics 3 hrs
- EGN 4830 Telecommunications 3 hrs
- GEO 1200 Physical Geography 3 hrs
- GEO 2370 Resources Geography 3 hrs
- INR 4404 Space Law 3 hrs
- PET 4351 Applied Exercise and Human Psychol 3 hrs
- PUP 3508 Space Studies 3 hrs
- PUP 4510 Space Policy 3 hrs
- SCE 5825 Space Science for Educators 3 hrs

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 Sciences
Foreign Languages and Literatures, CNH 523
http://pegasus.cc.ucf.edu/~forlang
foreignlanguage@ucf.edu
C. E. Stebbins, 407-823-2472

Credit Hour Requirements
18 hours
Restricted Electives (9 hrs)
Select six upper division courses in Spanish, including the 2000-4000 level Sociology courses

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.

Minors, Certificates and Study Abroad
Statistics Department, CC II 212
http://www.cas.ucf.edu/statistics
statistics@ucf.edu
Statistics Department, CC II 212

STATISTICS: Minor
College of Arts and Sciences
Statistics Department, CC II 212
http://www.cas.ucf.edu/statistics
statistics@ucf.edu
L. Hoffman, 407-823-5525

Required Courses (9 hrs)
Credit Hour Requirements 18 hours

<table>
<thead>
<tr>
<th>Required Courses</th>
<th>9 hrs</th>
<th>3 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 2023</td>
<td></td>
<td></td>
</tr>
<tr>
<td>or</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STA 3032</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STA 4163</td>
<td></td>
<td></td>
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<tr>
<td>STA 4164</td>
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</tbody>
</table>

Restricted Upper Division Electives (9 hrs)

STA 3xxx-4xxx courses
(STA 2023 or STA 3032 or the equivalent cannot be used as a restricted elective)

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.

Technology and Society: Minor
College of Engineering and Computer Science
ENGR 207

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 hours

Suggested Prerequisite Courses
- MAC 1105 College Algebra
- GEP Cultural and Historical Foundations

Restricted Upper Division Electives
A minimum of nine hours must be taken from the EGN/ETI prefix courses listed below

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 4033 Technology and Social Change</td>
<td></td>
</tr>
<tr>
<td>EGN 4013 Science in History</td>
<td></td>
</tr>
<tr>
<td>EGN 4814 Technology in History</td>
<td></td>
</tr>
<tr>
<td>EGN 4823 Topics in Urban Development</td>
<td></td>
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<tr>
<td>EGN 4824 Energy and Society</td>
<td></td>
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<tr>
<td>EGN 4825 Environmental Politics</td>
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<tr>
<td>EGN 4830 Telecommunications</td>
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</tr>
<tr>
<td>ETI 3671 Technical Economic Analysis</td>
<td></td>
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<tr>
<td>ETI 4205 Applied Logistics</td>
<td></td>
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<tr>
<td>ETI 4700 Occupational Safety</td>
<td></td>
</tr>
<tr>
<td>GEO 2370 Resources Geography</td>
<td></td>
</tr>
<tr>
<td>LIT 3313 Science Fiction</td>
<td></td>
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<tr>
<td>LIT 4433 Survey of Technical and Scientific Literature</td>
<td></td>
</tr>
<tr>
<td>PUP 3203 Environmental Politics</td>
<td></td>
</tr>
<tr>
<td>PUP 4503 Government and Science</td>
<td></td>
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<tr>
<td>PUP 4510 Space Policy</td>
<td></td>
</tr>
</tbody>
</table>

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.

Translation and Interpretation: Certificate
College of Arts and Sciences
Foreign Languages and Literatures, CNH 505
http://pegasus.cc.ucf.edu/~forlang
foreignlanguage@ucf.edu
Maria Redmon, CNH 512, 407-823-5738
redmon@ucf.edu

Credit Hour Requirements 18 hours

Required Skills
Students must pass an oral exam for proficiency in Spanish and English before being admitted to the certificate program.

Restricted Upper Division Electives (9 hrs)

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPT 3800 Spanish Translation and Interpretation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPT 3809 Medical Spanish Trans/Interp</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPT 3830 Spanish Legal Trans/Interp</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPN 3933 Spanish Across the Curriculum</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SPN 4941 Internship</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Any upper division SPN or SPT course with advisor’s approval

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.

Urbano and Regional Planning: Minor
College of Health and Public Affairs
Department of Public Administration, HPA2 238
Dr. K. Tom Loui, 407-823-2604
Fax: 407-823-5651

Credit Hour Requirements 21 hours

Required Courses (21 hrs)

<table>
<thead>
<tr>
<th>Courses</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 3000 Urban and Regional Planning</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
WOMEN'S STUDIES: Minor

Required Courses (6 hrs)
- WST 3015 Introduction to Women's Studies
- Select one course from the Feminist Theory group.
- PHM 3123 Feminist Theories or
- LIT 4554 Advanced Feminist Theories

Upper Division Electives (12 hrs)*
- Select two courses in each of two areas listed below:
  - Women's History
    - AMH 3561 Women in American History I
    - AMH 3562 Women in American History II
    - ASH 4304 Women in China
    - EUH 4610 Women in European Society
  - Representations of Women
    - AML 3283 Contemporary American Women's Fiction
    - ARH 4458 Women and Art in 20th Century America
    - ARH 4892 Women in Art
    - COM 4014 Gender Issues in Communication
    - FIL 3309 Women in Film
    - LIT 3383 Women in Literature
    - PHI 3022 Sexuality, Gender & Philosophy
  - Women's Wellness
    - NUR 4935 Women's Health Issues
    - PEM 2405 Self Defense for Women and Men
    - SOP 2772 Sexual Behavior
    - SOP 3742 Psychology of Women

Other Requirements
- A minimum GPA of 2.0 is required in each course used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- All requirements and should select foundations courses that best complement their major area of study.
- 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.
- No credit by exam (TSD, Military credit) may be used.
- At least 12 hours used in the minor must be earned at UCF.
- A GPA of 2.0 or better is required in all courses used to satisfy the certificate.
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- No Military credit can be used toward 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 without approval of the program coordinator.
- No more than one 2000 level course can be used toward the minor.

WOMEN'S STUDIES: Certificate

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.

Required Course: (3 hrs)
- WST 3015 Introduction to Women's Studies

Restricted Electives (6-9 hrs)
See listing for minor. Certificate students are exempt from the distribution requirements and should select foundations courses that best complement their major area of study.

Internship Option: (0-3 hrs)
Internships required by a student's major degree program may count for credit toward the certificate, if placement is substantively related to women and/or women's issues.

Other Requirements
- A GPA of 2.0 or better is required in all courses used to satisfy the certificate.
- Grades below “C” (2.0) in lower level courses are not accepted.
Minors, Certificates and Study Abroad

- At least 9 hours used in the certificate 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 certificate without approval of the program director.
- No more than one 2000 level course can be used toward the certificate.

STUDY ABROAD: Programs
http://www.international.ucf.edu
College of Arts and Sciences
Department of Foreign Languages and Literatures, foreignlanguage@ucf.edu
Colburn Hall 523
Consuelo Stebbins, 407-823-2472
The Department of Foreign Language and Literatures offers six Study Abroad Programs during the summer session. These programs are approved by the State of Florida Board of Regents and are offered annually. Credit courses are available in languages at various levels. The programs are open to all students of the State University System of Florida and to others as well.

Koblenz, Germany
Koblenz is a charming city located in one of the picturesque regions of Europe, at the junction of the Rhine and Moselle rivers. Since France, Belgium and Luxemburg are very close, the city has always had an international flair. The program is housed at the University of Koblenz and offers courses in German language and civilization at the intermediate and advanced levels; all participants earn 8 credits. A number of spectacular excursions are included. This program takes place during Summer B term.

Amman, Jordan
Modern Amman preserves its ancient past. The Assyrians, the Babylonians, the Greeks, the Arabs, the Jews and the Byzantines have all left evidence of their art, religions and culture. Students earn six credits in intermediate or advanced written and spoken Arabic as well as the history, art, politics and customs of Jordan and the Moslem world.

Urbino, Italy
The city of Urbino, on the slopes of the Eastern Appennines, is one of the major centers for the study of Renaissance art and architecture. The modern university sponsors a number of conventions of learned societies and cultural events in the summer. Courses in Renaissance art and modern Italian letters are given in English; language courses are conducted in Italian. A number of weekend excursions throughout central Italy are included. This popular program takes place during Summer B term.

Madrid, Spain
World-class museums and a lively cultural agenda make Madrid an ideal location. This program is 6 weeks and designed for students who wish to continue their study of the Spanish language and civilization. Language courses will be offered from the intermediate level through the advanced. Classes meet Monday through Friday with several weekend trips to major destinations of cultural and artistic interest in the region. All students take one language, one conversation and one cultural course for 9 credit hours. This program takes place during Summer B term.

Dominica, Guadeloupe and Martinique
The volcanic islands of Dominica, Guadeloupe and Martinique are surrounded by beautiful beaches in the Caribbean. This program is designed for students interested in the French language and culture, the Caribbean, the Creole cultures as well as the African Diaspora as areas of study. All students take a combination of one culture course and a language course or one study abroad seminar for a total of 6/7 credit hours. Weekend excursions to neighboring islands are part of this Study Abroad experience. This program takes place during Summer B term.

Amboise, La Rochelle, France
Amboise is a quiet community of 12,000 residents, known for the time that Italian artist Leonardo da Vinci spent in Le Clos Luce, a pink brick manor in Amboise’s center. LaRochelle, on the Atlantic coast, prides itself on 800 years of seafaring history. Courses are offered at the intermediate and advanced levels and students earn 6/9 credit hours. Weekend excursions are planned to various points of interest. This program takes place during Summer A term.

Urayasu, Japan
Urayasu, Chiba Prefecture, is located to the east of Tokyo. This former fishing village on the Bay of Tokyo is now a fast-growing suburb of Tokyo with a population of approximately 135,000. This program offers elementary, intermediate and advanced Japanese language and culture courses at Meikai University. All students will take a language course, and conversation course and a culture course. This program takes place during Summer B term.

ENGLISH STUDY ABROAD: Program
College of Arts and Sciences
Department of Art, Visual Arts Building, 117
Edinburgh, Scotland
Fine Arts
Students register for ART 4906 (4 credits) and enroll in two consecutive weeklong courses at the Edinburgh School of Art. Edinburgh is a small friendly city with a wealth of Historic and cultural attractions that inspire the creative spirit.

Mexico City, Mexico
Art History
In Mexico, the clash of the Spanish and the Aztec civilizations a half-millennia ago created a tapestry of regions, customs and rituals. Nowhere is this better reflected than in the art of Mexico City. Students enroll in ARH 3930 in Summer A. The course in Art History incorporates a ten day excursion to Mexico City.

MUSIC STUDY ABROAD
Department of Music
Colburn Hall, 205
Instruments
Moulin D’Ande, France
Students will reside at the mill, which was originally constructed in the 12th century. Today it is restored and listed as a historic monument. Since the first concert Moulin D’Ande has grown and has become an ideal retreat for artists, writers and musicians. Students earn two credits learning to play instruments of their choice.

HEALTH STUDY ABROAD
College of Health and Public Affairs
School of Social Work
Health and Public Affairs Building, 204
Pretoria, South Africa
South Africa is rapidly emerging as a leading force on the African continent and an active player on the global stage. Undoing the years of apartheid and worldwide sanctions is a significant undertaking that is accompanied by a myriad of social, political and economic concerns. Johannesburg and Pretoria are the ideal backdrop against which to study the developing South Africa. Graduate and undergraduate students earn 3 credits. Program consists of morning classroom lectures and discussions followed by afternoon field trips that compliment each morning’s class topic.

Several programs combine undergraduate and graduate coursework in a more seamless educational experience for students, reducing the time spent working on both degrees and providing a challenging educational experience to outstanding undergraduates. These combined bachelor’s/master’s (3+2 or 4+1) programs usually take five years of work to earn both degrees.

While students are classified as undergraduate students, they are subject to undergraduate policies. Similarly, those who are classified as graduate students are subject to graduate policies.
ACCELERATED UNDERGRADUATE-GRADUATE PROGRAMS

ECONOMICS ACCELERATED
UNDERGRADUATE-GRADUATE
PROGRAM (B.A./M.A.A.E.)

College of Arts and Sciences
Economics Undergraduate Program, CNH 201
Political Science, via the LS Advising Team,
407-823-0144 http://www.cas.ucf.edu
College of Business Administration
BA 240, 407-823-2184 http://www.bus.ucf.edu

The accelerated Program allows outstanding Economics students to
earn a B.A. degree and a M.A.A.E. degree in as few as five
years. Students earn fifteen hours of graduate credit toward the
M.A.A.E. while still in undergraduate, and then earn an additional
fifteen credits after earning the B.A. degree.

Admission Guidelines
- 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, through the Economics Department.
- Admission is not automatic.
- Students must meet the following criteria:
  - A GPA of 3.25 or higher after completion of 80 credit hours
  - A score of 1260on the SAT or 28 ACT. If students do not meet
    this criterion, they must submit a GMAT score of 500 or above.
  - A TOEFL of 233 (computer test).

Undergraduate 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.
- Independent study forms must be approved by the director prior
to taking an independent study for use in the program.
- Students must earn at least a “C” (2.0) in each restricted elective
course.
- Students must consult with a program advisor in order to prepare
  an application.
- Courses designated in 1 (General Education Program) and 2
  (Common Program Prerequisites) are usually completed in the
  first 60 hours.

Graduate Degree Requirements
- The accelerated Program involves a minimum of 135 credits for
  completion of both the B.A. and M.A.A.E. degrees.
- The graduate requirements listed in the Graduate Catalog take
  precedence over those listed below.
- Students take fifteen 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 all graduate credit
  hours.
- All requirements of the undergraduate and graduate degree pro-
  grams must be fulfilled.
- Students should consult with a program advisor before applying
  for the program.
- Approval for course substitutions and for graduate courses must
  be given by the Economics advisors.
- The B.A. will be awarded after completing all the requirements
  for that degree in the undergraduate program.

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 CSG 2100C Computer Fundamentals for Business 3 hrs
   D. Social Foundations
      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 (3 hrs)
   ECO 2013* Macroeconomics
   ECO 2023* Microeconomics
   * See transfer notes for possible substitutions

3. Required Undergraduate Major Courses (15 hrs)
   ECO 3101 Intermediate Price Theory 3 hrs
   ECO 3203 Aggregate Econ. Conditions Analysis 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 3000-4000 level economics elective 3 hrs

5. Courses shared BA/MAAE (15 hrs)
   ECO 6403 Mathematical Economics 3 hrs
   ECO 6416 Applied Business Research Tools 3 hrs
   ECO 6118 Microeconomics Analysis 3 hrs
   ECO 6206 Aggregate Econ. Conditions & Analysis 3 hrs
   ECO 6424 Econometrics 3 hrs
   * 15 hours can count towards both BA and MAAE

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: Two semesters or equivalent proficiency.

9. Electives (variable)

10. University Minimum Exit Requirements - B.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 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 hours

11. Courses taken toward MAAE (9 hrs)
    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.

12. End of Program Option: (6 hrs)
    All candidates for the M.A. in Applied Economics degree must com-
    plete an end-of-program option. This requirement can be met by any
    of the following three equivalent options: 1) Thesis option, 2)
    Graduate internship option, or 3) All course work option. All candi-
    latees must satisfactorily complete a comprehensive, end-of-program,
    final examination.
    See the graduate catalog for a detailed description of the options.

Total Semester hours (BA/MAAE) 135 hrs

The baccalaureate degree will be awarded when program require-
ments for the BA are met and students have completed a minimum
of 120 hours of credit. Students will then be reclassified as graduate
Accelerated Undergraduate-Graduate Programs

students. The MAAE will be awarded on completion of the total program of study.

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.

Transfer Notes:
- Grades below “C” (2.0) are not accepted.
- Courses taken at community college do not substitute for Upper Division courses.
- Courses transferred from private and out-of-state schools must be equivalency credit. The student must provide all supporting information.

Acceptable substitutes for Common Program Prerequisites if taken prior to transferring to UCF:
- ECO 2023 and ECO 2023 may use any ECO course. However, both ECO 2023 and ECO 2023 are prerequisites for subsequent economics courses and will still need to be taken.

ECONOMICS ACCELERATED
UNDERGRADUATE-GRADUATE
PROGRAM (B.S.B.A./M.A.A.E.)

College of Business Administration
BA 240, 407-823-2184 http://www.bus.ucf.edu

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

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
   Select MAC 1105 College Algebra
   Select CSG 2100C Computer Fundamentals for Business
   D. Social Foundations
   Select ECO 2013 Principles of Macroeconomics I or ECO 2023 Principles of Microeconomics II
   Select one: PSY 2012, SYG 2000, ANT 2000
   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 Principles of Macroeconomics
   - ECO 2023 Principles of Microeconomics
   - ECO 3401 Quantitative Business Tools I
   - CSG 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. Common Body of Knowledge (30 hrs)

   First Semester in the College of Business Administration:
   - GEB 3031 Cornerstone
   - GEB 3356 Introduction to International Business

   First or subsequent semesters depending on major:
   - BUL 3130 Legal & Ethical Environ. 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. Required Undergraduate Major Courses (9 hrs)
   - ECO 3101 Intermediate Price Theory
   - ECO 3203 Aggregate Econ Conditions Analysis
   - ECO 4451 Research Methods in Economics

5. Restricted Electives (12 hrs)
   Select one 3000 - 4000 level elective
   Select one 5000 level elective from the Career-Oriented Specialization (six hours in Economics required)

6. Electives

Six additional hours of required graduate courses (ECO 6XXX Math. Economics and ECO 6416 Applied Business Res. Tools) will count towards completion of 120 hours of the BSBA degree.

Total Semester Hours Required 120 hours

Economics MAAE Degree Requirements

The Master of Arts in Applied Economics component of the BSBA-MAAE degree requires 30 semester hours based on admission into the BSBA/MAAE program and completion of 120 semester hours of the BSBA component. Up to 15 hours of graduate courses will count towards the completion of the BSBA component of the BSBA/MAAE degree.

Prerequisites -120 semester hours

- Admission in to the BSBA/MAAE Degree Program
- Completion of the undergraduate requirements of the Economics BSBA/MAAE degree

Courses taken toward BSBA
- ECO 3101 Intermediate Price Theory
- ECO 3203 Aggregate Econ. Conditions Analysis
- ECO 4451 Research Methods in Economics
- Select one 3000-4000 level elective

Courses shared BSBA/MAAE
- ECO 6XXX* Mathematical Economics
- ECO 6416* Applied Business Research Tools
- Select three 6000 level electives from the Career-Oriented Specialization (six hours in Economics required)

Oriented Specialization (six hours in Economics required)

A maximum of three hours of an approved non-economics elective may be completed from disciplines such as accounting, finance, management, marketing, mathematics, statistics, public administration, health sciences, political science, computer science, and environmental engineering.

Career-Oriented Elective Concentration

Same as MAAE

Courses taken toward MAAE
- ECO 6XXX Microeconomic Analysis
- ECO 6206 Aggregate Econ. Conditions & Analysis
- ECO 6424 Econometrics

End of Program Option

6 hours

Same as MAAE

The baccalaureate degree will be awarded when program requirements for the BSBA are met and students have completed a minimum of 120 hours of credit. Students will then be reclassified as graduate students. The MAAE will be awarded on completion of the total program of study.

Total Semester hours (BSBA/MAAE) 135 hours

HISTORY ACCELERATED
UNDERGRADUATE-GRADUATE
PROGRAM (B.A. and M.A.)

College of Arts and Sciences
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: Rosalind J. Beiler

Purpose of this degree - This program allows highly qualified undergraduate majors in history to begin taking graduate-level courses 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
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
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 “B” (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 in 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 courses work the summer after they complete their B.A.
- Students enroll in nine hours of graduate-level courses in both 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
(See the History major in this catalog for track specific GEP requirements)
(36 hrs)
2. Common Program Prerequisites
AMH 2010* U. S. History: 1492-1877 GEP
AMH 2020* U. S. History: 1877-Present GEP
*See Transfer Notes for possible substitutes
(0 hrs)
3. Core Requirements
HIS 4150 History & Historians 3 hrs
Select one sequence
EUH 2000, 2001 Western Civilization I & II 6 hrs
(9 hrs)

4. Upper Division Restricted Electives
(21 hrs)
(Must be taken within the History Department)
Select six hours of approved history courses within three of the four geographic regions
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
6000-level course work for 3000- or 4000-level courses
(3 hrs)

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: Two semesters or equivalent proficiency exam. 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
HIS 6159 Historiography 3 hrs
HIS 6905 Capstone Course 3 hrs
HIS 6971 Thesis 6 hrs
(12 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 a reading competency in one foreign language. The foreign language competence must be
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)

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.)

Related Minors: African-American Studies, American Studies, Asian Studies, History, Humanities, Latin American and Iberian Area Studies, Middle Eastern Studies, Russian Area 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.

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)
  - CIT Minor 36 hrs
  - One liberal studies area 18 hrs

- Liberal Arts track (51 hrs)
  - An approved course in ethics 3 hrs
  - An approved course in critical thinking 3 hrs
  - Minor 18 hrs
  - Individual minor 24 hrs
  - Directed Readings or Honors seminar 3 hrs
  - IDS 4970H Thesis 3 hrs

- Environmental Studies Track (54 hrs)
  - Core for Environmental Studies 23 hrs
  - Subject area: Environmental Studies Fundamentals 20 hrs
  - Specialized Subject area: Values, Science, Technology, Envir. 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
Accelerated Undergraduate-Graduate Programs

Liberal Studies, Environmental Studies, and Women’s Studies tracks
- 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
- Maintain a minimum GPA of 3.2 in all upper level courses
- Computer Competency is met by IDS 4970H

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: One year college language or equivalent proficiency exam.
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 requirement must do so in order to graduate.

6. Electives (variable)
Select primarily from upper level courses, with departmental advisor’s approval.

7. University Minimum Exit Requirements - B.A./B.S.
- 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 - B.A./B.S. 120 hours
(including nine graduate credits when completing the 3+2 program).

Overall Liberal Studies M.A./M.S. Requirements (33 hrs)*
* Nine hours of graduate work are earned in the senior year, in consultation with the M.A./M.S. in Liberal Studies program director.
(See please the Graduate Catalog for specific requirements)

Core courses (9 hrs)
IDS 6308 Ways of Knowing 3 hrs
IDS 6669 Interdisciplinary Approaches to Research 3 hrs
IDS 6851 Critical Thinking and Writing 3 hrs

Concentration (18 hrs)
More than 40 concentrations and certificate affiliation programs are part of the M.A./M.S. in Liberal Studies degree. See the graduate catalog for additional information.

Options (6 hrs)
Thesis Option
Directed Readings 3 hrs
Thesis 3 hrs
Thesis defense

Non-thesis Option
Two approved graduate courses 6 hrs
Comprehensive exam

Total Hours Required - B.A./B.S. + M.A./M.S. 144 hours
Transfer Notes:
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit and for use in the degree program by the Liberal Studies Advising Team. The student must provide all supporting information.

NURSING ACCELERATED
C. RN TO MSN OPTION
College of Health and Public Affairs
HPA 220, 407-823-2744
http://www.cohpa.ucf.edu/nursing
Interim Director: Mary Lou Sole
Note: For detailed information about this program, see description in the UCF Degree Programs section.

NURSING ACCELERATED SECOND DEGREE 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: pleli@mail.ucf.edu
Interim Director: Mary Lou Sole; http://www.cohpa.ucf.edu/nursing/
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.
- UCF application 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.
- Student must receive a baccalaureate or higher degree from a regionally accredited college or university prior to the start of the program.
- All applicants must have a minimum overall of 2.5, and complete all program prerequisite courses with a grade of “C” (2.0) or better.
- Graduates are eligible 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.

Degree Requirements
- Students who change degree programs and select this major 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 grade of “C” (2.0) in the nursing major courses are required for continuation and graduation from the Nursing Program
- 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)
   - PSY 2012 General Psychology 3 hrs
   - SYG 2000 Sociology 3 hrs
   - MCB 2005C Health Microbiology 4 hrs
   - CHM 1032/L General Chemistry and lab* 4 hrs
   - ZOO 3733C Human Anatomy** 4 hrs
   - PCB 3703C Human Physiology** 4 hrs
   - STA 2014C or 2023 Principles of Statistics 3 hrs
   - SDW 3104 Assessing Human Development or DEP 3704 Developmental Psychology 3 hrs
   - HUN 3111 General Nutrition 3 hrs

* 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)
   - NUR 3026L Thera Interv. For Health Prof. 1 hr
   - NUR 3065 Health Assessment 3 hrs
   - NUR 3167 Accel Nursing Research Sem 1 hr*
   - NUR 3235 Promoting Physical & Mental Health 5 hrs
   - NUR 425L Clin Pract in Prom Phys/Mental Health 4 hrs
   - NUR 33XX Accel Hlth Fam and Comm 5 hrs
   - NUR 425L Accelerated Clin Hlth Fam and Comm 2 hrs
   - NUR 3825 Role of the Professional Nurse 2 hrs
   - NUR 3198 Pathophysiology & Pharmacology 5 hrs
   - NUR 4525 Nursing Intervention in Mental Illness 2 hrs
   - NUR 4525L Clinical Practice w/Mental Ill Client 1 hr
   - NUR 4695 Accel Comm Continuum 2 hrs
   - NUR 4685L Clinical Pract in Comm.- Orient Nsrg 2 hrs
   - NUR 4745 Nursing Care of Clients w/Acute Ill 4 hrs
   - NUR 4745L Clinical Practice in Acute Illness 4 hrs
   - NUR 4829 Accel Trans Leader 3 hrs
   - NUR 4945L Directed Nursing Practice 4 hrs
   - NUR 4XXX Nursing Elective 3 hrs **

* 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. Any variation from the above must be approved by the School of Nursing.

4. Upper Division Restricted Electives (3 hrs)
   - Nursing Elective: Not required. 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

6. Electives None

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 hours

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
ARTICULATED A.S. TO B.S. PROGRAMS

The University offers eight specialized degree programs for students who have graduated from a Florida Community College with an A.S. degree in one of the following eight programs: Electrical Engineering Technology, Business Administration, Hospitality Management, Photography, Information Systems Technology, Sports and Fitness, Nursing, and Radiologic Technology. UCF is the only university in the State University System to implement all eight of these articulation agreements.

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.
2. 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.
3. 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.
4. Students who 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.

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.

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2. 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.
3. 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.
4. Students who 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.

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2. 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.
3. 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.
4. Students who 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.

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.
Articulated A.S. To B.S. Programs

- 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 hours

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 must 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.

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
     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 Microeconomics
     ECO 2023 Macroeconomics
     MAC 2233 Concepts of Calculus
     STA 2023 Statistical Methods
     CGS 2100C Computer Fundamentals for Business

3. Required for All Business Majors (30 hrs)
   - First Semester in the College of Business Administration:
     GEB 3031 Cornerstone 6 hrs
     GEB 3356 Introduction to International Business 3 hrs
   - First or subsequent semesters depending on major:
     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 3 hrs
     STT 2102C Quantitative Business Tools I 3 hrs
     MAR 3203 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 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 prerequisite core.
   - Students wanting to major in General Business must apply for admission to the major.
   - Students not in attendance at the first class meeting of any College of Business course may be dropped from the course.
   - 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.

5. Second Level Core (5 courses):
   - Students must take one course from each of the following areas: Accounting (must take ACG 3101), 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  Intermediate Financial Markets |
   | Management | MAN 3001  Operations Management       |
   | Marketing  | MAR 4156  International Marketing     |
   |            | MAR 4841  Service Marketing           |
   |            | MAR 3613  Marketing Research and Analysis |
   |            | 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.
Articulated A.S. To B.S. Programs

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 School of Hospitality Management
Classroom Building I, Suite 302 407-823-2188
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
   Completed as part of the approved A.S. program.

3. Hospitality Management Core (24 hrs)
   - HFT 3540 Guest Services Management 3 hrs
   - HFT 3431 Hospitality Managerial Accounting 3 hrs
   - HFT 4265 Strategic Mgmt in Hospitality Industry 3 hrs
   - 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
   - HFT XXXX Practicum II 1 hr
   - HFT 3933 Distinguished Lectures in Hosp. Mgt. 1 hr

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 (18 hrs)
   - Students must take 18 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 (18 hrs)

Choose six 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 3434</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 4473</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>
</tr>
<tr>
<td>HUN 3013</td>
<td>Nutrition Concepts &amp; Issues in Food Svc</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4861</td>
<td>Beverage Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FSS 3124</td>
<td>Supply and Procurement Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FSS 4135</td>
<td>Corporate Contract &amp; Managed Services Orgs</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FSS 3232C</td>
<td>Intermediate Techniques of Food Production</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4286C</td>
<td>Catering and Banquet Organization</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4753</td>
<td>Convention &amp; Conference Services</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4754</td>
<td>Exhibit &amp; Trade Show Operations</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4735</td>
<td>Tourism Geography</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4722</td>
<td>Travel Agency Management</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4762</td>
<td>Current Practices in the Airline Industry</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4275</td>
<td>Vacation Ownership Resort Development</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4462</td>
<td>Hospitality Industry Finance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3741</td>
<td>Meeting Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3757</td>
<td>Event Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4266</td>
<td>Restaurant Brand Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4268</td>
<td>Case Studies in Multi-Unit Restaurant Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4844</td>
<td>Sanitation Mgt in Foodservice Industry</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4274</td>
<td>Vacation Ownership Resort Mgmt</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4522</td>
<td>Vacation Ownership Resort Sales Tactics</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4442</td>
<td>Vacation Ownership Resort Reservations/</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4759</td>
<td>Product Development in Theme Parks and</td>
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<tr>
<td>HFT 4758</td>
<td>Contemporary Issues in the Theme Park and</td>
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<td>HFT 4532</td>
<td>Managing the Employee Experience in Theme Parks</td>
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<tr>
<td>HFT 4298</td>
<td>Hospitality Business Consulting</td>
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<td>HFT 4473</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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<tr>
<td>HFT 4413</td>
<td>Technology Applications for Management</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4XXX</td>
<td>Hospital Communications</td>
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<td>HFT 4XXX</td>
<td>Hotel Operations</td>
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<tr>
<td>FSS 3003</td>
<td>Culture and Cuisine</td>
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<tr>
<td>HFT 3784</td>
<td>Amusement Technology</td>
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<tr>
<td>HFT 3802</td>
<td>Catering Management</td>
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<td>HFT 3770</td>
<td>Cruise Line Operations and Management</td>
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<tr>
<td>HFT 3574</td>
<td>Food Service Marketing Advertising and Promotion</td>
<td>3 hrs</td>
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<td>HFT 3654</td>
<td>Franchising in the Restaurant Management</td>
<td>3 hrs</td>
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<tr>
<td>HFT 3XXX</td>
<td>Law and Restraint Management</td>
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<tr>
<td>HFT 3374</td>
<td>Multi Media Applications in Exhibitions</td>
<td>3 hrs</td>
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<tr>
<td>HFT 3834</td>
<td>Topics in Restauran and Foodservice Mgt</td>
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<tr>
<td>HFT 4485</td>
<td>Advanced Trade Show Management</td>
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<td>HFT 4864</td>
<td>Anheuser Busch Seminar in Quality</td>
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<tr>
<td>HFT 3311</td>
<td>Brewing and Fine Beer</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4XXX</td>
<td>Contemporary Issues in Lodging Operations</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4425</td>
<td>Financial Analysis for Restraunt Managers</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4786</td>
<td>Managing the Guest Experience in Theme</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4787</td>
<td>Operational Issues in the Theme</td>
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<tr>
<td>HFT 4281</td>
<td>Restaurat Leadership Strategies and Tactics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4645</td>
<td>Restaurant Real Estate, Site Selection and</td>
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<tr>
<td>HFT 4277</td>
<td>Yacht, Country, and Club Management</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4753</td>
<td>Convention and Conference Services</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4754</td>
<td>Exhibit and Trade Show Operations</td>
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</tr>
<tr>
<td>HFT 3802</td>
<td>Catering Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3741</td>
<td>Meeting Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3757</td>
<td>Event Management</td>
<td>3 hrs</td>
</tr>
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</table>

B. Convention/Conference Management Track (18 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 3807</td>
<td>Multi-Unit Food Service Organizations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4266</td>
<td>Restaurant Brand Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4844</td>
<td>Sanitation Mgt in Foodservice Industry</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4861</td>
<td>Beverage Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>FSS 3124</td>
<td>Supply and Procurement Management</td>
<td>3 hrs</td>
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</table>

C. Food Service and Restaurant Operations Management Track (18 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HFT 4135</td>
<td>Corporate Contract &amp; Managed Services Orgs</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Plus one course from the following list:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>FSS 3232C</td>
<td>Intermediate Techniques of Food Production</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF School of Hospitality Management.

- ACG X001 and X011 will substitute for ACG 2021 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 department may allow substitutions for Hospitality classes taken at the community college. Students should check with the Hospitality Management Department 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 Education and Computer Science Engineering Technology (ENT) Department

**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 faculty 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.

1. **UCF General Education Program** (36 hrs)

- Communication Foundations 9 hrs
- Cultural and Historical Foundations 9 hrs
- Mathematical Foundations 6 hrs
- Scientific Foundations (completes AS degree program) 6 hrs
- Social Foundations 6 hrs
- Science Foundations 6 hrs

2. **Engineering Technology Core Courses** (26 hrs)

- CET 3351C Computer Applications 3 hrs
- CET 3010 Intro to Info Technology 3 hrs
- STA 2023 Statistical Methods I 3 hrs
- ETI 4448 Applied Proj Mgmt 3 hrs
- ENC 3241 Writing for the Technical Professional 3 hrs
- EET 3085C Electricity & Electronics 4 hrs
- CET 3323C Digital Technology 4 hrs
- CET 2364 Systems Applications in C 3 hrs

3. **Lower Level Required Courses Taken at Community College** (33 hrs)

4. **Required Technical Courses** (21 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 4435 Intro to Local Area Network 3 hrs
- CET 4333 Computer Organization & Design 3 hrs
- CET 4748 Wide Area Networks I 3 hrs

5. **Technical Electives** (12 hrs)

Choose four from the following:

- CET 3198C Digital Systems 3 hrs
- CET 4138 Digital Programmable Devices 3 hrs
- CET 4931 Current Topics in Technology 3 hrs
- CET 4749 Wide Area Network II 3 hrs

---

**Articulated A.S. To B.S. Programs**

<table>
<thead>
<tr>
<th>Program</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>FSS 323C Intermediate Techniques of Food Production</td>
<td></td>
</tr>
<tr>
<td>FSS 4286C Catering and Banquet Organization</td>
<td></td>
</tr>
<tr>
<td>HUN 3013 Nutrition Concepts &amp; Issues in Food Svc</td>
<td></td>
</tr>
<tr>
<td>HFT 4343 Hospitality Facilities Planning &amp; Design</td>
<td></td>
</tr>
<tr>
<td>HFT 4269 Case Studies in Multi-Unit Restaurant Management</td>
<td></td>
</tr>
<tr>
<td><strong>D. Vacation Ownership Resort Management Track</strong> (18 hrs)</td>
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</tr>
<tr>
<td>HFT 4275 Vacation Ownership Resort Development</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4274 Vacation Ownership Resort Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4522 Vacation Ownership Resort Sales Tactics and Strategies</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4442 Vacation Ownership Resort Reservations/ Data Base Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4343 Hospitality Facilities Planning &amp; Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4462 Hospitality Financial Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td><strong>E. Theme Park and Attraction Management Track</strong> (18 hrs)</td>
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</tr>
<tr>
<td>HFT 4786 Managing the Guest Experience in Theme Parks and Attraction</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4759 Product Development in Theme Parks and Attraction Industry</td>
<td>3 hrs</td>
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<tr>
<td>HFT 4758 Contemporary Issues in the Theme Park and Attraction Industry</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4532 Managing the Employee Experience in Theme Parks and Attractions Industry</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4787 Operational Issues in the Theme Park and Attraction Industry</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3757 Event Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td><strong>F. Tourism Management Track</strong> (18 hrs)</td>
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<tr>
<td>HFT 4735 Tourism Geography</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4722 Travel Agency Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4762 Current Practices in the Airline Industry</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4754 Exhibit &amp; Trade Show Operations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 3757 Event Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Plus one course from the Generalist Track (A)</td>
<td>3 hrs</td>
</tr>
<tr>
<td><strong>G. Lodging Management Track</strong> (18 hrs)</td>
<td></td>
</tr>
<tr>
<td>HFT 3313 Hospitality Physical Plant Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4343 Hospitality Facilities Planning &amp; Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4473 Hotel Development Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4753 Convention &amp; Conference Services</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4462 Hospitality Financial Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4XXX Contemporary Issues in Lodging Operations</td>
<td>3 hrs</td>
</tr>
<tr>
<td><strong>H. Hospitality Financial Management and Technology</strong></td>
<td></td>
</tr>
<tr>
<td>HFT 4442 Vacation Ownership Resort Reservations/ Data Base Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4462 Hospitality Industry Finance</td>
<td>3 hrs</td>
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<td>HFT 4473 Hotel Development Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4453 Food, Beverage and Labor Cost Controls</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4432 Hospitality Industry Auditing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HFT 4413 Technology Applications for Management</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

6. **Foreign Language Requirements** (0-8 hrs)

- State University System foreign language admission requirement. (Degree requires 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

800 hours of supervised work experience

**Total Semester Hours Required** 124 hours

**Community College Transfer Notes**
Articulated A.S. To B.S. Programs

PHOTOGRAPHY (B.S.)

A.S to B.S TRACK
College of Arts and Sciences
E-mail: santana@ucf.edu
Coordinator: Dr. M.C. Santana, 407-823-2838

Admission Requirements
Completion of an A.S. in Photography from Daytona Beach Community College or equivalent coursework.

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:

- Communication Foundations
- Cultural and Historical Foundations
- Mathematical Foundations
- Life Science
- Physical Science
- Computer Science or Statistics
- Social Foundations
- Artistic Foundations
- Physical Education

Total Semester Hours Required: 128 hrs
Related Programs: none
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 courses taken from the UCF ENT Department.
- 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.

2. Common Program Prerequisites

Included in A.S. or B.S. requirements.

Subject to change. Prerequisites have not been set by the state.

3. AS Required Courses:
(Completed as in the A.S. degree program in Photography, 2002-2003 catalog. Students graduating under different catalogs may substitute equivalent courses)

- CGS 1992 Introduction to Computer Applications
- GRA 1741 Design and Color Principles
- GRA 1800 Computer Graphics Fundamentals
- PGY 1115 Color Materials and Processes
- PGY 1201 Introduction to the Studio
- PGY 1265 Advanced Processes and Techniques
- PGY 1401 Fundamentals of Photography
- PGY 1402 Photographic Materials and Processes
- PGY 2006C History and Aesthetics of Photography
- PGY 2107 Large Format Photography
- PGY 2215 Studio Lighting

4. Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should consult with the Photography program coordinator before selecting this major, and at least annually thereafter.
- Upper-division electives, internship credit, and course substitutions must be approved by the program coordinator.
- Students must earn at least a "C" in each required course and maintain an overall GPA of at least 2.0

5. Upper Division Courses.

Students should consult with the Photography program coordinator before selecting this major, and at least annually thereafter.

- MAP 3401 Problem Analysis
- CET 4523 Applied Systems Analysis II
- CET 4429 Applied Database II
- CET 4583 Web Base Systems I
- CET 4584 Web Base Systems II
- CET 4663 Computer & Networks Security
- STA 5937 Data Mining I

6. Departmental Exit Requirements

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. 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.

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

UCF GPA

2.0 UCF GPA
Articulated A.S. To B.S. Programs

### 4. Upper Division Required Courses (36 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ARH 3710</td>
<td>History of Photography I</td>
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<tr>
<td>ARH 3711</td>
<td>History of Photography II</td>
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<td>ARH 3820</td>
<td>Visual Arts Administration Vitas</td>
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<td>COM 4014</td>
<td>Gender issues in Communication or</td>
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<td></td>
<td>Cultural Communication</td>
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<td>ENC 3561</td>
<td>Intercultural Communication</td>
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<td>ENC 3250</td>
<td>Professional Writing</td>
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<td>IDS 3687C</td>
<td>Digital Imagery</td>
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<td>PGP 3810C</td>
<td>Photojournalism I</td>
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<td>PGP 3840C</td>
<td>Photojournalism II</td>
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<td>PGP 4420C</td>
<td>Advanced Photography</td>
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<tr>
<td>PGP 4420C</td>
<td>Advanced Photography (repeat for credit)</td>
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<td>PGP 4440C</td>
<td>Special Problems in Photography</td>
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</tr>
<tr>
<td>PGP 4941</td>
<td>Internship</td>
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</tr>
</tbody>
</table>

### 5. Upper Division Restricted Electives (6 hrs)

Select from upper level courses, with program coordinator's approval. May be outside the department.

### 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
- 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 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)

### Total Semester Hours Required 127 hours

### Community College Transfer Notes

- Students transferring from any Florida public institution with an A.A. degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- 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 General Education and Common Program Prerequisites

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPC 2600*</td>
<td>May substitute SPC 1600 or SPC 1060</td>
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</tr>
<tr>
<td>ARH 1000*</td>
<td>May substitute ARH 2005 or ARH 2050</td>
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<tr>
<td>GRA 1741*</td>
<td>May substitute GRA 2111C</td>
<td></td>
</tr>
<tr>
<td>GRA 1800*</td>
<td>May substitute GRA 2140C</td>
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<tr>
<td>PGP 1401*</td>
<td>May substitute PGP 2401</td>
<td></td>
</tr>
</tbody>
</table>

### NURSING (B.S.N.)

#### 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

**Undergraduate Coordinator:** Linda Hennig

E-mail: lindah@mail.ucf.edu

Web Address: [http://www.cohpa.ucf.edu/nursing/](http://www.cohpa.ucf.edu/nursing/)

**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
- Current RN License in the state of Florida 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 grade of "C" (2.0) in prerequisite and major courses are required for admission to, 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.

#### 2. Common Program Prerequisites (21 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 2012</td>
<td>General Psychology**</td>
<td></td>
</tr>
<tr>
<td>SYG 2000</td>
<td>Sociology**</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MCB 2005C</td>
<td>Health Microbiology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHM 2032/L</td>
<td>General Chemistry and Lab**</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>Human Anatomy*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PCB 3700C</td>
<td>Human Physiology*</td>
<td>4 hrs</td>
</tr>
<tr>
<td>STA 2014C</td>
<td>Principles of Statistics**</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or 2023 Statistical Methods I</td>
<td></td>
</tr>
<tr>
<td>SOW 3104</td>
<td>Assessing Human Development or</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or DEP 2004 Developmental Psychology</td>
<td></td>
</tr>
<tr>
<td>HUN 3011</td>
<td>Human Nutrition</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

* 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.

#### 3. Core Requirements (55 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3809</td>
<td>Transitional Concepts in Nursing I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 3065</td>
<td>Health Assessment</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 3215</td>
<td>Nursing Research/Critical Inquiry</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4084</td>
<td>Transitional Concepts in Nursing II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4636</td>
<td>Community as Continuum of Care</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4636L</td>
<td>Clin Prac in Comm-Oriented Nursing</td>
<td>2 hrs</td>
</tr>
<tr>
<td>NUR 4827</td>
<td>Leadership and Management Principles</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4837</td>
<td>Health Care Issues, Policy, &amp; Econ</td>
<td>3 hrs</td>
</tr>
<tr>
<td>NUR 4945L</td>
<td>Directed Nursing Practice</td>
<td>4 hrs</td>
</tr>
<tr>
<td></td>
<td>Validation Credit</td>
<td>20 hrs</td>
</tr>
</tbody>
</table>

#### 4. Restricted Elective (3 hrs)
NUR XXXX  Any Nursing Elective  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 profiency 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, and the CLAST

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 3809:
- RN status or eligible to take NCLEX.
- Prior to NUR 3165: Complete NUR 3809 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
  - Complete foreign language admission requirement
  - Validation exams or current professional work as RN or pass the NCLEX within the last two years
  - Prior to NUR 445L and NUR 4636L: Complete NUR 4084
  - Prior to NUR 445L: Complete NUR 4636 and NUR 4636L or as a co-requisite with NUR 445L

RADIOLOGIC 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

HPA2 210, 407-823-2747

Undergraduate Program Director: Thomas Edwards
E-mail: tedwards@mail.ucf.edu
Web Address: http://www.cohealth.ucf.edu/health.pro/

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) from each state or province of residence during the past 24 months 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.

- Student must complete a Statewide Articulated A.S. in Radiography 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). (No TSD credit may be used for prerequisite courses.)
- 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 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>6 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select ENC 1102, SPC 1600</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. Cultural Historical Foundations</td>
<td>6 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select MAC 1105 (Completed at CC)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>0 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>STA 2023 (Core Requirement)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>3 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select ECO 2013 or ECO 2023 or POS 2041</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select PHY 2053C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select BSC 2010C</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Note: PHY 2053L must be taken as a corequisite to PHY 2053C

2. Common Program Prerequisites

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 1060C</td>
<td>Introduction to Computer Science</td>
<td>CC</td>
</tr>
<tr>
<td>PCB 3703C</td>
<td>Human Physiology*</td>
<td>CC</td>
</tr>
<tr>
<td>PHY 2053C</td>
<td>College Physics I</td>
<td>UCF GEP</td>
</tr>
<tr>
<td>PHY 2054C</td>
<td>College Physics II</td>
<td>UCF GEP</td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>Human Anatomy*</td>
<td>CC</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>College Algebra</td>
<td>CC</td>
</tr>
</tbody>
</table>

* See Transfer Notes

3. Core Requirements  (33 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTE 3111C</td>
<td>Introduction to Radiologic Sciences</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 3116</td>
<td>Radiographic Procedures I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 3418C</td>
<td>Principles of Radiographic Exposure I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 3804</td>
<td>Clinical Education</td>
<td>4 hrs</td>
</tr>
<tr>
<td>RTE 3513C</td>
<td>Radiographic Procedures II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 3572C</td>
<td>Principles of Radiographic Exposure II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 3684C</td>
<td>Physics of Image Production</td>
<td>2 hrs</td>
</tr>
<tr>
<td>HSC 3640</td>
<td>Health Law</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 3308</td>
<td>Medical Physics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 2023</td>
<td>Statistical Methods I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSC 4550</td>
<td>Pathophysiologic Mechanisms</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 4563</td>
<td>Special Radiographic Procedures</td>
<td>2 hrs</td>
</tr>
<tr>
<td>RTE 4782</td>
<td>Pathophysiology II</td>
<td>2 hrs</td>
</tr>
<tr>
<td>RTE 4814L</td>
<td>Clinical Education II</td>
<td>5 hrs</td>
</tr>
<tr>
<td>RTE 4824L</td>
<td>Clinical Education III</td>
<td>6 hrs</td>
</tr>
<tr>
<td>RTE 4573</td>
<td>Advanced Imaging Modalities</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 4834</td>
<td>Clinical Education IV</td>
<td>4 hrs</td>
</tr>
<tr>
<td>RTE 4385</td>
<td>Radiobiology</td>
<td>1 hr</td>
</tr>
<tr>
<td>RTE 4844</td>
<td>Clinical Education V</td>
<td>4 hrs</td>
</tr>
<tr>
<td>RTE 4473</td>
<td>Quality Improvement</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 4762</td>
<td>Anatomy for the Medical Imager</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 4206</td>
<td>Leadership in Radiologic Sciences</td>
<td>3 hrs</td>
</tr>
<tr>
<td>RTE 4854</td>
<td>Advanced Clinical Practicum</td>
<td>2 hrs</td>
</tr>
</tbody>
</table>
Articulated A.S. To B.S. Programs

4. Upper Division Restricted Electives:
   RTE 4209 Radiological Adm. Practice 2 hrs
   RTE 4903 Directed Study Radiologic Education 2 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 2.50 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.

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)

Total Semester Hours Required: (124 hours)
The total hours required for the A.S. to B.S. articulated Radiologic Sciences degree shall be no more than 132 credit hours.

Related Programs: Cardiopulmonary Sciences, Nursing, Health Services Administration

Related Minors: Health Services Administration

Transfer Notes:
Credit by Examination - 23 credit hours of credit by exam for clinical education courses will be awarded to Registered Technologists certified by the American Registry of Radiologic Technologists (ARRT) 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. If competency is not successfully demonstrated, additional clinical coursework may be required. 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.

Community College Equivalents:
Human Anatomy and Physiology I and II (BSC X085C and BSC X086C or BSC 2093C and BSC 2094C) 8 hrs
College Algebra (MAC 1105) 3 hrs
College Physics I (PHY 2053C) 4 hrs
College Physics II (PHY 2054C) 4 hrs
Introduction to Computer Science (CGS 1060C or any other Computer Science course) 3 hrs

SPORTS AND FITNESS (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 Education
Department of Teaching and Learning Principles
Coordinator: Debby Mitchell, 407-823-6598
E-mail: mitchell@mail.ucf.edu
http://pegasus.cc.ucf.edu/~sportfit/

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 2+2 program at Lake Sumter Community College.
- Have a minimum 2.0 overall GPA.
- Meet the University CLAST or CLAST alternative criteria.
- Pass four parts of the CLAST examination.
- Complete prerequisite courses.

Degree Requirements
- Students should consult with an advisor on a regular basis.
- 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 36 Hours
   A. Communication Foundations (9 hrs)
   ENC 1101 Composition I 3 hrs
   ENC 1102 Composition II 3 hrs
   SPC 1600 Fundamentals of Oral Comm 3 hrs
   B. Cultural-Historical Foundations (6 hrs)
   AMH 2020 U.S. History 1877-Present 3 hrs
   PHI 2010 Introduction to Philosophy 3 hrs
   D. Social Foundations (6 hrs)
   STA 1060C Basic Stat using Microsoft Excel or STA 2014C Principles of Statistics 3 hrs
   E. Mathematical Foundations (6 hrs)
   MGF 1106 Finite Mathematics 3 hrs
   PSY 2012 General Psychology 3 hrs
   E. Science Foundations (6 hrs)
   SPC 1600 Fundamentals of Oral Comm 3 hrs
   E. Science Foundations (6 hrs)
   SPC 1600 Fundamentals of Oral Comm 3 hrs
   F. Physical Education Common Courses (9 hrs)
   PET 4531 Biomechanics 3 hrs
   PET 4550 Fitness Assessment and Exercise 3 hrs
   PET 4401 Administration & Evaluation 3 hrs
   G. Physical Education Common Courses (9 hrs)
   PET 3137 Concepts and Practices in Sports and Fitness 3 hrs
   PET 3493 Sports and Ethics 3 hrs
   PET 3405 Public Relations in Sports and Fitness 3 hrs
   PET 3462 Fiscal and Facilities Issues in Sports and Fitness 3 hrs

2. Sports and Fitness Lower Division (7 hrs)
   Selected Electives (Prefixes: PEL, PEM, PEO, PET)

3. Lower Division Electives (7 Hours)

4. Advanced Courses (18 Hours)

5. Fitness & Sports Core (18 Hours)
The University course numbering system is as follows:

### Classification of Courses
The University course numbering system is as follows:

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>0-0999</td>
<td>Subcollegiate level and not counted in meeting degree requirements.</td>
<td></td>
</tr>
<tr>
<td>1000-2999</td>
<td>Freshman and sophomore level courses and are designed primarily for these students.</td>
<td></td>
</tr>
<tr>
<td>3000-4999</td>
<td>Junior and senior level courses (upper-division) and are designed primarily for these and other advanced students. When approved for inclusion in an individual program of graduate study by a supervisory committee approved by the Office of Graduate Studies, selected 4000-4999 courses may serve the needs of individual graduate students.</td>
<td></td>
</tr>
<tr>
<td>5000-5999</td>
<td>Beginning graduate and advanced undergraduate level courses - open to graduate students and those seniors who receive approval of the appropriate Dean(s).</td>
<td></td>
</tr>
</tbody>
</table>

### 6. Specialization (12 Hours)
Select One:

**Coaching**
- PET 3765 Coaching Theory 3 hrs
- PET 4763 Coaching Methods and Principles 3 hrs
- **Coaching Specific (choose one)** (3 hrs)
  - PEO 2624 Coaching Basketball
  - PEO 3324 Coaching Volleyball
  - PEO 3644 Coaching Football
- PET 4625 Human Injuries - Mechanisms and Prevention 3 hrs

Students selecting the Coaching Specialization must register and complete the State of Florida Coaching Certification Process or an equivalent professional certifying body.

**Fitness**
- PET 3361 Nutrition for Sports and Fitness 3 hrs
- PET 3776 Fitness and Conditioning Concepts 3 hrs
- PET 4083C Practical Fitness Training 3 hrs
- PET 4625 Human Injuries - Mechanisms and Prevention 3 hrs

Students selecting the Fitness Specialization must register for a Professional Fitness Certification through the American Council on Exercise (ACE) or an equivalent professional certifying body.

### 7. Upper Division Elective (3 hours)
Approved by advisor.

### 8. Sports & Fitness Practicums (18 Hours)
- PET 4925 Sports and Fitness Practicum I 6 Hours
- PET 4926 Sports and Fitness Practicum II 12 Hours

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 opportunities through associations with partners in the Clermont and greater Orlando areas. Students will not be limited to these organizations. 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.

### 9. Foreign Language (0-8 hours)
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. 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.

### Total Semester Hours Required (120 hours)

**Articulated A.S. To B.S. Programs**

**COMMON COURSE NUMBERING SYSTEM**

**Classification of Courses**
The University course numbering system is as follows:

- **0-0999** Subcollegiate 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) and are designed primarily for these and other advanced students. When approved for inclusion in an individual program of graduate study by a supervisory committee approved by the Office of Graduate Studies, selected 4000-4999 courses may serve the needs of individual graduate students.
- **5000-5999** Beginning graduate and advanced undergraduate level courses - open to graduate students and those seniors who receive approval of the appropriate Dean(s).
- **6000-6999** Courses 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.)
- **7000-7999** Doctoral-level courses.

**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 twenty-six 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 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 "course equivalency profiles."

**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 31 different post-secondary 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 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 which have not been designated as equivalent.

**Example of Course Identifier**

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Level Code (first digit)</th>
<th>Century Digit (second digit)</th>
<th>Decade Digit (third digit)</th>
<th>Unit Digit (fourth digit)</th>
<th>Lab Code</th>
</tr>
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<tbody>
<tr>
<td>SYG</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
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<tr>
<td>Sociology, General</td>
<td>Freshman level level at this institution</td>
<td>Entry-level General Sociology</td>
<td>Survey Course</td>
<td>Social Problems</td>
<td>No laboratory component in this course</td>
</tr>
</tbody>
</table>

**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**

State Board of Education Rule 6A-10.024(19), Florida Administrative Code, reads:

"When a student 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 common course designation and numbering system, the receiving institution shall award credit for courses satisfactorily completed at the previous participating institutions when the courses are judged by the appropriate common course designation and numbering system faculty task forces 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 award of credit may be limited to courses that are entered in the course numbering system. Credits so awarded 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:

A. Courses in the _900-_999 series (e.g., ART 2905)
B. Internships, practica, clinical experiences, and study abroad courses
C. Performance or studio courses in Art, Dance, Theatre, and Music
D. Skills courses in Criminal Justice
E. Graduate courses
F. Courses not offered by the receiving institution

College preparatory and vocational preparatory courses 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 R. Does in Academic Services, MH 210, Phone 407-823-2691 or the Florida Department of Education, K-16 Articulation, 401 Turlington Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested from (850) 488-6402 or SunCom 278-6402.
<table>
<thead>
<tr>
<th>Prefix</th>
<th>Prefix Title</th>
<th>Prefix</th>
<th>Prefix Title</th>
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<tbody>
<tr>
<td>ABE</td>
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<td>CHW</td>
<td>Chinese Literature (Writings)</td>
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<td>Arabic in Translation and/or Translations Skills</td>
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<td>ACB</td>
<td>Accounting: General</td>
<td>CJB</td>
<td>College Level Application in Criminal Justice</td>
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<td>ACO</td>
<td>Accounting: Occupational/Technical Variable Paced</td>
<td>CJC</td>
<td>Corrections</td>
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<td>ACR</td>
<td>HVACR: Heating/Ventilation/AC/Refrigeration: Tech/Trades</td>
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<td>ADE</td>
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<td>CJK</td>
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<td>Law and Process</td>
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<td>Spanish Literature in Translation and/or Translation Skills</td>
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<td>Sub-Sahara African Languages</td>
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<td>Sub-Sahara African Literature in Translation</td>
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<td>Surveying &amp; Related Areas</td>
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<td>TAX</td>
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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-collegiate 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.

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 4121C

ENV 4121C 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 & Sciences, BA = Business Administration, ED = Education, ECS = Engineering and Computer Science, HM = Hospitality Management, and HPA = Health and Public Affairs. Department indicators are listed below by college:

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<tr>
<th>College/ School Department</th>
<th>Abbreviation</th>
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<td>AS</td>
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<td>Arts &amp; Sciences (CAS)</td>
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<td>Criminal Justice &amp; Legal Studies (Cjls)</td>
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<td>Molecular &amp; Microbiology (M&amp;M)</td>
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<td>Nursing (Nurs)</td>
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<td>Public Administration (Pub)</td>
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<td>Social Work (Sow)</td>
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2003-2004 Undergraduate Catalog
UCF Courses and Descriptions

Finding a Course in this List
The UCF courses in this section are listed alphabetically by prefix. Consult the “Common Course Numbering System” section of the Undergraduate Catalog for additional information.

Availability of Courses
The University does not offer all of the courses listed in this Undergraduate Catalog each academic year, academic semester, or term. Consult the online Class Schedule at https://connect.ucf.edu for those courses offered each semester/term.


ACG 2021H BA-ACCT 3(3,0) Honors Principles of Financial Accounting: PR: MAC 1105, participation in the honors program. Same as ACG 2021 with honors level content.

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.

ACG 3101 BA-ACCT 3(3,1) Intermediate Financial Accounting I: PR: Junior standing and MAC 1105, ECO 2013 and ECO 2023; and ACG 2071 or its equivalent with a grade of “C” in the accounting course. Review of the accounting cycle, financial statement preparation and the framework of accounting theory. An in-depth study of current assets, fixed assets, and intangible assets.

ACG 3111 BA-ACCT 3(3,0) Intermediate Financial Accounting II: PR: ACG 3101 with a grade of “C” or better. Accounting theory and practice for current and long-term liabilities, stockholders’ equity earning per share, investments, revenue recognition, and selected current topics.

ACG 3131 BA-ACCT 3(3,0) Financial Accounting Concepts and Analysis: PR: Junior Standing 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.

ACG 3141 BA-ACCT 3(3,0) Intermediate Financial Accounting: PR: ACG 3XXX (Financial Accounting Concepts and Analysis) with a grade of “C” (2.0) or better. Accounting theory and practice related to preparation, and interpretation of external financial statements.

ACG 3301 BA-ACCT 3(3,0) Management Accounting: PR: C.I. and Junior standing. To thoroughly familiarize the student with the various uses of accounting information for planning and control.

ACG 3361 BA-ACCT 3(3,0) Cost Accounting I: PR: Junior standing, 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.

ACG 3501 BA-ACCT 3(3,0) Financial Accounting for Governmental and Nonprofit Organizations: PR: 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.


ACG 4401 BA-ACCT 3(3,1) Accounting Information Systems: PR: ACG 3101 and CGS 2100C, with a grade of “C” or better. An introduction to manual and computer-based accounting information systems.

ACG 4651 BA-ACCT 3(3,0) Auditing: PR: ACG 3111 and ACG 4401 with a grade of “C” or better. The standards, practices, and procedures followed in the audit function.

ACG 4671 BA-ACCT 3(3,0) Internal Auditing: PR: ACG 3XXX (Financial Accounting Concepts & Analysis) or ACG 3361. Theory and practice of internal auditing and the use of internal auditing in organizational control.

ACG 5005 BA-ACCT 1.5(1.5,0) Accounting Foundations: PR: Acceptance to Graduate Study. Accounting and reporting from an investment and managerial decision making perspective.

ACG 5205 BA-ACCT 3(3,0) Advanced Financial Accounting Topics: PR: ACG 3111 with a grade of “C” or better. Accounting for business combinations and the preparation of consolidated financial statements. Accounting issues related to foreign operations. Also includes a study of current reporting topics.

ACG 5206 BA-ACCT 3(3,0) Seminar in Financial Reporting: PR: Acceptance for graduate study and all accounting foundation courses. An in-depth study of advanced financial reports.

ACG 5346 BA-ACCT 3(3,0) Advanced Managerial Accounting: PR: 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.


ACG 5506 BA-ACCT 3(3,0) Accounting for Governmental and Non-Business Organizations: PR: ACG 3501, ACG 3111 and acceptance for graduate study. Study of problems and methods of applying managerial accounting concepts in a nonprofit environment.

ACG 5517 BA-ACCT 3(3,0) Financial Accounting and Auditing for Governmental and Nonprofit Organizations: PR: 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.

ACG 5625 BA-ACCT 3(3,0) Auditing and EDP: PR: Acceptance for graduate study, ACG 3111, ACG 4401, and ACG 4651. An examination of auditing procedures followed when a company uses a computer to process financial records.

ADE 3432 ED-TLP 3(3,0) Teaching Adult Learners: Effective teaching techniques including technology, distance instruction, and support systems appropriate to the special needs of adult learners.

ADV 3000 AS-COMM 3(3,0) Principles of Advertising: Overview of the field of advertising: purposes, techniques, the role of agencies, advertisers and the media.

ADV 4101 AS-COMM 3(3,0) Advertising Copywriting: PR: ADV 3000 or C.I. and Grammar Proficiency Exam. Advertising copywriting teaches the development of creative strategies for advertising and emphasizes writing for various ad media.

ADV 4103 AS-COMM 3(3,0) Radio-Television Advertising: PR: Majors only, ADV 3000 or C.I. Radio and television advertising sales, including interpretation of rate structures, program audiences, and creative approaches to sponsor needs.

AFA 2102 AS-AAS 3(3,0) Introductory Perspectives on African American Studies: Multidisciplinary perspectives are used to explore key issues and basic methodologies in African American Studies, featuring presentations by representative faculty from various disciplines.


AFA 3955 AS-AAS 6(6,0) Study Abroad in Eastern Caribbean: PR: AFA 4XXX (Caribbean Experience) or Junior standing. Interdisciplinary study abroad program focuses on the arts and humanities of African diasporic cultures in the Eastern Caribbean.


AFA 5930 AS-AAS 3(3,0) Topics in African American Studies: PR: graduate 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.

AFH 3100 AS-AAS 3(3,0) African History to 1870: PR: C.I. Sub-Saharan African institutions and peoples from the earliest time until 1870.
Standing or C.I. Reading and class discussion on presentations of New World slavery in the past and the AML 3613 AS-ENG 3(3,0) diverse woman-centered and feminist perspectives.

Contemporary American Women's Fiction American writers from Twain to present.

American Literature I AML 3051 AS-ENG 3(3,0) American writers from beginning through Whitman.

AMH 5391 AS-HIST 3(3,0) Colloquium in U.S. Cultural History: PR: Senior Standing or C.I. Students will read and discuss a common or diverse body of the significant literature in the field.

Standing or C.I. A consideration of the history and cur-

AMH 5395 AS-HIST 3(3,0) Colloquium in U.S. Diplomatic History: PR: Senior Standing or C.I. Reading and class discussion on selected topics of the Civil War and Reconstruction era.

AMH 5421 AS-HIST 3(3,0) Colloquium in American South: PR: Senior Standing or C.I. Intensive reading and class discussion on selected topics of Southern history from colonial origins to the present.

AMH 5446 AS-HIST 3(3,0) Colloquium in U.S. Frontier: PR: Senior Standing or C.I. Reading and class discussion of the literature on selected topics of frontier history.

AMH 5505 AS-HIST 3(3,0) Colloquium: Women in American History: Intensive reading and class discussion on selected topics of Women in American History from colonial time to the present.

AMH 5937 AS-HIST 3(3,0) AP American History: Participants will enhance their knowledge of weighing evidence and interpretations presented in historical scholarship with respect to the social, cultural, intellectual, economic, and political-diplomatic history of the U.S.

AML 3031 AS-ENG 3(3,0) American Literature I: PR: ENC 1102. Major American writers from beginning through Whitman.

AML 3051 AS-ENG 3(3,0) American Literature II: PR: ENC 1102. Major American writers from Twain to present.


AML 3613 AS-ENG 3(3,0) Narratives of Slavery: PR: ENC 1102. Literary representations of New World slavery in the past and the present.

AML 3614 AS-ENG 3(3,0) Topics in African-American Literature: PR: ENC 1102. Literature by and about African-American culture in the United States. May be repeated for credit.

AML 3615 AS-ENG 3(3,0) Harlem, Haiti, and Havana: PR: ENC 1102. A comparative approach to African and Caribbean writers, focusing on literary styles, historical contexts, and themes such as nationalism, popular music, and folk religion.

AML 3640 AS-ENG 3(3,0) Native American Literature: PR: ENC 1101 and ENC 1102. Native American genres, including traditional oral narratives, ritual and contemporary poetry, autobiography, and the novel.


AML 4265 AS-ENG 3(3,0) Florida Writers: PR: ENC 1102 and ENG 3014. This course will examine writers who have lived and written about Florida, such as Hemingway, Rawlings, Hurston, and Stevens.

AML 4321 AS-ENG 3(3,0) Modern American Literature: PR: ENC 1102 and ENG 3014. Major writers of modern American literature.

AML 5076 AS-ENG 3(3,0) American Literature: Colonial to Contemporary: PR: Graduate standing or C.I. Intended for graduate students and future teachers of America Literature, this course surveys texts produced in America from the colonial period to the present.

AML 5156 AS-ENG 3(3,0) Modern American Poetry: 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.

AML 5170 AS-SOC/AN 3(3,0) Archaeological Method and Theory: PR: Graduate standing or C.I. Examination of the history and current state of the art of the theory and methods used by archaeologists to interpret past behavior.

AML 5178 AS-SOC/AN 3(3,0) Field Research in Maya Studies: PR: ANG 6168 or C.I. Practical application of method and theory during primary in-field research in the Maya area.

AML 5185 AS-SOC/AN 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.

AML 5187 AS-SOC/AN 3(3,0) Maya Hieroglyphs: PR: ANG 6168 or C.I. The study of Maya writing, the translation of Maya hieroglyphs, and the significance of translations to reconstructions of ancient Maya culture.
basic data collection, skeletal analysis, and comparative study of mortuary ritual - both ancient and modern.

ANT 3212 AS-SOC/AN 3(3,0) 
Peoples of the World: A comparative study of religion, family, politics, philosophy, and other elements of sociocultural organization of pre-literate societies.

ANT 3241 AS-SOC/AN 3(3,0) 
Magic, Ritual, and Belief: Patterns in religious behavior in various societies, with primary emphasis on myth, rite, taboo, and festival social phenomena.

ANT 3245 AS-SOC/AN 3(3,0) 
Native American Religions: PR: ANT 2000 or ANT 2410 or C.I. The religious beliefs of native New World peoples.

ANT 3262 AS-SOC/AN 3(3,0) 

ANT 3273 AS-SOC/AN 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.

ANT 3302 AS-SOC/AN 3(3,0) 
Sex, Gender and Culture: The traditional and changing roles of women and men viewed in a cross-cultural perspective.

ANT 3311 AS-SOC/AN 3(3,0) 
Indians of the Southeastern United States: A study of the social and cultural history of the Indians of the Southeast.

ANT 3312 AS-SOC/AN 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.

ANT 3313 AS-SOC/AN 3(3,0) 

ANT 3314 AS-SOC/AN 3(3,0) 
Indians of the Northeast Woodlands: PR: ANT 2003 or ANT 2410 or other lower-level social science course. The prehistory, history and culture of Native Americans of the North American northeast.

ANT 3316 AS-SOC/AN 3(3,0) 

ANT 3318 AS-SOC/AN 3(3,0) 
Indians of the Northwest Coast: PR: ANT 2003 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.

ANT 3319 AS-SOC/AN 3(3,0) 
Anthropology of Diaspora: PR: ANT 2000 or ANT 2410 or C.I. Deeply comparative study of sociocultural constructions of race and the processes of acculturation and resistance in African Diasporas of the New and Old Worlds.

ANT 3320 AS-SOC/AN 3(3,0) 
Indians of the Southwest: PR: ANT 2000. Native American culture types of the southwest: Navajo, Pueblo (Zuni, Hopi, Teva), Apache (Lipan, Mescalero), and Desert Tradition (Pima, Papago, Havasupai).

ANT 3322 AS-SOC/AN 3(3,0) 
People and Cultures of Latin America: An overview of the history and society of the peoples of Latin America, emphasizing patterns of subsistence and social organization.
ARA 2200 AS-LANG 3(3,1)
Intermediate Arabic Language and Civilization I: PR: ARA 1121 or C.I. Development of language skills and cultural knowledge at the intermediate level.

ARE 2011 ED-TLP 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.

ARE 3944 AS-ART 3(2,3)
Community Arts Practicum: A supervised experience for students to facilitate art programming in a variety of community settings.

ARE 4262 AS-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.

ARE 4313 ED-TLP 3(2,1)
Art in the Elementary School: Basic principles, purposes, scope and sequence: organization for instruction; evaluation of activities; selected art experiences.

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.

ARE 4352 ED-TLP 3(2,1)
Teaching Art in the Secondary School: PR: ARE 4143, 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.

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, iconography, and aesthetics for specific educational settings.

ARH 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 productive qualities. May be repeated for credit.

ARR 4945 AS-ART 12(0,12)
Community Arts Internship: An on-site in-depth experience for community arts majors with a concentration in administration, education, or therapeutic experience.

ARE 5251 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.

ARE 5255 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.

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.

ARE 5648 ED-TLP 3(3,0)
Contemporary Visual Arts Education: PR: ARE 4443 or C.I. Continued study of current programs and innovations in public school Visual Arts Programs.

ARH 2005 AS-ART 3(3,0)
Survey of Non-Western Art: An interdisciplinary examination of the history of major visual arts in various non-Western cultures.

ARH 2050 AS-ART 3(3,0)
The History of Art I: Painting, sculpture and architecture from the Prehistoric Era through the Renaissance period.

ARH 2050H AS-ART 3(3,0)
The History of Art I: Survey Art History to be offered for the Honors Program. May be repeated for credit.

ARH 2051 AS-ART 3(3,0)
The History of Art II: PR: ARH 2050. Painting, sculpture and architecture from the Baroque through the 20th century.

ARH 2051H AS-ART 3(3,0)
Honors History of Art II: PR: ARH 2050, permission of Honors. Painting, sculpture and architecture from the Baroque through the 20th century, with honors-level content.

ARH 3421 AS-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.

ARH 3456 AS-ART 3(3,0)
Art in the Last 25 Years: PR: ARH 2050 and ARH 2051 or C.I. A seminar for upper-level art students to examine current trends in the visual arts.

ARH 3520 AS-ART 3(3,0)
African Art: Teaching the continuatives between African, Afro-Caribbean and Afro-American Arts.

ARH 3522H AS-ART 3(3,0)

ARH 3570 AS-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.

ARH 3670 AS-ART 3(3,0)
20th Century Latin American Art: PR: ARH 2050 and ARH 2051 or C.I. Art of the modern era (1820 to 1990) in the Caribbean and South America: issues and characteristics of art as they reflect the cultural evolution of Latin America.

ARH 3683 AS-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.

ARH 3710 AS-ART 3(3,0)
History of Photography I: PR: ARH 2050 and ARH 2051. History of photography from its earliest inception to 1900. The content of this course is designed for art majors.

ARH 3711 AS-ART 3(3,0)
History of Photography II: History of still photography from the early 20th century to the present. The content of this course is designed for art majors.

ARH 3720 AS-ART 3(3,0)
History of Prints: PR: ARH 2050 and ARH 2051 or C.I. History of printmaking in the Western world, surveying works by the "great printmakers."

ARH 3728 AS-ART 3(3,0)
American Art: PR: ARH 2050 and ARH 2051 or C.I. Surveys American Art to 1900. Leading artists are identified and representative examples of their work are discussed within the context of major themes, patterns, sources.

ARH 3802 AS-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.

ARH 3820 AS-ART 3(3,0)
Visual Arts Administration Vitas: Grant applications; Personnel; copyright laws; museum practices, etc.

ARH 4170 AS-ART 3(3,0)
Greek & Roman Art: PR: ARH 2050 or HUM 341L 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.

ARH 4200 AS-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.

ARH 4310 AS-ART 3(3,0)
Italian Renaissance Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of Italian Art and Architecture from 1300 to 1500.

ARH 4350 AS-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.

ARH 4440 AS-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.

ARH 4450 AS-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.

ARH 4458 AS-ART 3(3,0)
Women and Art in the 20th Century America: A course on women artists, feminist aesthetics, and women’s artistic cultures, focusing on 20th century America.

ARH 4545 AS-ART 3(3,0)
Art of India: A course on the art of India, with special emphasis on the art of the Gupta, Pajpat, and Muslim periods.

ARH 4655 AS-ART 3(3,0)
Meso American Art: A survey of the art of Mexico and Central America, from the Pre-Colombia, through the Spanish Colonial, to the 20th century.

ARH 4800 AS-ART 3(3,0)

ARH 4892 AS-ART 3(3,0)
Women in Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of the art 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.

ARH 5478 AS-ART 3(3,0)
Contemporary Women Artists: PR: 6 credits of art courses or C.I. An in-depth study on contemporary women artists from a feminist perspective.

ARH 5933 AS-ART 3(3,0)
Latin-American) arts. Themes include signs and scripts, charts, and textiles.

ART 5934 AS-ART 3(3,0)
Orlando Art Exhibition: PR: Graduate Standing or C.I. A partnership class which focuses on the study of an Art Exhibition in an Orlando art or history museum. May be repeated for credit.

ART 2130C AS-ART 3(3,0)
Fibers & Fabrics: Design and production training in surface design, floor loom weaving and fiber sculpture.

ART 2160C ED-TLP 3(2,3)

ART 2201C AS-ART 3(2,4)
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.

ART 2203C AS-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.

ART 2300C AS-ART 3(2,4)
Drawing Fundamentals I: PR: ART 2820 or C.I. Priority given to students whose major requires this course. Drawing as a means of formal organization. Introduction to problems in drawing methods and media. Emphasis on description techniques.

ART 2301C AS-ART 3(2,4)
Drawing Fundamentals II: PR: ART 2300C and ART 2820 or C.I. Priority given to students whose major requires this course. Continuation of ART 2300C.

ART 2394 AS-ART 3(3,0)
Drawing: Computer as a Medium: Object drawing, using the computer and drawing styles as a medium.

ART 2400C AS-ART 3(2,4)
Beginning Printing: Basic elements and techniques of printmaking covered. Relief, intaglio, and lithography. Assignments include practical application of printmaking as drawing tool.

ART 2500C AS-ART 3(2,4)
Beginning Painting: PR: ART 2300C, ART 2201C, or C.I. Methods and materials of the painter. Introduction to the problems in painting.

ART 2600C AS-ART 3(2,4)
Introduction to Computer Art: PR: ART 2820 or C.I. Priority given to students whose major requires this course. The principles underlying the generation and display of graphical pictures by computer. Topics include graphical software packages and graphics systems.

ART 2701C AS-ART 3(2,4)
Sculpture: PR: Three semester hours in three-dimensional work, ART 2201C, ART 2203C, ART 2300C, ART 2301C.

ART 2754C AS-ART 3(2,4)
Beginning Ceramics: PR: ART 2201C or C.I. Basic concepts of ceramic design, experience in processes of forming, decorating, glazing, and firing pottery.

ART 2820 AS-ART 3(3,0)
Art as Interface: An overview of art department specializations, and selected historical and theoretical information influencing the art curriculum. Examination of aesthetic characteristics shared by the various disciplines and how knowledge of these data is used by the profession to share information with the community.

ART 3161 AS-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, and art history.

ART 3255C AS-ART 3(2,4)

ART 3332C AS-ART 3(2,4)

ART 3401C AS-ART 3(2,4)
Screenprinting: PR: ART 2201C, ART 2300C, ART 2400C. Techniques of waterbase screenprinting, including digital/photo processes and practical applications of screenprinting as means for image making.

ART 3504C AS-ART 3(2,4)

ART 4256C AS-ART 3(2,4)
Advanced Illustration: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3255C, 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.

ART 4320C AS-ART 3(2,4)
Advanced Drawing: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3255C. May be repeated for credit.

ART 4402C AS-ART 3(2,4)
Advanced Printmaking: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3504C, and a satisfactory portfolio review or C.I. May be repeated for credit.

ART 4505C AS-ART 3(2,4)
Advanced Painting: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Advanced problems in painting. May be repeated for credit.

ART 4610C AS-ART 3(2,4)

ART 4634C AS-ART 3(3,1)
Web Art: PR: ART 2820 or C.I. The Web as a medium for art.

ART 4710C AS-ART 3(2,4)
Advanced Sculpture: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2701C, and a satisfactory portfolio review or C.I. May be repeated for credit.

ART 4764C AS-ART 3(2,4)
Ceramic Handbuilding II: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2754C, and a satisfactory portfolio review or C.I. Technical skills in manipulating form, function, volume, color and surface texture.

ART 4789C AS-ART 3(2,4)

ART 4783C AS-ART 3(2,4)
Advanced Ceramics: 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.

ART 4786C AS-ART 3(2,4)

ART 4935 AS-ART 3(3,1)
BFA Exhibit Seminar: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. Must complete Studio course for BFA, and a satisfactory portfolio review or C.I. This course is designed to prepare B.F.A. students for B.F.A. exhibition.

ART 4945 AS-ART 6(0,6)
C.R.E.A.T. Project: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, FIL 4280C, 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.

ART 4971 AS-ART VAR
Senior Thesis: PR: Senior Standing, ART major, C.I. A
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BSC 2011C AS-BIOL 4(3,3) Biological Diversity: PR: BSC 2010C or C.I. Introduction to botany and zoology. Structure, function, and representative groups of plants and animals. Open to juniors and students whose major requires this specific course.


BSC 3404C HPA-M&M 4(3,4) Quantitative Biological Methods: PR: BSC 2010C, MCB 3020C, CHM 2046. A laboratory course which presents modern methods and instrumentation used in quantitative biological experimentation.

BSC 3404H HPA-M&M 4(3,4) Quantitative Biological Methods-Honors: PR: Consent of Honors, BSC 2010C, MCB 3020C, CHM 2046. A laboratory course which presents the concepts, modern methods, techniques and instrumentation used in quantitative biological and molecular biological experimentation. Honors level content.

BSC 3949 AS-BIOL 0(0,8) Cooperative Education in Biology: PR: Departmental permission required before registering. Cooperative education experience in biology. May be repeated. Graded S/U.

BSC 4101 AS-BIOL 3(3,0) History of Biology: PR: BSC 2010C, BSC 2011C and 8 hours in biology or C.I. People and events involved in the development of major biological concepts and disciplines. Suitable for majors and non-majors.


BSC 4422L AS-BIOL 1-4(0,3-12) Biology Laboratory Techniques: PR: PCB 3034, CHM 2210, or C.I. Individual and small group instruction in current laboratory techniques beyond the scope of typical Biology laboratories. May be repeated for credit, up to a maximum of 4 credits total. Graded S/U.

BSC 5408L AS-BIOL 3(0,9) Advanced Biology Laboratory Techniques: PR: BS degree; C.I. This course will emphasize those biological techniques and resources necessary for students about to begin thesis research. Individual and small group instruction in current laboratory techniques, literature searches, and hands-on practice of techniques will be stressed. May not be repeated for credit.

BSC 5817 AS-BIOL 3(3,0) Biology for AP Teachers: Participants will perform and evaluate the 12 required labs, analyze the design and grading of the Exam, and develop a representative program.

BTE 4410 ED-TLP 3(3,0) Course Construction: Business Education: PR: ETV 3365 or C.I. An overview and examination of business curriculum and methodology integrated into the vocational frameworks. Planning and preparation of materials, managing the laboratory and involvement of vocational student organizations.

BUL 3130H BA-ACCT 3(3,0) Legal and Ethical Environment of Business: PR: Junior standing. An analysis of the law as a dynamic social and political institution in the business environment, including contract law, torts, and ethical considerations.

BUL 3130H BA-ACCT 3(3,0) Legal & Ethical Environment of Business - Honors: PR: Junior standing. Permission of Honors Program. Analysis of the law as a dynamic social and political institution in the business environment, including ethical considerations with honors level content.

BUL 3320 BA-ACCT 3(3,0) Business Law I: PR: Junior Standing. Introduction to law, a social and political institution in the business environment. Analysis of statutory and common law principles involved in the formation, operation, and termination of recognized business organizations. Analysis of the effects of government regulation on business activity, including anti-trust and securities regulation.

BUL 3321 BA-ACCT 3(3,0) Business Law II: PR: BUL 3320. Coverage of the Uniform Commercial Code; the law of commercial transactions, including sales, commercial paper, secured transactions and suretyship, contracts, wills and trusts, and property law.


BUL 5125 BA-ACCT 3(3,0) Legal and Social Environment of Business: PR: Admission to graduate program. Analysis of the legal and ethical environment of business, the effects of legislation and regulation on business activity, and the role of law and ethics in the decision-making process.

BUL 5332 BA-ACCT 3(3,0) Advanced Business Law Topics: PR: BUL 3320. Advanced business law topics including coverage of the Uniform Commercial Code, torts, commercial paper, and secured transactions.

CAP 4020 ECS-EECS 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.

CAP 4021 ECS-EECS 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.

CAP 4453 ECS-EECS 3(3,0) Robot Vision: PR: COP 3530C and MAC 2312, or C.I. Pin hole camera and eye, perspective and orthographic projections, the processing of edges, regions, motion, shading, texture, object, robot arm usage.


CAP 5015 ECS-EECS 3(3,0) Multimedia Compression on the Internet: PR: seniors and graduate students with interest in internet technology. Multimedia data; internet technology; entropy; compression methods; lossy compression; vector quantization; transform coding; wavelet video compression; model based compression.

CAP 5415 ECS-EECS 3(3,0) Computer Vision: PR: COP 3530C. Image formation, binary vision, region growing and edge detection, shape representation, dynamic scene analysis, texture, stereo and range images, and knowledge representation.
and the criminal justice system.

CCE 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.

CCE 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.

CCE 3058 HPA-CJ/LS 3(3,0)
Origins of Criminal Justice: PR: CCJ 3024. Study of criminal justice system evolution. Focus on developments contributing to the institutions and practices of the American criminal justice system.

CCE 3450 HPA-CJ/LS 3(3,0)
The Criminal Justice Manager: PR: CCJ 3024 or C.I. Elements of first-line supervision and executive development. Administrative leadership: its nature, methods, and traits. Recent theories and research in leadership.

CCE 3451 HPA-CJ/LS 3(3,0)
Justice System Technology: PR: CCJ 3024 or C.I. Examination of the relevance of scientific and technological developments to justice systems and their applicability to the operations and management of the systems.

CCE 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.

CCE 3520H HPA-CJ/LS 3(3,0)
Honors Juvenile Offenders: An Integrative Perspective: PR: C.I. To provide students with an integrative understanding of the social, psychological, and legal dynamics evident in processing juvenile offenders.

CCE 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.

CCE 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.

CCE 4076 HPA-CJ/LS 3(3,0)
Crime Analysis II: PR: CJE 4654, CJE 4663. Designed to provide advanced data analysis skills that will enable a crime analysis sophisticated methodologies to crime analysis.

CCE 4100 HPA-CJ/LS 3(3,0)
Criminal Investigation: PR: CJE 4014. Course acquaints students with basic Procedures used in Criminal Investigations, purpose of investigations, and ingredients for successful investigations.

CCE 4195 HPA-CJ/LS 3(3,0)
Interviews & Interrogations in CJ: PR: CCJ 3024 (Criminal Justice System) and CJ Major or C.I. The criminal justice interview process including history of criminal justice interviews, the use of Miranda, non-verbal listening, and the rules of testimonial evidence.

CCE 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.

CCE 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.

CCE 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 continued management of various criminal justice agencies, institutions and court systems.

CCE 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.

CCE 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.

CCE 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).

CCE 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.

CCE 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.

CCE 4644 HPA-CJ/LS 3(3,0)

CCE 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.

CCE 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.
CET 4138 ECS-ENT 4(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.

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.


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.

CET 4429 ECS-ENT 3(3,0) Applied Database II: PR: CET 4427. Continuation of CET 4427. Study of hierarchical database system. Programming project is required. May be repeated for credit.

CET 4469C ECS-ENT 3(2,2) Applied Infobases: PR: ETI 3551, CET 3144C, CET 3353C or equivalent, C.I. Using computer application packages to create, use, and index both personal and technical infobases. Hardware and software optimization. Enhancement add-ins. Intranet applications.

CET 4483 ECS-ENT 3(3,0) Intro to Local Area Network Technology: PR: EET 3065C 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.

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.

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.

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

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

CHM 1020 AS-CHEM 3(3,0)
Concepts in Chemistry: PR: MAC 1105 or MGF 1106. Concepts will be examined to provide insight into the significant role that chemistry plays in our culture. Intended as a general education course.

CHM 1032 AS-CHEM 3(3,0)
General Chemistry II: PR: MAC 1105, MGF 1106 or equivalent. An introductory study of the fundamental concepts of chemistry, primarily oriented toward COH and PA majors.

CHM 1032L AS-CHEM 1(0,3)
General Chemistry Laboratory: CR: CHM 1032. An introductory study of physical and chemical properties of elements and compounds.

CHM 2045C AS-CHEM 4(3,1)
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.

CHM 2045H AS-CHEM 4(3,3)
Honors Chemistry Fundamentals I: PR: High school chemistry and admission to University Honors Program. Same as CHM 2045C with honors-level content.

CHM 2046 AS-CHEM 3(3,0)
Chemistry Fundamentals II: PR: CHM 2045C. Continuation of Inorganic Chemistry.

CHM 2046H AS-CHEM 4(3,3)
Honors Chemistry Fundamentals II: PR: CHM 2045C Honors. Same as CHM 2046 with honors-level content.

CHM 2046L AS-CHEM 1(0,3)
Chemistry Fundamentals Laboratory: PR: CHM 1032 or CR: CHM 2046. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry.

CHM 2205 AS-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.

CHM 2210 AS-CHEM 3(3,0)

CHM 2211 AS-CHEM 3(3,0)

CHM 2211L AS-CHEM 2(0,6)
Organic Laboratory Techniques I: PR: CHM 2210. An introduction to the laboratory techniques of organic chemistry, including the preparation, reaction, and analysis of organic compounds.

CHM 3120C AS-CHEM 5(3,6)
Analytical Chemistry: PR: CHM 2046, 2046L. Laboratory practices of classical and instrumental analysis. Choice of preferred analytical methods and techniques is emphasized through applications involving both inorganic and organic systems.

CHM 3212L AS-CHEM 2(0,6)
Organic Laboratory Techniques II: PR: CHM 2211 and CHM 2211L. Open-end laboratory to develop synthesis techniques and structure elucidation skills.

CHM 3410 AS-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.

CHM 3411 AS-CHEM 3(3,0)
Physical Chemistry II: PR: CHM 3410. Continuation of CHM 3410.

CHM 3411L AS-CHEM 2(0,6)
Physical Chemistry Laboratory: PR: CHM 3120C and CR: CHM 3411L. Classical as well as modern instrumental techniques coupled with computer data processing to measure physical properties and determine atomic and molecular parameters.

CHM 4130C AS-CHEM 4(2,6)
Advanced Analytical Laboratory Technique: PR: CHM 2211, CHM 3120C and 3411L. A lecture-laboratory course designed to give in-depth coverage to modern methods of analysis including electrochemistry, spectroscopy, and separation techniques.

CHM 4220 AS-CHEM 3(3,0)
Organic Chemistry III: PR: CHM 2211 or its equivalent. Organic reaction mechanisms and retrosynthetic analysis and their application to synthetic chemistry.

CHM 4610 AS-CHEM 3(3,0)

CHM 4610L AS-CHEM 2(0,6)
Inorganic Chemistry Laboratory: PR: CHM 4610. A study of physical and chemical properties and synthetic techniques in Inorganic Chemistry.

CHM 4615 AS-CHEM 3(3,0)
Environmental Chemistry: PR: CHM 2046, senior level in biological, molecular, chemical or engineering sciences, or C.I. Principles of environmental chemistry, survey of environmental law, remediation technologies, industrial practices and environmentally responsible chemistry.

CHM 4914C AS-CHEM 1(1,1)
Undergraduate Research Methods: PR: CHM 2211 or C.I. Selection of a research project, instruction in literature searching, seminar preparation, and laboratory techniques beyond the scope of typical chemical laboratories.

CHM 4930 AS-CHEM 1(1,0)
Undergraduate Chemistry Seminar: PR: CHM 3411 and 4914C. A topic of current chemical interest will be presented by students at a regularly scheduled departmental seminar.

CHM 5225 AS-CHEM 3(3,0)

CHM 5235 AS-CHEM 3(3,0)

CHM 5305 AS-CHEM 3(3,0)
Applied Biological Chemistry: PR: CHM 2211. The identification from plants, synthesis, assessment of bioactivity, and design of pharmaceuticals and agrochemicals, as well as the impact of biotechnology in the chemical industry.

CHM 5450 AS-CHEM 3(3,0)
Polymers: PR: CHM 2211. An introduction to the chemistry of synthetic polymers. Synthetic methods, polymerization mechanisms, characterization techniques, and polymer properties will be considered.

CHM 5451C AS-CHEM 3(1,5)
Techniques in Polymer Science: PR: CHM 2211 and CHM 3410. A laboratory and lecture course designed to introduce students to the major polymerization mechanisms along with polymer characterization and processing methods using modern instrumentation.

CHM 5580 AS-CHEM 3(3,0)

CHS 1440 AS-CHEM 4(3,1)
Fundamentals of Chemistry for Engineers: PR: One year of high school chemistry or CHM 1032. Basic concepts of chemistry, with emphasis on problem solving and engineering applications. Atomic and molecular structure, states of matter, stoichiometry, equilibria, electrochemistry and thermodynamics.

CHS 3501 AS-CHEM 3(3,0)
Introduction to Forensic Science: PR: ‘C’ grade or better in CHM 2046 & L, or C.I. Intended for majors and non-majors to provide an overview of the specialty areas in Criminalistics (crime lab).

CHS 3505C AS-CHEM 4(2,6)
Forensic Microscopy: PR: ‘C’ grade or better in CHM 2046 & L, PHY 2054C and CHS 3501. The study of the polarized light microscope and its use in the identification and comparison of trace evidence.

CHS 3511C AS-CHEM 4(2,6)
Trace Evidence: PR: ‘C’ grade or better in CHS 3505C. An advanced study of the techniques used to identify and compare trace evidence.

CHS 3514C AS-CHEM 3(2,3)
Bomb Scene Investigation: PR: Forensic Science major, CHS 3501 or C.I. Procedures for recognizing, collecting, preserving, and analysis of evidence from a post blast bombing crime scene. May be repeated for credit.

CHS 3530C AS-CHEM 4(2,6)
Forensic Analysis of Controlled Substances: PR: ‘C’ grade or better in CHM 3120C, CHM 3410, CHM 2211 & L and CHS 3505C. The study of the presumptive tests, isolation, and instrumental techniques used in identification of controlled substances.

CHS 3533C AS-CHEM 3(2,3)
Forensic Biochemistry I: PR: ‘C’ or better in BSC 2010C, PCB 3063 & L, and PCB 3233 & L. Introduction to the concepts and procedures of contemporary forensic biochemistry, including the identification of body fluids and the use of genetic markers to establish identity.

CHS 3540C AS-CHEM 2(1,3)
Fire and Debris Analysis I: PR: CHM 3120C and C.I. A lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in fire related evidence.

CHS 3595 AS-CHEM 3(3,0)
Forensic Science in the Courtroom: PR: CHS 3501. The special needs of the forensic scientist in preparing for and participating in courtroom proceedings.

CHS 3949 AS-CHEM 0(0,8)
Cooperative Education in Chemistry: PR: Departmental permission required before registering. Cooperative education experience in chemistry. May be repeated. Graded S/U.

CHS 4200 AS-CHEM 3(3,0)
Concepts in Industrial Chemistry: PR: CHM 3410. An introduction to industrial practices and procedures emphasizing the application of chemical principles in the development of a commercial process or product.

CHS 4506C AS-CHEM 3(2,3)
Forensic Investigation Technology: PR: A grade of "C" or better in CHS 3511C. Modern technology applied to forensic investigation.

CJS 4532 AS-CHEM 3(3,0) Interpretation of DNA Evidence: PR: Grade of "C" or better in CHS 353C. Concepts and principles of genetic data analysis as applied to forensics.


CJS 4537 AS-CHEM 2(2,0) Forensic Laboratory Quality Assurance: PR: Grade of "C" or better in CHS 3501, CHS 3505C, and CHS 353C. Concepts and principles of quality assurance and quality systems management in forensic laboratories.

CJS 4541C AS-CHEM 2(1,3) Fire and Debris Analysis II: 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.

CJS 4591 AS-CHEM 4(0,40) Forensic Science Internship: 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.

CJS 5503 AS-CHEM 3(3,0) Topics in Forensic Science: PR: C.I. Will include the history of Forensic Science and current issues such as Digital Evidence.

CJS 5518 AS-CHEM 3(3,0) The Forensic Collection and Examination of Digital Evidence: PR: Adv topics in Forensic Science. This course will cover the nature of Digital Evidence collection and examination under the constraints of Law and courtroom procedures.

CJS 5596 AS-CHEM 3(3,0) The Forensic Expert in the Courtroom: PR: CHS 353C, CHS 635C, or CHS 656. A study of the uses of technically and scientifically trained expert witnesses at trial.

CJC 3010 HPA-CJ/LS 3(0,0) The Corrections and Penology: PR: CJC 3024 or C.I. Theories, structures, and methods of institutional and non-institutional processing and treatment of convicted criminals and juvenile offenders.

CJC 3134 HPA-CJ/LS 3(3,0) Prisons and jails: PR: CJC 3010. An overview and analysis of issues in institutional corrections, focusing on prison and jail history, inmates, guards, administration and management, and programming.

CJC 3164 HPA-CJ/LS 3(3,0) Community-Based Corrections: PR: CJC 3024 and CJC 3010 C.I. An overview and analysis of correction interventions and treatment programs in the community.

CJC 4410 HPA-CJ/LS 3(3,0) Correctional Interventions in Criminal Justice: PR: CJC 3014. Intervention techniques used with juvenile and adult offenders in institutional and community-based settings and study of the theoretical foundations.

CJC 5020 HPA-CJ/LS 3(3,0) Foundations of Corrections: PR: C.I. Provides an overview of correctional process in U.S., including philosophical foundations and contemporary practices.

CJE 3001 HPA-CJ/LS 3(3,0) Careers in Criminal Justice: PR: CJC 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.


CJE 3662 HPA-CJ/LS 3(3,0) CJ Information Technology and Data Management: PR: CJC 3024. Designed to familiarize with concepts of databases, uses, and applicability to crime analysis.

CJE 4014 HPA-CJ/LS 3(3,0) Police and Society: PR: CJC 3024. An examination of the varied roles of police in contemporary society. Emphasis is on dynamics of police/citizen interactions and the police subculture.

CJE 4174 HPA-CJ/LS 4(4,0) Comparative Justice Systems: PR: CJC 3024 and CJL 3510 C.I. A survey of contemporary foreign criminal justice and differences emerging from various political, cultural and legal systems.

CJE 4410 HPA-CJ/LS 3(3,0) Community Policing: PR: CJC 3014, CJE 4014. The viability of community policing. The theoretical basis for community interventions are related to the daily operations required by community policing.

CJE 4630 HPA-CJ/LS 3(3,0) Serial Murder and Criminal Justice: PR: CJC 3014. Study of extent, types, and explanations of serial murder, and responses of the general public, law enforcement, and prosecution.

CJE 4654 HPA-CJ/LS 3(3,0) Crime and Place: PR: CJC 3024. Provides an understating of how physical environmental features - the natural and built environment - influences crime events.

CJE 4663 HPA-CJ/LS 3(3,0) Crime Analysis I: PR: CJC 4152. Provides the essential data analysis skills necessary to effectively analyze crime, understand crime data structures and the problems inherent in crime data.

CJ 4654 HPA-CJ/LS 3(3,0) Delinquency Control: PR: CJC 3024 and CJI 3510 or C.I. Examination of programs and institutions including juvenile court process, intake services, and remodeling procedures and practices.

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.

CJL 3510 HPA-CJ/LS 3(3,0) Prosecution and Adjudication: PR: CJC 3024 or PLA 3013 or C.I. Examination of structures and goals of offices and prosecution and criminal trial courts, and of the processes of charging, adjudicating, and sentencing defendants.

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 warrapppings; and interrogations.

CJL 4410 HPA-CJ/LS 3(3,0) Legal Aspects of the Criminal Court Process: PR: CJL 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.


CJT 3803 HPA-CJ/LS 3(3,0) Security Management: PR: CCJ 3024. Examination of a global security management environment impact ed by downsizing a dramatically changing work force, religious extremism/terrorism, technological revolution and other challenges.

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.

CJT 3819 HPA-CJ/LS 3(3,0) Physical Security: PR: C.J. major or minor or C.I./CCJ 3024. Concepts and procedures for the development, implementation, and management of a physical security program and its application to assets protection.

CJT 3821 HPA-CJ/LS 3(3,0) Practical Security Applications: An examination of basic security principles applied to practical specific security situations encountered in the Central Florida area.

CJT 3842 HPA-CJ/LS 3(3,0) Special Security Problems: Review and application of basic security principles to retail security, transportation/cargo security, utility security, computer security, and other special security situations.

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.

CLA 3850 AS-PHIL 3(3,0) Classical Mythology: PR: ENC 1102 and either HUM 2211, 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.

CLA 3851 AS-PHIL 3(3,0) Comparative Mythology: PR: ENC 1102 and either HUM 2230, REL 2300, WOH 2022, or LIT 2120, or CLA 3850. Common themes found in the myths of various cultures; theories of their origins, meaning and value in human experience.


CLP 3143 AS-PSYCH 3(3,0) Abnormal Psychology: PR: PSY 3012 and PPE 3003. Classification, causation, and treatment of deviant patterns of behavior.

CLP 3302 AS-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.

CLP 3413 AS-PSYCH 3(3,0) Contemporary Behavior Therapy: PR: CLP 3143. Emphasis on the underlying principles and the specific intervention procedures which are utilized in contemporary behavior therapy, including treatment strategies for particular behavior disorders.

CLP 3467C AS-PSYCH 3(2,2) Interpersonal Effectiveness and Group Psychotherapy: PR: PSY 3012. Psychological...
aspects of interpersonal relationships, the rationale for group therapy, and strategies for enhancing interpersonal skills and personal growth.

CLP 4314 AS-PSYCH 3(3,0)

CLP 4314 AS-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 delivery 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.

CLP 4402C AS-PSYCH 3(2,2)
Psychology of Physical Disability: PR: PSY 3122. Psychological aspects of physical disability and rehabilitation. Psychological adjustment, body-mind relationships, family and societal dynamics relative to therapeutic intervention.

CLP 5166 AS-PSYCH 3(3,0)
Advanced Abnormal Psychology: Consideration of classification, causation, management and treatment of emotional disorders. Review of theories and research in the field. Lecture/Laboratory.

CLP 5187 AS-PSYCH 3(3,0)
Mental Health and Aging: PR: Post-bac or Graduate 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.

CMC 4240 AS-R/TV 3(1,2)
Corporate/Institutional Video: PR: RTV 3300, RTV 3500. Preparation of non-broadcast corporate/institutional video programs including planning, budgeting, production, and evaluation.

COM 2347C AS-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 S/U.

COM 3011C AS-COMM 3(1,2)
Communication and Human Relations: PR: COM 3311. Introduction to semantics, symbols and meaning and the relationship with human behavior.

COM 3110C AS-COMM 3(3,0)
Business and Professional Communication: PR: Majors only, SPC 1600C or C.I. Theoretical and practical training in effective presentation speaking for business and professions.

COM 3120 AS-COMM 3(3,0)
Organizational Communication: PR: COM 3311. A study of communication functions and problems within the contexts of hierarchies.

COM 3311C AS-COMM 3(3,0)

COM 3330 AS-COMM 3(3,0)

COM 4014 AS-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.

COM 4461 AS-COMM 3(3,0)
Intercultural Communication: Study of variables affecting messages and participants in intercultural contexts.

COM 4462 AS-COMM 3(3,0)
Conflict Management: PR: COM 3311. The study of communication in everyday conflicts.

COP 2200 ECS-EECS 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.

COP 2500C ECS-EECS 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.

COP 3223 ECS-EECS 3(3,0)
Introduction to Programming with C: Equivalent to EGN 3210. Programming in C including arrays, pointer manipulation and use of standard C math and IO libraries.

COP 3330 ECS-EECS 3(3,0)
Object Oriented Programming: PR: COP 3223. Object oriented programming concepts (classes, objects, methods, encapsulating, inheritance, interfaces) and the expression of these concepts in the programming languages such as JAVA.

COP 3346 ECS-EECS 3(3,0)
Unix Programming: PR: Knowledge of a high level language. Unix file system, shells, shell programming, filters and program development in Unix.

COP 3402C ECS-EECS 3(3,0)

COP 3502C ECS-EECS 3(3,0)
Computer Science I: PR: COP 3223 and MAC 1105. Problem solving techniques, order analysis and notation, abstract data types, and recursion.

COP 3502H ECS-EECS 3(3,0)
Honors Computer Science I: PR: COP 3223 and MAC 1105. Problem solving techniques, order analysis and notation, abstract data types, and recursion.

COP 3503C ECS-EECS 3(3,0)
Computer Science II: PR: COP 3502C and COP 3330. Continuation of Computer Science I. Introduction to object-oriented design, data structures, traversal algorithms and program correctness.

COP 3503H ECS-EECS 3(3,0)
Honors Computer Science II: PR: COP 3502H, COP 3330. Continuation of Honors Computer Science I. Object oriented design, data structures, traversal algorithms and program correctness.

COP 3503C ECS-EECS 3(3,0)
Computer Science III: PR: COP 3960 Foundation Exam. Algorithm design and analysis for tree, list, set, relational and graph data models; effects of representation on algorithm complexity. Introduction to parallel implementations.

COP 3504 ECS-EECS 3(3,0)
Operating Systems Design: PR: COP 3330C. Structure and functions of operating systems, process communication techniques, high-level concurrent programming, virtual memory systems, elementary queuing theory, security, distributed systems, case studies.

COP 3505 ECS-EECS 3(3,0)

COP 4023 ECS-EECS 3(3,0)
Software Systems Development: PR: COP 3960 (Foundation Exam) and COP 3330. The principles, processes and methods for developing large software systems in object-oriented programming languages, such as Ada and C++.

COP 4520 ECS-EECS 3(3,0)
Concepts of Parallel and Distributed Processing: PR: COP 3330C, COP 3402C. Parallel and distributed paradigms, architectures and algorithms, and the analytical tools, environments and languages needed to support these paradigms.

COP 4521 ECS-EECS 3(3,0)
Projects in Parallel and Distribution Processing: PR: COP 4520. Research and projects related to emerging architectures, computational models, languages and environments for parallel and distributed computation.

COP 4600 ECS-EECS 3(3,0)
Operating Systems: PR: COP 3402C and COP 3330C. The function and organization of operating systems, process management, virtual memory, and file management.

COP 4610 ECS-CHE 3(3,0)
Operating Systems Laboratory: PR: COP 3330C. CRI: EEL 8882. 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.

COP 4710 ECS-EECS 3(3,0)
Database Systems: PR: COP 3330C. Storage and access Structures, database models and languages, related database design, and implementation techniques for database management systems.

COP 4910 ECS-EECS 3(3,0)
Frontiers in Information Technology: PR: COP 4610L. CET 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.

COP 5021 ECS-EECS 3(3,0)

COP 5537 ECS-EECS 3(3,0)
Network Optimization: Recent advances in the theory and computational techniques for optimal design and analysis of large networks for computers, communications, transportation, and other applications.

COP 5611 ECS-EECS 3(3,0)
Operating Systems Design Principles: PR: COP 4600. Structure and functions of operating systems, process communication techniques, high-level concurrent programming, virtual memory systems, elementary queuing theory, security, distributed systems, case studies.

COP 5711 ECS-EECS 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, multidatabase systems.
COT 3100C  ECS-EECS  3(3,1)  Introduction to Discrete Structures: PR: MAC 1105, MAC 1114. Logic, sets, functions, relations, combinatorics, graphs, Boolean algebras, finite-state machines, Turing machines, unsolvability, computational complexity.

COT 3100H  ECS-EECS  3(3,0)  Honors Introduction to Discrete Structures: PR: MAC 1105, MAC 1114. Logic, sets, functions, relations, combinatorics, graphs, Boolean algebras, finite-state machines, Turing machines, unsolvability, computational complexity.

COT 3960  ECS-EECS  0(1,0)  CS Foundation Exam: PR: COP 3502C AND COT 3100C. Foundation examination for computer science majors. Required before taking COP 3530C, and COP 3426C and other 4000 level courses. Graded S/U.


COT 4210  ECS-EECS  3(3,0)  Discrete Computational Structures: PR: Admission to major or C.I., and COT 3100C, MAC 2312. Review of discrete structures, introduction to automation theory, computational complexity, analysis of algorithms, computability theory, and formal languages.


COT 4810  ECS-EECS  3(3,0)  Topics in Computer Science: PR: COP 3530C AND COP 3426C. A range of topics from the field of Computer science; application of oral and written communication skills; social, ethical and moral issues of computing.

COT 5310  ECS-EECS  3(3,0)  Formal Languages and Automata Theory: PR: COP 4202 and COT 4210. Classes of formal grammars and their relation to automata, normal forms, closure properties, decision problems. LR(k) grammars.

COT 5405  ECS-EECS  3(3,0)  Design and Analysis of Algorithms: PR: COT 4210 and COT 4710. Classification of algorithms, e.g., recursive, divide-and-conquer, greedy, etc. Data Structures and algorithm design and performance. Time and space complexity analysis.

COT 5507  ECS-EECS  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.

COT 5510  ECS-EECS  3(3,0)  Computational Methods/Linear Systems: PR: COT 4500 and MAS 3106. Mathematical models for linear systems, linear programming, the simplex method, integer and mixed-integer programming, introduction to nonlinear optimization and linearization.

COT 5520  ECS-EECS  3(3,0)  Computational Geometry: CR: COT 5405. Geometric searching, point location, convex hulls, proximity problems, Voronoi diagrams, spanning trees, triangulation, intersection arrangement applications.

CPO 3034  AS-POLS  3(3,0)  Politics of Developing Areas: Comparative analysis of theories, problems and politics of development in Third World nations.

CPO 3103  AS-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.

CPO 3104  AS-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.

CPO 3132  AS-POLS  3(3,0)  Canadian Studies: A multi-disciplinary approach to the study of Canada, its people, culture, government, and economy.

CPO 3403  AS-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.

CPO 3403H  AS-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

CPO 3614  AS-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 before and after 1945.

CPO 4062  AS-POLS  3(3,0)  Comparative Judicial Process: Study of courts and judges in cross national context. Focus upon judicial recruitment, decisional patterns, and policy outcomes.

CPO 4074  AS-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.

CPO 4123  AS-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.

CPO 4303  AS-POLS  3(3,0)  Comparative Latin American Politics: Comparative analysis of politics, society and culture in Latin America and selected countries of the region.

CPO 4643  AS-POLS  3(3,0)  Government and Politics of Russia: Study of the origins, institutions, and functioning of the Russian system, including the lingering influence of the old order on domestic and foreign policy.

CPO 4710  AS-POLS  3(3,0)  Women in Comparative Politics: PR: Junior standing or C.I. A cross-national perspective on women and politics; how women behave politically in various political and economic contexts.

CPO 4754  AS-POLS  3(3,0)  Comparative Political Institutions: PR: POS 2041, Jr. standing or C.I. The course analyzes major types of political institutions from a comparative perspective including electoral laws, division of power, types of democracy, federalism, and the judiciary.

CPO 4784  AS-POLS  3(3,0)  Political and Economic Inequality in Comparative Perspective: PR: POS 2041, Jr. standing or C.I. Economic and political inequality and the nature of the link between them across countries with different political and economic institutions.

CPO 5334  AS-POLS  3(3,0)  Contemporary Politics of the Mayan Region: PR: Senior, post-bac or graduate status. Analysis of issues affecting all peoples living in the contemporary Mayan region of southern Mexico, Belize, Guatemala, and El Salvador.

CRW 1001  AS-ENG  3(3,0)  Imaginative Writing for Non-English Majors: An introduction to imaginative writing for non-English majors. Students will explore a variety of traditional and non-traditional forms of imaginative writing.

CRW 2100  AS-ENG  3(3,0)  Fiction Writing: PR: CRW 3103. English majors in creative writing specialize in fiction writing; advanced group analysis and criticism of work produced by individual students.

CRW 2300  AS-ENG  3(3,0)  Theory and Practice of Poetry Writing: PR: CRW 3103. English or English Education major, Junior standing, or C.I. English majors in creative writing specialize in the theory and practice of verse; group analysis and criticism.

CRW 3010H  AS-ENG  3(3,0)  Honors Creative Writing: PR: Honors GEP completion and consent of the Burnett Honors College. Theory and techniques of literary genres with honors level content; practice and critique of original writing by peers and critical reading of established authors.

CRW 3013  AS-ENG  3(3,0)  Creative Writing for English Majors: PR: ENC 1102 and English or English Education major, Junior standing, or C.I. The theory and techniques of literary genres; practice and critique of original writing by peers; critical reading of established authors.

CRW 3120  AS-ENG  3(3,0)  Fiction Writing Workshop: PR: CRW 2100, CRW 3013 and Junior standing. An intermediate level fiction writing workshop for English majors; group analysis and criticism; close reading of contemporary fiction and fiction theory.

CRW 3211  AS-ENG  3(3,0)  Creative Nonfiction Writing: PR: CRW 3103 and English or English Ed major or C.I. 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.

CRW 3310  AS-ENG  3(3,0)  Poetry Writing Workshop: PR: 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.


CRW 3410  AS-ENG  3(3,0)  Writing Scripts: PR: CRW 3013 or C.I. Theory and practice of writing scripts for film and TV.

CRW 3540  AS-ENG  3(3,0)  Literary Magazines: PR: CRW 3013. Examination of fiction and poetry trends in current literary magazines, identifying editorial policies in publication of contemporary literature.


CRW 4122  AS-ENG  3(3,0)  Advanced Fiction Writing Workshop: PR: CRW 3120. Intensive writing practice in fiction. Peer critique and group discussion of original manuscripts. May be repeated once for credit.

CRW 4123  AS-ENG  3(3,0)  Science Fiction Writing: PR: CRW 3013. Study of
science fiction literature and writing of original science fiction stories. Workshop format with critique of writing assignments.

CRW 4224 AS-ENG 3(3,0) Advanced Nonfiction Workshop: PR: 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, techniques of fiction, poetry, and journalism. May be repeated for credit.

CRW 4320 AS-ENG 3(3,0) Advanced Poetry Writing Workshop: PR: CRW 3013 and CRW 3310, or CRW 2320. Intensive writing practice in poetry. Peer critique and group discussion of original manuscripts. May be repeated once for credit.

CRW 4616 AS-ENG 3(3,0) Advanced Scriptwriting Workshop: PR: CRW 3410. Intensive practice in writing scripts. Peer critique and group discussion of original manuscripts. May be repeated for credit.

CRW 5020 AS-ENG 3(3,0) Graduate Writing Workshop: Student writers present their own work, receiving detailed analysis of its strengths and weaknesses from their fellow writers and from the teacher.

CRW 5056 AS-ENG 3(3,0) Form and Theory of Nonfiction: PR: Admission to the M.A. program in English or Honors in the Major status. Focus on literary nonfiction from three perspectives: the critic, the practicing writer, and the theorist. Reading includes memoir, personal essay, criticism, and theory.

CRW 5932 AS-ENG 3(2,1) Teaching Creative Writing: PR: C.I. Creative writing practicum. May be repeated for credit.

CWR 3201 ECS-CEE 3(3,0) Engineering Fluid Mechanics: CR: EGN 3443. Fundamentals of fluid mechanics with hydraulic applications: fluid properties, hydrostatics, dimensional analysis, energy, momentum, continuity, and steady flows.

CWR 4101C ECS-CEE 3(2,2) Hydrology: PR: STA 3032, CWR 3201. Hydrological cycle, probabilistic forecasting, rainfall excess meteorology, groundwater, storm-water runoff, flood routing and design applications.

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.

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.

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.

CWR 5205 ECS-CEE 3(3,0) Hydraulic Engineering: PR: CWR 4101C and CWR 4203C. Concepts of fluid mechanics and hydraulics applied to natural and man-made flows of intent to civil and environmental engineering.

CWR 5545 ECS-CEE 3(3,0) Water Resources Engineering: PR: CWR 4101C, CWR 4203C. Systems identification and solution to complex water allocation problems, and other hydraulic engineering designs and operations using economic analysis and operations research techniques.

DAA 2100 AS-THEA 3(2,2) Theatre Modern Dance: PR: DAA 2000C & DAA 2201C or C.I. Exploration of form, style, and technique in creative movement. Includes practical class work and historical survey. May be repeated for credit.

DAA 2200C AS-THEA 3(2,2) Ballet I: PR: Restricted to B.F.A. Theatre performance or musical theatre majors. CR: TPP 3650, THE 2020, TPP 2110. Fundamentals of Classical Ballet; includes practical dance work as well as dance history lectures.


DAA 2520C AS-THEA 3(2,1) Theatre Tap Dance: PR: Theatre Major or Departmental Consent. Exploration of form, style, and technique in the basic fundamental movements of tap dance. May be repeated for credit.

DAA 2540 AS-THEA 3(2,2) Theatre Dance: PR: DAA 2200C, DAA 2201C or C.I. Specialized study of Theatre Dance styles of the 1920s to the 1980s. Demonstration and performance of students highlighting segments of Broadway shows. May be repeated for credit.

DAA 2570C AS-THEA 3(2,2) Theatre Jazz Dance: PR: DAA 2200C, TPP 2170C, B.F.A. performance/musical Theatre major. Introduction of the basic movements of American Jazz Dance, including practical class work and Jazz Dance history.

DAA 2571C AS-THEA 3(2,2) Theatre Jazz Dance II: PR: DAA 2570C, B.F.A. musical theatre major. In-depth study of Jazz Dance as a major style of dance, using theory and practice in jazz technique.

DAA 2640 AS-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.

DAE 3370 ED-TLP 3(1,2) Dance and Rhythms: The development of skill proficiency and instructional strategies in rhythmics and dance techniques, and fundamental movement patterns for grades K-12.


DEP 3202 AS-PSYCH 3(3,0) Psychology of Exceptional Children: PR: PSY 2012. Psychological problems of exceptional children, including diagnosis, associated emotional problems, effects of institutionalization, special class placement, attitudes, and appropriate intervention methods.

DEP 3464 AS-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.


EAB 3705C AS-PSYCH 4(3,2) Behavior Modification - Part II: PR: EAB 3703, EXP 3404. Continued examination of principles of behavior analysis and their application, as well as ethical issues related to the delivery of behavior analysis programs.

EAS 5765 AS-PSYCH 3(3,0) Applied Behavior Analysis with Children and Youth: PR: DEP 5057 and EXP 4545 or C.I. Advanced survey of principles, procedures, and techniques of applied behavior analysis, with special attention to applications with children and youth.

EAS 3010 ECS-MMAE 1(0,3) Fundamentals of Aerospace Flight: PR: Sophomore standing. The history of human flight. Introduction to atmospheric flight and space flight. Guest speakers/field trips to aerospace facilities; laboratory experience.

EAS 3101 ECS-MMAE 3(3,0) Fundamentals of Aerodynamics: PR: EML 3701. Fundamentals of inviscid and viscous flow and aerodynamic shapes. Theories include potential flow concepts and classical methods as they apply to airfoils, finite wings, etc.


EAS 3706 ECS-MMAE 3(3,0) Structure and Properties of Aerospace Materials: PR: CHS 1440 or CHM 2045 and MAC 2282 or MAC 2312. Atomic structure, bonding, crystal structures, solidification, phase transformations, heat treatment, mechanical behavior, specific aerospace materials, materials design.


EAS 3810C ECS-MMAE 2(1,3) Design of Aerospace Experiments: PR: EAS 3800C and EML 3701. Extension of EAS 3800C. Design of experiments in aeronautic/aerospace systems with emphasis on project team activity.


EAS 4134 ECS-MMAE 3(3,0) High-Speed Aerodynamics: PR: EGN 3343, EML 3701, EAS 3800C. Continuation of EAS 3101. Normal and oblique shock waves, nozzles and wind tunnels, methods of analyzing compressible flow about airfoils, wings, and bodies. Viscous boundary layers and applications to the design process.

EAS 4200 ECS-MMAE 3(3,0) Flight Structures: PR: EML 3034 and EML 3601. Fundamental structural and dynamic design of aircraft and space vehicle components. Classical and finite element methods.
element methods.

EAS 4210 ECS-MMAE 3(3,0) Space Structural Dynamics: PR: EAS 4200 and EML 3312C. Analytical mechanics and linear system theory. Modern approach to control of lumped parameter systems. Review of space structure applications. Use of finite elements methods.

EAS 4300 ECS-MMAE 3(3,0) Aerodynamics of Propulsion Systems: PR: EAS 4134 or EML 4703. Fundamental analysis and design considerations of propulsion systems. Turbomachinery, ramjets and rockets.

EAS 4400 ECS-MMAE 3(3,0) Spacecraft Attitude Dynamics: PR: EML 3312C. Kinematics and dynamics of rigid and multibody spacecraft rotational motion. Attitude control with momentum exchange actuators and thrusters.

EAS 4505 ECS-MMAE 3(3,0) Orbital Mechanics: PR: EGN 3321, MAP 2302. Two-body problem, orbital equations, orbital transfer, earth satellite operation.

EAS 4700C ECS-MMAE 3(1,6) Aerospace Design I: PR: EAS 3810C. 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.

EAS 4710C ECS-MMAE 3(1,6) Aerospace Design II: PR: EAS 4700C. Continuation of the design process in the team building and testing of a prototype/model of an airplane, spacecraft, system or device.


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, thermoelectric, thermonuclear, solar energy, photovoltaics and magnetohydrodynamics. Analysis and systems design.

EAS 5315 ECS-MMAE 3(3,0) Rocket Propulsion: PR: EAS 4134 or EML 4703. Analysis and performance of rocket motors; selection and thermochemistry of chemical propellants: liquid and solid propellant rockets.

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.

EAS 5535 ECS-MMAE 3(3,0) Optimization of Propulsion: PR: EAS 4700C, EAS 4710C, 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.

ECM 5135 ECS-ECCS 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.

ECM 5741C ECS-ECCS 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.

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.

ECO 2013H BA-ECON 3(3,0) Honors Principles of Economics I: PR: Open to Honors Students only. Same as ECO 2013 with honors-level content.

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.

ECO 2023H BA-ECON 3(3,0) Honors Principles of Microeconomics: 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.

ECO 3101. BA-ECON 3(3,0) Intermediate Price Theory: 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.


ECO 3223 BA-ECON 3(3,0) Money and Banking: PR: ECO 2013. Nature of money, commercial banking system, and monetary theory; and their relationship to the level of economic activity and activities of the Federal Reserve and U.S. Treasury.


ECO 3411 BA-ECON 3(3,0) Quantitative Business Tools II: PR: Junior standing, ECO 2013, and ECO 3401. The use of statistical methods as scientific tools in the analysis of economics and business problems.


ECO 3703 BA-ECON 3(3,0) International Economics: 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.

ECO 3723 BA-ECON 3(3,0) International Commercial Policy: PR: ECO 2013 and ECO 2023. Presents the fundamentals of international commercial policy, with special emphasis on U.S. trade policy since WWII.

ECO 4302 BA-ECON 3(3,0) Economics of the Environment: PR: ECO 2013, ECO 2023, or C.I. Provide fundamental insights into the interdependence between energy use, environmental quality, and the economy at both the microeconomic and macroeconomic level.


ECO 4451 BA-ECON 3(3,0) Research Methods in Economics: PR: ECO 3401 and ECO 3411. Provide skills in data collection and creation, data analysis, and research presentation.

ECO 4504 BA-ECON 3(3,0) Economics of the Public Sector: PR: ECO 2023. A study of fiscal institutions and decision-making, and how government budgetary policy (spending, taxing, borrowing, and debt management) affects the economy and its citizens.


ECO 4941 BA-ECON 3(3,0) Internships: PR: Acceptance into the graduate program. Introduction to micro and macro economic analysis.

ECO 5006 BA-ECON 3(1.5,1.5) Economics Internship: PR: Acceptance to Graduate Study. Introduction to Micro and Macro Economic Analysis.

ECO 5414 BA-ECON 1.5(1.5,0) International Relations: 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.

ECO 5415 BA-ECON 3(3,0) Statistics for Business and Economics: PR: Acceptance into the graduate program and MAC 2233. Statistical theory and problems relating to business and economics, including time series and correlation theory, index number theory and statistical inference.


**UFC Courses and Descriptions**

petitive relations between modes of transportation and criteria for public investment in transportation and criteria of public investment in transportation systems.  

**ECP 4403 BA-ECON** 3(3,0)  
**Business, Government, and Industrial Organizations:** PR: ECO 2013 and ECO 2023. A study of the performance of industries representative of various types of market structure and practices, as well as the public policies affecting these industries.  

**ECP 4603 BA-ECON** 3(3,0)  
**Urban and Regional Economic Problems:** PR: ECO 2013 and ECO 2023. Analysis of the location, organization and problems of urban and regional economic activities.  

**ECP 4703 BA-ECON** 3(3,0)  
**Managerial Economics:** PR: Junior standing, AGC 2071, ECO 2013, ECO 2023 and ECO 3411. The uses of economic analysis in economic decision-making and business policy formulation.  

**ECS 4003 BA-ECON** 3(3,0)  
**Comparative Economic Systems:** PR: ECO 2013 and ECO 2023. An analysis of the fundamental institutions of the American economic system with those of socialist and command economies. Emphasis is placed on performance criteria and economic modeling.  

**ECS 4013 BA-ECON** 3(3,0)  
**Economic Development:** PR: ECO 2013 and ECO 2023. The study of problems, theories, and issues of economic development with reference to the third world.  

**ECS 4204 BA-ECON** 3(3,0)  
**The Economies of the Pacific Rim:** PR: ECO 2013 and ECO 2023. A study of the Asian Economic Miracle examining the relationship between public policies, human resource development, and rapid shared growth.  

**ECS 4210 BA-ECON** 3(3,0)  
**The Chinese Economy:** PR: ECO 2013, ECO 2023. Economic overview of contemporary China, and review of key issues facing the country  

**ECS 4231 BA-ECON** 3(3,0)  
**The Japanese Economy:** PR: Honor Students. ECO 2013 or ECO 2023 or ECO 2013H. A study of the rapid economic transformation of the Japanese economy with a special focus on the role of human resource development.  

**ECS 4303 BA-ECON** 3(3,0)  
**Economics of European Integration:** 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).  

**ECS 4442H BA-ECON** 3(3,0)  
**Honors Economic Development of Mexico and Central America:** PR: ECO 2013 or ECO 2023. A study of the economies of Mexico and Central America under NAFTA  

**EDE 3942 ED-TLP** 1-6(0,16)  
**Internship [Elementary]:** PR: EDG 4323, RED 2012, MAE 3010 AND 3611 or MAE 3112. Student teaching assignment in an elementary school under the supervision of a certified classroom teacher.  

**EDE 4943 ED-TLP** 7-12(0,35)  
**Internship II [Elementary]:** PR: EDE 3942. Student teaching in an elementary school under the supervision of a certified classroom teacher. Scheduled concurrent seminars.  

**EDF 2005 ED-ES** 3(3,0)  
**Introduction to Education:** 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.  

**EDF 2283 ED-ES** 3(3,0)  
**Introduction to Applications of Technology in Education:** Classroom applications of instructional media including computers.  

**EDF 3120 ED-ES** 3(3,0)  
**Observing Child Growth and Development:** PR: Admission to the program. Provides a comprehensive introduction to the theories and basic theories of child growth and development from pre-natal development through age eight.  

**EDF 3307 ED-ES** 3(3,0)  
**Learning Environments and Guidance for Young Children:** PR: All courses in Block I. CF: 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.  

**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.  

**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 sociopolitical perspectives; learning theories as related to early childhood.  

**EDF 4214 ED-ERTL** 3(3,0)  
**Classroom Learning Principles:** PR: EDF 2283, Junior standing or C.I. Principles of learning as applied to classroom teaching situations, with emphasis on student development, behavior, self-concept and motivation.  

**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.  

**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.  

**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.  

**EDG 1005C ED-ES** 2(1,1)  
**Foundations of Leadership:** PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Education providing a foundation of leadership, scholarship, and service regarding disciplines in the college.  

**EDG 2701 ED-ES** 3(3,0)  
**Teaching Diverse Populations:** An introduction to cultural factors and their impact on education and life changes. Explores stereotyping, prejudice and changing classroom demographics. Includes directed field experience.  

**EDG 4323 ED-ES** 3(3,0)  
**Professional Teaching Practices:** PR: EDF 2005 or C.I. Analysis of teaching strategies for K-12 settings, including higher order thinking, classroom management, alternative assessment and adaption of instruction for diverse student populations.  

**EDG 4324 ED-ES** 3(3,0)  
**Teaching Strategies II:** PR: EDG 4323 and EDF 4214. Varieties of learning and teaching styles, appropriate methods of teaching thinking skills, problem solving, reading, and writing across the curriculum.  

**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.  

**EDG 4948 ED-ES** 3(3,0)  
**Service Learning:** PR: Junior standing 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.  

**EDG 5745 ED-ES** 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.  

**EDG 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.  

**EDH 5306 ECS-MMIE** 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 TAs and help students deliver better technical presentations.  

**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.  

**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.  

**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.  

**EEC 3268 ED-CFCS** 3(3,0)  
**Play Development:** Explores play development, facilitation, intervention and assessment. Designing play environments is emphasized.  

**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 arrangements, daily schedules and active learning teaching strategies are emphasized.  

**EEC 3610 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 implication for curriculum development.  

**EEC 3613 ED-CFCS** 3(3,0)  
**Observation and Assessment of Young Children:** PR: Admission to the program. Appropriate methods for diagnosing, assessing, and evaluating young children, including children with diverse cultural and ethnic backgrounds. Appropriate interventions, remediations, and enrichment.
EED 3940 ED-CFCS 1:2(0,1.2)  
Integration Internships: Field based placement in which the students will have supervised practice integrating course content areas.

EED 4271 ED-CFCS 3(3.0)  
Early Intervention: Provides an overview of development assessment, and intervention with at-risk and handicapped infants and toddlers.

EED 4402 ED-CFCS 3(3.0)  
Cultural and Family Systems: Explores the institution of family in its cultural context as a living dynamic system.

EED 4510 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.

EED 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.

EED 4603 ED-CFCS 3(3.0)  
Guidance of Young Children: PR: EED 3610. Provides students with techniques to guide the behavior of young children.

EED 4731 ED-CFCS 3(3.0)  
Health, Safety, and Nutrition for Young Children: Health and safety issues in early childhood (0-6). Protection from injury and infection; promotion of healthy development, good nutrition, and appropriate health and fitness habits.

EED 4936 ED-CFCS 2(2.0)  

EED 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.

EED 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.

EED 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.

EED 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.

EED 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.

EED 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.

EED 4210 ED-CFCS 3(3.0)  
Curriculum and Program Adaptation. E.H.: Development of highly specialized curriculum and identification, evaluation, modification, and use of curriculum materials and programs for students with emotional handicaps.

EED 4243 ED-CFCS 3(3.0)  
Teaching the Emotionally Handicapped: Instructional strategies with emphasis on motivational strategies, development, implementation and evaluation of the IEP, modification of regular education instructional practices, crisis intervention and prevention.

EEL 3004 ECS-ECCS 3(3.0)  
Electrical Networks: PR: PHY 2049, MAP 2302. Analysis and design of linear circuits, transients, ac analysis, power calculations, three-phase circuits, Laplace transform.

EEL 3041 ECS-ECCS 3(3.0)  
Circuit Analysis: PR: PHY 2053C. 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 CPE majors.

EEL 3123C ECS-ECCS 4(3.1)  
Networks and Systems: PR: EEL 3122C. Network functions, frequency domain analysis using Fourier series and transforms, sampling theory and z-transforms.

EEL 3306 ECS-ECCS 3(3.0)  
Semiconductor Devices I: PR: EGN 3373. Electronic devices including p-n junctions, bipolar transistors, field effect transistors and device models.

EEL 3307C ECS-ECCS 4(3.3)  

EEL 3342C ECS-ECCS 3(2,3)  
Introduction to Digital Circuits and Systems: PR: PHY 2049 or C.I. Switching theory and devices. Combinational and sequential logic. Design using standard components such as ROM, arithmetic units, multiplexers, register, and counters.

EEL 3470 ECS-ECCS 3(3.0)  
Electromagnetic Fields: PR: EEL 3122C and MAP 2302. Introduction to electric and magnetic fields and electromagnetic waves.

EEL 3520 ECS-ECCS 3(3.0)  
Information Theory: PR: MAC 2147. Fundamentals of information theory and communication systems. Topics include: the definition of information, band width and frequency spectrum, systems design, filters, modulations, demodulators, antennas, and wireless communications. Not open to EE or CPE majors.

EEL 3552C ECS-ECCS 4(3.3)  

EEL 3657 ECS-ECCS 3(3.0)  

EEL 3801C ECS-ECCS 3(2,3)  
Introduction to Computer Engineering: PR: EGN 3102 or equivalent. PR: EEL 3342C. Introduction to the field of computer engineering. Engineering applications of advanced C-language concepts. C++ topics and applications. Basic computer organization. Assembly language programming.

EEL 4130 ECS-ECCS 3(3.0)  

EEL 4140C ECS-ECCS 4(3.3)  
Analog Filter Design: PR: EEL 3307C, EEL 3212C. Passive and active analog filter design. May be repeated for credit.

EEL 4205 ECS-ECCS 3(3.0)  

EEL 4216 ECS-ECCS 3(3.0)  
Fundamentals of Electric Power Systems: PR: EEL 3212C or C.I. Three-phase power representation and analysis, transformers, per unit system, symmetrical components, faults, transmission lines.

EEL 4309C ECS-ECCS 4(3,3)  
Electronics II: PR: EEL 3307C, EEL 3342C. Ideal Op-Amps and applications. Introduction to Logic Circuits, Bipolar, MOS and CMOS families; Flip-flops and memory cells, comparators and timing circuits. A/D and D/A converters.

EEL 4314 ECS-ECCS 3(3,0)  

EEL 4436C ECS-ECCS 4(3,3)  
Microwave Engineering: PR: EEL 3470. Transmission line theory, Smith charts, S-parameters, simple impedance matching circuits, wave guides, resonators, basic microwave measurements. May be repeated for credit.

EEL 4440 ECS-ECCS 3(3,0)  
Optical Engineering: PR: EEL 3470, EEL 3552C or C.I. Lens systems, aberrations, sources, radiometry, detectors, physical optics, interferometric devices, applications to engineering design problems.

EEL 4512C ECS-ECCS 4(3,3)  
Communication Systems: PR: STA 3032, EEL 3552C and EEL 3307C. Information transmission, modulation, and noise; design and comparison systems in the presence of noise.

EEL 4515C ECS-ECCS 4(3,3)  

EEL 4518 ECS-ECCS 3(3,0)  
Satellite Communications: PR: EEL 3552C. The principles of satellite communications, including communications satellites, Earth stations, link analysis, FDMA and TDMA. May be repeated for credit.

EEL 4612 ECS-ECCS 3(3,0)  
Introduction to Modern and Robust Control: PR: EEL 3657. Classical control theory including differential equations and Laplace transform techniques, stability analysis, and classical frequency domain design.

EEL 4635C ECS-ECCS 4(3,3)  
Computer Control Systems: PR: EEL 3657. Discrete-time systems, the z-transform, and single loop control computer systems. Digital simulation in the analysis and design of processes with embedded computers. No graduate credit for both EEL 5630 and this course.

EEL 4750 ECS-ECCS 3(3,0)  

EEL 4765C ECS-ECCS 4(3,3)  
Embedded Computer Systems: PR: EEL 4768C.
EEL 4851C, EEL 4635C. Computer Applications in Systems role, sensor and actuator interfacing. Design projects, including problem statements and specifications, design methodology, implementation, testing, and documentation.


EEL 4768C ECS-EECS 4(3,3) Computer System Design II: PR: EEL 4767C. Continuation of EEL 4767C. Control anddatapath design using a hardware description language, micro-programmed architectures, instruction and arithmetic pipelines, cache and virtual memory and RISC.


EEL 4783C ECS-EECS 3(2,3) Computer-Aided Engineering Design: PR: EEL 4882 and EEL 4768C or C.I. Review of currently available CAE tools for digital hardware and software design applications.

EEL 4791 ECS-EECS 3(2,4) Telecommunications and Computer Systems: PR: EEL 3552C and EEL 3801C, EEL 3857, EEL 3307C, EEL 3470. Telecommunication and computer sub-systems are discussed as they are implemented in the space-launch system “inertial upper stages”

EEL 4832 ECS-EECS 3(3,0) Engineering Applications of Computer Methods: PR: REP 2302, STA 3032, EGN 3420. Engineering applications of numerical methods, including solution of differential equations, simulation, optimization, and multidimensional root-finding, integration and series approximations.

EEL 4851C ECS-EECS 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, and sorts. Introduction to object-oriented structures.

EEL 4872 ECS-EECS 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.

EEL 4882 ECS-EECS 3(3,0) Engineering Systems Software: PR: EEL 4851C and EEL 4767C. Introduction to operating systems concepts and facilities for engineering applications, including runtime environments, resource allocation and management, systems utilities, and operating system implementation.

EEL 4884C ECS-EECS 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.


EEL 4914 ECS-EECS 3(2,1) Senior Design I: PR: EEL 3307C, EEL 3857, 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.

EEL 4915L ECS-EECS 3(0,3) Senior Design II: PR: EEL 4914. Execution of electrical and computer engineering projects including complete project design review, construction, testing and demonstration. Emphasis on design, prototyping, cost, functionality, presentation, team effort and final report.

EEL 5173 ECS-EECS 3(3,0) Linear Systems Theory: PR: EEL 3657. Models and properties of linear systems, transformation, controllability and observability, control and observer designs, MDF, and realization theory.

EEL 5245C ECS-EECS 3(2,1) Power Electronics: PR: EEL 4390C. Principles of power electronics, semiconductor devices, inverter topologies, switch-mode and resonant dc-to-dc converters, cyclo-converters, applications.

EEL 5324C ECS-EECS 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.

EEL 5352 ECS-EECS 3(3,0) Semiconductor Material and Device Characterization: PR: EEL 3306 or C.I. Semiconductor material characterization: resistivity, mobility, doping carrier lifetime, device properties, threshold voltage, interface charge of MOS devices, optical and surface characterization of films.

EEL 5353 ECS-EECS 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.

EEL 5355C ECS-EECS 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.

EEL 5357 ECS-EECS 3(3,0) CMOS Analog and Digital IC Design: PR: EEL 3306 and EEL 4390C. The objective of this course is to present the principles and techniques of the design of analog and digital circuits that are to be implemented in a CMOS technology.


EEL 5390 ECS-EECS 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.

EEL 5432 ECS-EECS 3(3,0) Satellite Remote Sensing: PR: EEL 3470 or PHY 4324. Fundamentals of satellite remote sensing, orbits and geometry, radiative transfer theory, microwave and infrared sensing techniques, ocean, ice and atmosphere, hyperspectral measurements.

EEL 5434 ECS-EECS 3(3,0) Microwave Circuits and Devices: PR: EEL 4430C or EEL 5555C. Planar transmission lines; passive microwave circuits; active circuit design using Gunn, IMPATT, FETS, RTDS, etc.: microwave integrated circuits.
3032. Stochastic modeling and discrete-event simulation; Markov chains; networks of queues; Semimarkov models; application to multiprocessor systems, switching and multi-user communications.

EEL 5771C ECS-EECS 3(2,3) Engineering Applications of Computer Graphics: PR: EGN 4340 or C.I. Computer graphics in engineering applications. Laboratory assignments.

EEL 5820 ECS-EECS 3(3,0) Image Processing: PR: MAP 2302, EGN 3420, EEL 4750 or C.I. Two-dimensional signal processing techniques; pictorial image representation; spatial filtering; image enhancement and encoding; segmentation and feature extraction; introduction to image understanding techniques.

EEL 5825 ECS-EECS 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.

EEL 5860 ECS-EECS 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.

EEL 5874 ECS-EECS 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.

EEL 5881 ECS-EECS 3(3,0) Software Engineering I: PR: EGN 3420, EEL 4851C or C.I. Design, implementation, and testing of computer software for engineering applications.

EEL 5981 ECS-EECS 3(3,0) Continuous System Simulation I: PR: EEL 3587 or C.I. Use of state-space techniques, numerical integration, and CSSL programs. Laboratory assignments.

EES 3004 ECS-EECS 3(3,0) Environmental systems: PR: One semester of college level science beyond Chemistry or Biology. A technical literacy course in environmental systems for wastewater, drinking water, groundwater, soil, and air treatment for non-engineering majors.

EES 4111C ECS-CEE 3(2,3) Biological Process Control: PR: EES 4202C or C.I. and CR: ENV 4561. Engineering design, measurements and analysis of biological systems in environmental engineering for water management, bio-energy products, wastewater treatment, and others.

EES 4202C ECS-CEE 3(2,3) 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, disinfection, scrubbing, neutralization, and others.

EES 5605 ECS-CEE 3(3,0) Outdoor Noise Control: PR: C.I. Community noise evaluation and control, legislative standards, instrumentation and measurement, abatement methods, and noise modeling.

EET 2025C ECS-ENT 4(3,2) Electrical Circuits: PR: DC Circuits or EET 3085C, and MAC 1114, or C.I. Frequency domain and steady state analysis of electric circuits: RCL circuits, timed circuits, resonance and Q filters, magnetically coupled circuits, transformers, 3-phase circuits, power relationships.


EET 3716 ECS-ENT 3(3,0) Network Analysis: PR: DC/AC circuits and Calculus I. Transient analysis of first and second-order circuits; circuit analysis using Laplace Transforms. Transform function, frequency response analysis, and Bode plots. May be repeated for credit.

EET 4158C ECS-ENT 3(2,2) Linear Integrated Circuits: PR: EET 3716, or Consent of Coordinator. Applications of operational amplifiers, comparators, phase-locked loops, timers, regulators, other integrated circuits. Includes amplifiers, active filters, oscillators, differentiators and integrators.


EET 4548C ECS-ENT 3(3,0) Power Systems: PR: EET 3085 and EET 2025. 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.


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.

EEX 2010 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.

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.

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.

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.

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.

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.

EEX 3754 ED-CFCS 3(3,0) Parents as Educators: Develop parent awareness of their role in child development and school success. Attention given to social context of parenting and parents as advocates for children.

EEX 3864 ED-CFCS 6(0,16) Internship I: PR: EDG 4323, RED 3012, EEX 2010, EEX 3241. Satisfactory completion of the portfolio. Internship assignment 2 days a week under a certified exceptional education teacher. Fall in elementary, fall in secondary. Graded S/U.

EEX 3940 ED-CFCS 3(3,0) Internship I Exceptional Education: PR: EDG 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.


EEX 4054 ED-CFCS 2(2,0) Application and Theories for Students with Special Needs: PR: EEX 2010, EDG 4323. Theories and historical foundations for students with specific learning, physical, cognitive, and emotional disabilities.

EEX 4066 ED-CFCS 3(3,0) Curriculum and Instructional Strategies for Special Needs Students: PR: EEX 2010, EEX 4054, EEX 3241, EDG 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.

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.

EEX 4751 ED-CFCS 3(3,0) Parent Involvement in Education: This course pre-
pares students to successfully interact with and
involve parents in their child’s education.
EEX 4753 ED-CFCS 3(3,0)
Parent/Professional Collaboration: The special edu-
cator’s role in working with families, regular educa-
tors, and other professionals in a collaborative rela-
tionship.
EEX 4943 ED-CFCS 12(0,35)
Internship II: PR: Completion of specialization.
Satisfactory completion of the portfolio. Full day stu-
dent teaching under a certified special education
teacher in an elementary or secondary school. May
be repeated for credit. Graded S/U.
EEX 5054 ED-CFCS 3(3,0)
Exceptional Children in the Schools: PR: Senior
standing or C.I. Characteristics, definitions, education-
al problems, and appropriate educational programs
for the exceptional children in schools.
EEX 5702 ED-CFCS 3(3,0)
Planning Curriculum for Pre-kindergarten
Children with Disabilities: Focus on curriculum plan-
nning; developmentally appropriate practices and
implementation of individualized instruction for pre-
kindergarten children with disabilities.
EEX 5750 ED-CFCS 3(3,0)
Communication with Parents and Agencies:
Presentation of methods of interacting with communi-
ty agencies, supporting and collaborating with fami-
lies, developing a case management system, and
facilitating program transition.

EGM 3373H ECS-EECS 4(4,0)
Principles of Electrical Engineering: PR: PHY
3049, MAP 3302, Honors program. Fundamental laws
of electrical circuits analysis; fundamentals of elec-
tronics and power systems. Honors level content.
EGN 1006C ECS-MMAE 1(1,1)
Introduction to the Engineering Profession: PR:
New students status or C.I. Overview of academic
and professional requirements in various engineering
disciplines.
EGN 1007C ECS-ECS 1(1,2)
Engineering Concepts and Methods: PR: New stu-
dent status or C.I., EGN 1006C and ENC 1101: 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 communica-
tion; engineering professionalism and ethics.
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 foun-
dation of leadership, scholarship, and service regard-
ing disciplines in the college.
EGN 1111C ECS-MMAE 2(1,3)
Spatial visualization, sketching and graphical presen-
tation in the use of computerized engineering commu-
nication. Engineering drawing, descriptive geometry
and graphical solution techniques using computer
software.
EGN 1360 ECS-MMAE 3(3,0)
Materials in Today’s World: A survey of the proper-
ties, manufacture, and uses of metals, ceramics, and
polymers in today’s world with emphasis on modern
development and new materials.
EGN 2920C ECS-IEMS 2(1,1)
LEAD Colloquium: PR: C.I., LEAD Scholars.
Program, Must have completed at least two of the fol-
lowing with a grade of B or better: IDS 1040C, GEB
1091C, EGN 1036C, EDG 1005C or HSC 191C.
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.
EGN 3210 ECS-EECS 3(3,0)
Engineering Analysis and Computation: PR: MAC
2311. Engineering analysis and computation with
structured constructs. Subscripted variables, subpro-
grams, input/output. Batch processing and time shar-
ing. Engineering applications will be emphasized.
EGN 3310 ECS-CEE 3(3,0)
Engineering Analysis-Statics: PR: PHY 2048; CR:
MAC 2312. Fundamental concepts of mechanics,
including resultants of force systems, free-body dia-
grams, equilibrium of rigid bodies, and analyses of
structures.
EGN 3310H ECS-CEE 3(3,0)
Engineering Analysis-Statics (Honors): PR: PHY
2048; CR: MAC 2312 or MAC 2282. (Honors section
for EGN 3310) Advanced treatment of material and
additional topics. More challenging assignments.
Project work. May be repeated for credit.
EGN 3321 ECS-MMAE 3(3,0)
Engineering Analysis-Dynamics: PR: EGN 3310,
CR: MAC 2313. Kinematics and kinetcs of particles
and rigid bodies; mass and acceleration, work and
energy, impulse and momentum.
EGN 3321H ECS-CEE 3(3,0)
Engineering Analysis - Dynamics: Honors PR:
Honors college, EGN 3310. Kinematics and kinetics
of particles and rigid bodies; mass and acceleration;
work and energy; impulse and momentum
EGN 3331 ECS-CEE 3(3,0)
Mechanics of Materials: PR: EGN 3310; CR: MAP
3202. Concepts of stress, strain, strength, deflection
of axial force members, shafts in torsion, beams in
flexure; combined stress; stability of columns, and
design of simple elements.
EGN 3343 ECS-MMAE 3(3,0)
Work, heat, and energy transformations. Relation of
properties. Laws, concepts, and modes of analysis
common to all applications of thermodynamics in
engineering.
EGN 3358 ECS-MMAE 3(3,0)
Thermo-Fluids-Heat Transfer: PR: EGN 3310, MAP
3202. Introduction to first and second laws of thermo-
dynamics, continuum fluid mechanics, and heat trans-
fer for electrical, industrial, and computer engineering
majors.
EGN 3365 ECS-MMAE 3(3,0)
Structure and Properties of Materials: PR: CHS
1440 and MAC 2312. Atomic structure and bonding,
crystal structure and imperfections, solidification,
phase transformation, phase diagrams, heat treat-
ment, mechanical & electrical properties, materials
characterization techniques.
EGN 3373 ECS-EECS 3(3,0)
Principles of Electrical Engineering: PR: PHY
2049; CR: MAP 3202. Fundamentals of electrical cir-
cuits and analysis; fundamentals of electronics and
AC power systems, transformers, electromechanics
and rotating machines.
EGN 3373H ECS-EECS 3(3,0)
Principles of Electrical Engineering Honors: PR:
PHY 2049; CR: MAP 3202. Fundamentals of electric-
circuits and analysis. Fundamentals of electronics
and AC power systems, transformers, electromechan-
ics and rotating machines.
EGN 3420 ECS-EECS 3(3,0)
Engineering Analysis: PR: High-level computer lan-
guage; MAC 2312. Engineering applications of
numerical methods including curve fitting, matrix op-
erations, root finding, interpolating, integration and plot-
ting.
EGN 3613 ECS-IEMS 2(2,0)
Engineering Economic Analysis: PR: ECO 203
Economic evaluation of engineering alternatives and
design. Time value of money and economic impact of
taxes, risk, depreciation.
EGN 3704 ECS-CEE 2(2,0)
Engineering and the Environment: PR: CHS 1140
and MAC 2312. Process engineering for air, energy,
water, and land environment and the role of engineer-
ing in control of these environments.
EGN 3843 ECS-ECSE 3(3,0)
Systems Modeling: PR: CGS 1060C or equivalent.
Representation of man/machine systems through
analytic and computer-based models. Case studies in
the analysis and improvement of systems in industry,
education, and government.
EGN 4033 ECS-ECSE 3(3,0)
Technology and Social Change: PR: History/Humanities Sequence or C.I. Review of exist-
ing theories of social change, analysis of the role of
technology as related to social change, and study of
current events in technology and their possible
impact on society.
EGN 4412 ECS-MMAE 3(1,5)
Interdisciplinary Design I: PR: Industrial: EEL
4384CC, Comp. and Elec. EEL 3307C, EEL 3516,
EEL 3552C, EEL 3821C; Aero: EAS 3821C, CR: EML
3312C, EAS 3404C, Comp. Sci. COT 3960, COP
3503C; Mech: EML 3500, EML 3701, EML 3502C,
CR: EML 3312C, EML 3804C. 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.
EGN 4413 ECS-MMAE 3(1,5)
Interdisciplinary Design II: PR: EGN 4412C.
Continuation of interdisciplinary Design I May be
repeated for credit.
EGN 4624 ECS-IEMS 3(3,0)
Engineering Administration: PR: Senior standing.
Engineering organization and administration; delega-
tion of authority and responsibility; effective use of
resources; project management; R and D planning;
etics in professional practice.
EGN 4706C ECS-MMAE 3(2,4)
Small Satellite Payloads and Integration: PR: EML
3303 OR EAS 3800 OR EEL 3801 OR CRI 4523.
Evaluate overall impact of integration and design con-
cepts on various satellite component subsystems and
their payloads into a small satellite system design
leading to a final configuration.
EGN 4707C ECS-ECSE 3(2,4)
Processing Space-Launch Systems: PR: For ECE:
EEL 3552C or EEL 4767C; For IEMS: ESI 4523C; For
MAE: EAS 3900C. Assembly and test techniques for
preparing and check-out of the space-launch system
“Inertial Upper Stage.” May be repeated for credit.
EGN 4813 ECS-ENT 3(3,0)
Science in History: Examination of the reciprocal
relations of science and society from ancient to recent
times.
EGN 4814 ECS-ENT 3(3,0)
Technology in History: PR: History/Humanities
sequence or C.I. Important developments in engineer-
ing and technology and their effect on society and our
socio-economic processes.
EGN 4816 ECS-ENT 3(3,0)
Technology Analysis: PR: C.I. Student is introduced
to scientific and analytical methods of decision mak-
ing. Basic modeling, statistical methods and computer
usage.
EGN 4823 ECS-ENT 3(3,0)
Topics in Urban Development: Production, distribu-

UNIVERSITY OF CENTRAL FLORIDA
2003-2004 Undergraduate Catalog

294
tion, and consumption of various commodities. Engineering relationships to distribution, internal structure, function of urban developments, interrelations of engineering, social, economic, and cultural phenomena.

EGN 4824 ECS-ENT 3(3,0) Energy and Society: Investigation of available energy forms; energy resources versus requirements in an increasingly complex technological society; possible solutions and future predictions.

EGN 4825 ECS-ENT 3(3,0) Environment and Society: PR: C.I. Environmental factors of importance to people’s interaction with the environment; engineering and non-engineering measures to insure improvement and maintenance of environmental quality. Not for engineering students.

EGN 4830 ECS-ENT 3(3,0) Telecommunications: Telecommunications and its role in contemporary local, national, and international society.

EGN 4931H ECS-ECS 3(3,0) Engineering Honors Seminar: PR: 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.

EGN 4933 ECS-ECS 1(1,0) Professional Engineering Practice: PR: Senior standing or C.I. Seminars dealing with current and future global issues within the engineering profession.

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, electric light, etc.

EGN 5720 ECS-IEMS 3(2,3) Internal Combustion Engine Analysis and Optimization: PR: EGN 3343 or EGN 3354 or C.I. Internal combustion engine operating principles. Topics covered include engine design and operating parameters, combustion, thermodynamics, induction flow, and basic mathematical models.

EGN 5840 ECS-ECS 3(3,0) Small Rocket Applications for Teachers: PR: Admission to Martin Marietta/UFC Academy Earth and space environments, rocket propulsion, meteorological and environmental measurements, payload launch procedures, orbits and trajectories, safety, model rocket experiments, field trips, student science experiments.

EGN 5855C ECS-IEMS 3(2,2) Metrology: PR: EIN 4391 or C.I. Advanced topics in inspection and measurement with applications in engineering and manufacturing.

EGN 5858C ECS-IEMS 3(2,2) Introduction to Rapid Prototyping: PR: Basic knowledge and/or experience in CAD/CAM technology or C.I. Topics fundamental to rapid prototyping and automated fabrication technologies. Actual design and fabrication of a part using in-house laboratory facilities.

EIN 3304 ECS-IEMS 3(2,0) Introduction to Industrial Engineering and Management Systems: Issues important to the operation of an industrial or service facility.


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.

EIN 4116C ECS-IEMS 3(2,2) Systems Analysis and Design: PR: EIN 4364C. Systems analysis methodology, system requirements, specifications, system design methodology and decision support. Consulting skills and client interactions. Initiation of senior design projects.

EIN 4118C ECS-IEMS 3(2,3) Industrial Engineering Applications of Computers: PR: EGN 3210 or high level programming language. Survey of microcomputer methods in industrial engineering practice. Topics include: spreadsheets, databases, expert systems, and project management. Lab exercises.

EIN 4214 ECS-IEMS 3(3,0) Safety Engineering and Administration: Analysis of accidents in the industrial operating environment. Application of fault trees. OSHA requirements. Consideration of accident costs and organizational aspects of accident prevention.

EIN 4243C ECS-IEMS 3(2,2) Human Engineering: PR: EIN 3314C. Senior standing. Man/machine systems; design and conduct of human engineering studies.

EIN 4305C ECS-IEMS 3(2,2) Industrial Engineering Applications in the Service Industries: PR: EIN 3314C, ESI 4312, ESI 4234 or C.I. Application of industrial engineering principles to improve the quality and productivity of service industries such as restaurants, banks, hotels, healthcare, etc.

EIN 4333C ECS-IEMS 3(2,3) Industrial Control Systems: PR: ESI 4312. Decision rules in industrial environment including Forecasting, Production Planning, Scheduling, Inventory Control, and Project Monitoring. Laboratory assignments.

EIN 4364C ECS-IEMS 3(2,2) Industrial Facilities Planning and Design: PR: EIN 3314C, EIN 3354, EIN 4391C. CR:EIN 4333C. Comprehensive design of industrial production systems, including interrelationships of plant location, process design, and materials handling. Laboratory assignments.

EIN 4391C ECS-IEMS 3(2,2) Manufacturing Engineering: PR: EGN 3365. Introduction to machine engineering, with emphasis on current and emerging technologies in metalworking and electronics.

EIN 4400 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.

EIN 4411C ECS-IEMS 3(2,2) Computer-Aided Manufacturing: PR: EIN 4315C. Computer-Aided Manufacturing (CAM) including computer numerical control (CNC), robotics, parts classification (GT) and manufacturing resource planning (MRP).

EIN 4891C ECS-IEMS 3(2,3) Industrial Engineering Senior Design Project: PR: EIN 4116C. Senior standing. Capstone design course; application of IEMS techniques to real-world design applications.

EIN 5108 ECS-IEMS 3(3,0) The Environment of Technical Organizations: PR: Graduate status or C.I. EGN 4624 recommended. Presentation and investigation into the principles required to transform technologists into managers focusing on engineers, scientists, and other professionals providing services in technically-oriented organizations.

EIN 5117 ECS-IEMS 3(3,0) Management Information Systems: I: PR: C.I. The design and implementation of computer-based Management Information Systems. Consideration is given to the organizational, managerial, and economic aspects of MIS.

EIN 5140 ECS-IEMS 3(3,0) Project Engineering: PR: Graduate standing or C.I. Role of engineer in project management with emphasis on project life cycle, quantitative and qualitative methods of cost, schedule, and performance control.

EIN 5248C ECS-IEMS 3(2,2) Ergonomics: PR: C.I. Applications of anthropometry, functional anatomy, mechanics, and physiology of musculoskeletal system concepts in the engineering design of industrial tools, equipment, and workstations.

EIN 5251 ECS-IEMS 3(3,0) Human-Computer Interaction: Usability Evaluation: Usability paradigms/principles; cognitive walkthroughs; heuristic, review-based, model-based, empirical and storyboard evaluation; techniques; quality techniques; laboratory techniques; and field study approaches.

EIN 5255 ECS-IEMS 3(3,0) Interactive Simulation: PR: Post-Baccalaureate status or C.I. Introduction to significant topics relative to the development and use of simulators for knowledge transfer in the technical environment.

EIN 5317 ECS-IEMS 3(3,0) Training System Design: PR: seniors, post grad or graduate standing or C.I. How human performance deficiencies should be addressed from a systems design point of view. Manpower, personnel, and training considerations will be examined.

EIN 5356 ECS-IEMS 3(3,0) Cost Engineering: Cost estimation and control of engineering systems throughout the product life cycle.


EIN 5381 ECS-IEMS 3(3,0) Engineering Logistics: Study of the logistics life cycle involving planning, analysis, design, testing, production, distribution, and support.

EIN 5388 ECS-IEMS 3(3,0) Forecasting: PR: ESI 5219. Industrial applications of forecasting methods with emphasis on microcomputer-based packages.

EIN 5392C ECS-IEMS 3(2,2) Manufacturing Systems Engineering: PR: EIN 4391C or C.I. The integration of manufacturing technologies and information processing concepts into a system for controlling the manufacturing enterprise.

EIN 5415C ECS-IEMS 3(2,2) Tool Engineering and Manufacturing Analysis: PR: EIN 4411C. Tool materials and design, tolerance technology, theory of metal cutting, and machineability.

EIN 5602C ECS-IEMS 3(2,2) Expert Systems in Industrial Engineering: Overview of basic concepts, architecture and construction of expert systems in EIE. Intelligent simulation training systems, case studies and problems. Laboratory exercises.

EIN 5607C ECS-IEMS 3(2,2) Computer Control of Manufacturing Systems: PR: EIN 4391C, and EIN 4411C or EML 4535C, or C.I.
Automated systems for manufacturing, numerical control (NC) machines, NC programming, robot control and programming, machine and system control.

EIN 5936 ECS-IEMS 1(1,0) Seminar in Industrial Engineering: Doctoral Research: PR: C.I. Essential topics for doctoral research including areas, skills, funding, proposals, ethics, mentors, seminars, societies, conferences, presentations, interviewing, grants, and publishing.

ELD 4011 ED-CFCS 3(3,0) Intro to Specific Learning Disabilities: Nature and needs of students with learning disabilities to include history, theories, characteristics, definitions, assessments, issues, and application of effective teaching practices.

ELD 4242 ED-CFCS 3(3,0) Program Planning for Specific Learning Disabilities: PR: Senior standing. Development of highly specialized techniques, curriculum materials, to be used with students with special learning disabilities.


EMA 3000 ECS-MMAE 3(3,0) Engineering Polymer, Ceramic, and Composite Materials: PR: EGN 3365. Structure, properties, processing of engineering polymeric, ceramic, and composite materials.

EMA 3012C ECS-MMAE 3(2,2) Experimental Techniques in Mechanics and Materials: PR: EGN 3365. Materials characterization (optical and scanning electron microscopy, x-ray diffraction), heat treatment, mechanical testing (hardness, tensile, impact, etc.).

EMA 3124 ECS-MMAE 3(3,0) Structure and Properties of Alloys: PR: EGN 3365. Relation of properties to microstructure and applications of major ferrous and non-ferrous alloys.


EMA 4501 ECS-MMAE 3(2,2) Scanning Electron Microscopy: PR: EGN 3365 or C.I. A review of electron optics, beam/specimen interactions, image formation, x-ray analysis, specimen preparation, microelectronic applications, and crystallography in the SEM.


EMA 4701C ECS-MMAE 3(2,4) Materials Performance in Space Applications: PR: EGN 3365. Laboratory failure analysis of materials within space-related environments.

EMA 5060 ECS-MMAE 3(3,0) Polymer Science and Engineering: PR: EGN 3365. Structure and properties of polymers, preparation and processing of polymers, mechanical properties, use in manufacturing and high tech applications.


EMA 5106 ECS-MMAE 3(3,0) Metallurgical Thermodynamics: PR: EGN 3365. Laws of thermodynamics, phase equilibria, reactions between condensed and gaseous phases, reaction equilibrium in condensed solution and phase diagrams.

EMA 5108 ECS-MMAE 3(3,0) Surface Science: PR: PHY 2040 and C.I. Methods of chemical and physical analysis of surfaces, with emphasis on ultra-high vacuum spectroscopic utilizing electron, ion and photon probes.

EMA 5140 ECS-MMAE 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.

EMA 5317 ECS-MMAE 3(3,0) Materials Sciences: PR: Materials Thermodynamics. Topics include Anharmonic law, free energy, Johnson-Mehl equations, heterogeneous vs. homogeneous reactions, mixing, electrodeposition, thermal analysis in kinetics. Graded S/U.

EMA 5326 ECS-MMAE 3(3,0) Modern Characterization of Materials: PR: EMA 5104 or C.I. Techniques and operation of instrumentation (light, scanning, transmission, and Auger microscopy) for the characterization of structure, defects, composition, and surfaces.

EMA 5505 ECS-MMAE 3(2,2) Scanning Electron Microscopy: PR: EMA 5104 or C.I. A review of electron optics, beam/specimen interactions, image formation, x-ray analysis, specimen preparation, microelectronic applications and crystallography in the SEM.

EMA 5517 ECS-MMAE 3(2,2) Advanced Materials Characterization by Ion Beam Analysis: PR: EMA 5304 or C.I. Principle of interactions between beam and solid materials; sputtering and scattering theories; fundamentals and applications of secondary ion mass and Rutherford Backscattering spectrometric. May be repeated for credit.


EMA 5586 ECS-MMAE 3(3,0) Photovoltaic Solar Energy Materials: PR: EGN 3365. Materials properties basic to photovoltaics, structures, homojunction, heterojunction, and surface barrier solar cells, AMDS-1D modeling of c-Si, GaAs bulk and a-Si:H, CIGS, and CdTe thin film solar cells. May be repeated for credit.


EMA 5610 ECS-MMAE 3(3,0) Laser Materials Processing: PR: EGN 3343 or EMA 5106 or C.I. Laser beam optics; laser-material interactions; laser heating, melting, vaporization. Plasma formation, laser surface treatment, welding, machining; laser material synthesis. Thin film deposition, crystal growth.

EMA 5705 ECS-MMAE 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, aero- and land-based gas turbine requirements.

EME 2040 ED-ERTL 3(3,0) Technology for Educators: Introduction to technology for educators, including classroom management tools, multimedia, communication networks, interactivity, educational software and legal, ethical and social issues.

EME 5050 ED-ERTL 3(3,0) Fundamentals of Technology for Educators: PR: Post-bac 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.

EME 5051 ED-ERTL 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.

EME 5052 ED-ERTL 3(3,0) Electronic Resources for Education: PR: EME 5051 or C.I. Study and application of electronic resources available for education including techniques for locating, evaluating, and integrating them into the classroom.

EME 5054 ED-ERTL 3(3,0) Instructional Systems Technology: A Survey of Applications: Applications of instructional technology in settings other than public schools. Survey of facilities, programs, and services in business, industry, religion, government, higher education, and medical settings.

EME 5056 ED-ERTL 3(3,0) Communication for Instructional Systems: PR: EME 5056. Applications of technology; communications theory, platform skills, and instructional design to the effective presentation of training programs and instruction.

EME 5208 ED-ERTL 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.

EME 5225 ED-ERTL 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 adultSõ informational and recreational needs; analysis, evaluation, and utilization of print and non-print materials.
Mathematical Modeling of Dynamic Systems: PR: EML 2400 or C.I. Introduction to applications for the design, production, and management of interactive computer-aided instructional systems.

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.)


Thermodynamics of Mechanical Systems: PR: EGN 3343. Applied thermodynamics, availability analysis, exergetic and reactive and non-reactive mixtures, thermodynamic relations of properties. Thermodynamic design analysis of complete mechanical systems.

Kinematics of Mechanisms: PR: EGN 3321. Graphical, mathematical, and computer-aided kinematics, analysis, and synthesis of basic mechanisms.


Application of the principles of mechanics of materials to the design of mechanical elements.

Solid Mechanics: PR: EGN 3310; CR: MAP 2302. Concepts, stress, strain, deflection, axial force, torsion, bending, combined stress, Mohr's circle, failure theories; design concepts, application to machines and vehicles.

Fluid Mechanics I: PR: MAP 2302, EGN 3321, EGN 3343. Basic principles of continuum fluid mechanics. Integral and differential forms of governing equations; fluid statics, dimensional analysis, measurements, internal flows.

Digital Control in Mechatronics: PR: EML 3312C. Discrete microprocessor control of mechatronics dynamic systems using state-space representation; Digital controllers: Design for mechatronic applications.

Design in Nature and Engineering: PR: EGN 3343 and EML 3601. Design for function and invention, in both engineered systems and natural forms, beauty, energy, mechanism, structure, evolution in nature.


Dynamics of Machinery: PR: EML 3626C and EML 4220. Critical speeds and response of flexible rotor systems, whirl, gyroscopic effects; balancing of rotating and reciprocating masses; cam dynamics.


Thermo-Fluids Measurements: PR: EML 3303C and EML 4142. Measurements in thermofluid systems with emphasis on design of experiments.

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.

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, thermo-fluid, or material problems are considered.

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.

CAD/CAM/FEM computational technology. Basic concepts. Concurrent engineering approach to mechanical, thermal, and aerospace systems design and analysis. Use of in-house software.


Engineering Design Practice: PR: C.I. The course is designed to familiarize students with basic CAD/CAM solid modeling techniques in a project oriented environment. Students will construct part models, drawings, and assemblies. Use of in-house software.

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 inversions, variable coefficient ODEs and solution techniques, applications of heat transfer, ideal fluid flow, and mechanics.
ENC 4360 AS-ENG 3(3,0) Nature Writing: PR: ENC 1102. Students will write essays that explore different approaches to writing about the natural world, and will discuss issues raised by such writing.

ENC 4414 AS-ENG 3(3,0) Studies in Hypertext: PR: ENC 1102. Hypertext and the architectures of large scale websites used by industry, government, and education

ENC 4415 AS-ENG 3(3,0) Digital Rhetorics and The Modern Dialectic: PR: ENC 1102. This online course explores the development of digital/digital rhetorics through a close reading and analysis of formative rhetorical texts, modern American fiction and films.

ENC 5214 AS-ENG 3(3,0) Production and Publication Methods: Theory and practice of production and publication methods for technical writers.

ENC 5216 AS-ENG 3(3,0) Editing Professional Writing: PR: Graduate status or C.I. The study of major issues in editing, including levels of edit, grammar and mechanics, visuals, style, and the impact of technology

ENC 5219 AS-ENG 3(3,0) Graphics in Technical Writing: A study of the creation and editing of graphics in technical documents.

ENC 5225 AS-ENG 3(3,0) Theory and Practice of Document Usability: PR: Graduate standing. Presents theory and practice of how document usability is assessed and improved.

ENC 5237 AS-ENG 3(3,0) Writing for the Business Professional: PR: Graduate status or C.I. A study of the major document designs for professionals in business, focusing on audience, purpose, style, arrangements, and content

ENC 5245 AS-ENG 3(3,0) Teaching Professional Writing: 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.

ENC 5256 AS-ENG 3(3,0) Gendered Rhetoric: PR: Graduate status 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

ENC 5276 AS-ENG 3(3,0) Writing/Consulting: Theory & Practice: PR: Graduate status of C.I. The theory and practice of assessing and responding to writing as a collaborator (as opposed to evaluator).

ENC 5277 AS-ENG 3(3,0) Teaching Writing With Computers: PR: Graduate 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.

ENC 5306 AS-ENG 3(3,0) Persuasive Writing: Theory and practice of writing persuasively.

ENC 5335 AS-ENG 3(3,0) Rhetorical Traditions: PR: Graduate standing or C.I. To provide a foundation for research by familiarizing students with the chronological spectrum practice and theory of rhetoric form classical to contemporary times.

ENC 5337 AS-ENG 3(3,0) Modern Rhetorical Theory: With special attention to the rhetor-audience relationship, the course studies history and practice of modern rhetorical theory.

ENC 5338 AS-ENG 3(3,0) The Rhetorics of Public Debate: PR: Graduate standing or C.I. To examine how rhetorical theories further community goals, including activist, political, legislative, and other significant public debates.

ENC 5344 AS-ENG 3(3,0) Proposal Writing: Theory and practice of writing proposals.

ENC 5425 AS-ENG 3(3,0) Hypertext Theory and Design: PR: post-bac standing or C.I. Theoretical and practical study of the uses and premises of hypertext.

ENC 5427 AS-ENG 3(3,0) Hypertext: PR: Senior or Graduate standing. A study of the theory and practice of computer-driven hypertext.

ENC 5474 AS-ENG 3(3,0) Teaching Practicum: PR: ENC 5705, Graduate Standing or C.I. To supplement and deepen theoretical and practical experiences during their first teaching semester, GTAs will participate in staff development and individual conferences with their mentors.

ENC 5705 AS-ENG 3(2,1) Theory and Practice in Composition: PR: Senior standing or C.I. Intensive study of theories of composition, with practical experience in the writing laboratory and in composition classes.

ENC 5945 AS-ENG 3(3,0) Community Literacy Practicum: PR: Graduate standing or C.I. Designed to deepen theoretical understanding of literacy through participation in a community literacy project.

ENG 3010 AS-ENG 3(3,0) Practical Criticism: PR: ENC 1102. Student evaluation of selected fiction, poetry, and drama through practical exercises in literary criticism.

ENG 3014 AS-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.

ENG 3073 AS-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.”

ENG 4114 AS-ENG 3(3,0) Literature and Film: PR: ENC 1102 and ENG 3014. The differences in emphasis, medium, and technique in selected novels and their film adaptations.

ENG 5009 AS-ENG 3(3,0) Methods of Bibliography and Research: Bibliographical, library and systematic approaches to research at the graduate level in language and literature.

ENG 5018 AS-ENG 3(3,0) Literary Criticism: PR: Graduate standing or C.I. Historical survey of major critics from classical antiquity to the modern era.

ENG 2012 AS-ENG 3(3,0) English Literature I: PR: ENC 1102. Beowulf to 1786.

ENG 2021 AS-ENG 3(3,0) English Literature II: PR: ENC 1102. From 1798 to 1914.

ENC 3951H AS-ENG 3(3,0) Orlando Shakespeare Festival Honors: PR: ENC 1102. 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.


ENC 4220 AS-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, Shakespeare, Chapman, Lyly & others.

ENC 4230 AS-ENG 3(3,0) 18th Century Studies: PR: ENC 1102 and ENG 3014. Reading, analysis, and discussion of literature in English: 1660-1890. May be repeated for credit.

ENC 4240 AS-ENG 3(3,0) English Romantic Writers: PR: ENC 1102, ENC 1102 and ENG 3014. Study of English poets and essayists of the romantic period, such as Wordsworth, Coleridge, Hazlitt, Lamb, Byron, Shelley and Keats.

ENC 4253 AS-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.


ENC 4273 AS-ENG 3(3,0) Modern British Literature: PR: ENC 1102 and ENG 3014. Major writers of modern British literature.

ENC 4311 AS-ENG 3(3,0) Chaucer: PR: ENC 1102 and ENG 3014. The Canterbury Tales, Troilus and Criseyde, and other works.

ENC 4333 AS-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.

ENC 4341 AS-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.

ENG 5006 AS-ENG 3(3,0) British Literature: Medieval to Modern: PR: Graduate standing or consent of instructor. 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.

ENC 5237 AS-ENG 3(3,0) Eighteenth Century Studies: Reading, analysis, and discussion of literature in English: 1660-1880.

ENC 5250 AS-ENG 3(3,0) The Victorian Age: Poetry: PR: Graduate standing or C.I. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, Hardy, the Rossettis, Emily Bronte, and others.

ENC 5256 AS-ENG 3(3,0) Victorian Literature: PR: Graduate Standing or C.I. A study of the major prose works and selected poetry of British Victorian writers.

ENC 5335 AS-ENG 3(3,0) Studies in Shakespeare: PR: Senior standing or C.I. A selection of representative plays, with emphasis on Shakespeare's development as an artist: aesthetics of
dramatic literature.

ENL 5347 AS-ENG 3(3,0) The Age of Milton PR: 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.

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. Stresses material and energy balances. Covers air, water and land pollution. May be repeated for credit.

ENV 4112C ECS-CEE 3(2,2) Air Pollution Measurements Lab PR: Measurement of gaseous flow, isokinetic sampling, and pollutant quantification. Emphasis is placed on EPA methods.

ENV 4120 ECS-CEE 3(3,0) Air Pollution Control: PR: ENV 3001 and CWR 3021. Air resources engineering design, and operation of air pollution control systems.

ENV 4122C ECS-CEE 3(2,2) Air Pollution Control Design: Project course on design of air pollution control equipment and systems.

ENV 4300C ECS-CEE 3(3,0) Solid Waste Facility Design: PR: ENV 4341. Project course on design of a municipal solid waste landfill.

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.

ENV 4432 ECS-CEE 3(3,0) Potable Water Treatment: PR: ENV 3001 and CWR 3021. Detailed investigation of principles of design and operation of potable water treatment facilities. May be repeated for credit.

ENV 4531 ECS-CEE 3(3,0) Wastewater Treatment Processes: PR: ENV 3001 and CWR 3021. Detailed investigation of principles of design and operation of wastewater treatment facilities. May be repeated for credit.


ENV 4562C ECS-CEE 3(3,0) Environmental Engineering Systems Design: PR: ENV 4561, EES 4202C. Project course on design of water and wastewater treatment plants.

ENV 4563 ECS-CEE 3(3,0) Environmental Control Systems: PR: EGN 3343, 3373. CR: ENV 4561. Analysis and design of process control systems in environmental engineering applications including process dynamics, instrumentation, and control system configuration.

ENV 5071 ECS-CEE 3(3,0) Environmental Analysis of Transportation Systems: PR: CWR 3021, ENV 3001. Prediction and abatement of pollution from transportation sources. Analysis techniques and environment laws.

ENV 5116C ECS-CEE 3(2,3) Air Pollution Monitoring: PR: C.I. Air Pollution sampling techniques, equipment, and monitoring. Emphasis on theory and direct applications in air pollution monitoring.

ENV 5334 ECS-CEE 3(3,0) Characterization of Hazardous Waste Sites: PR: CWR 4101C and ENV 4341, or C.I. Practical and comprehensive methods of hazardous waste site characterization to determine site properties, contamination type, magnitude and risk, and remedial actions.

ENV 5335 ECS-CEE 3(3,0) Hazardous Waste Management: PR: ENV 3001 or C.I. Engineering planning and analysis associated with the handling, storage, treatment, transportation, and disposal of hazardous wastes.

ENV 5410 ECS-CEE 3(3,0) Drinking Water Treatment: PR: ENV 4561. Drinking water treatment using existing and newly developed processes. Fe, Mn, As, NO3, DBP3, SCCs and other contaminants using oxidation, membranes, ion exchange, precipitation, sorption, and other processes.

ENV 5505 ECS-CEE 3(3,0) Sludge Management Operations in Environmental Engineering: PR: ENV 4561. Theory and design of sludge management operations and processes in environmental engineering, including stabilization dewatering and ultimate disposal.


EPI 5335 ED-CFCS 3(3,0) Physical and Sociological Implications of Handicapping Conditions: Overview of physical and sociological factors which may contribute to delayed learning or physical impairments in the exceptional populations. Physical interventions and first aid practices are examined.

ESE 3940 ED-TLP 3-16(0,3-1) Internship I: PR: ESE 4323 and C.I. Student teaching in a secondary school under the supervision of a certified classroom teacher.

ESE 4943 ED-TLP 7-12(0,35) Internship II: PR: ESE 3940 or EDE 3942. Student teaching in a secondary school under the direction of a certified classroom teacher. Scheduled concurrent seminars.

ESE 5214 ED-TLP 3(3,0) Secondary School Curriculum Improvement I: PR: Regular Certificate or C.I. Secondary School self-studies for curriculum projects, accreditation reports, or staff development.


ESE 5234 ECS-IEMS 3(3,0) Quality Engineering: PR: STA 3032. Basic concepts and applications of quality control; applications of statistics in industrial research; design of quality assurance systems; reliability engineering.

ESE 5312 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.

ESE 5316 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.

ESE 5326 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 (DOE), software reliability, reliability in design, and electronic systems reliability.

ESE 5315 ECS-IEMS 3(3,0) Research and Professional Practice: PR: MAP 2302; ESI 5219 or equivalent; and C.I. Research foundations for IE/OR modeling, including constructive analysis of published research, methods of proof, research foundations in decision theory, optimization, and related areas.

ESE 5316 ECS-IEMS 3(3,0) Operations Research: PR: STA 3032. Methods of operations research, including formulation for models and derivation of solutions; linear programming, network models, queuing theory, simulation, and nonlinear optimization techniques.

ESE 5359 ECS-IEMS 3(3,0) Risk Assessment and Management: PR: ESI 5219 or STA 3032. Problems and complexities involved in risk assessment and management. Selected methodologies are illustrated through realistic applications in engineering and the sciences.

ESE 5419 ECS-IEMS 3(2,2) Engineering Applications of Linear and Nonlinear Optimization: PR: ESI 4132 or ESI 5316. Course covers linear and nonlinear optimization applications in production planning, staffing, engineering design, distribution networks, and other engineering areas. Focuses on practicing OR analysts.

ESE 5451 ECS-IEMS 3(3,0) Network Based Project Planning, Scheduling, and Control: PR: ESI 4312 or ESI 5316. Probabilistic and deterministic approaches for planning, scheduling, and controlling complex, large-scale projects. PERT, CPM, resource leveling, risk analysis.

ESE 5531 ECS-IEMS 3(3,0) Discrete Systems Simulation: PR: STA 3032. Methods for performing discrete systems simulation, including network modeling, will be treated.

EST 3222 ECS-ENT 3(3,0) Photronics Technology: PR: PHY 2053C, PHY 2054C, MAP 3401, MAC 2252 and MAC 2253. Course will introduce engineering technology students to the field of photronics. Light properties, optics, lasers, systems.

EST 3543C ECS-ENT 3(2,2) Programmable Logic Applications and Device Integration: PR: MAC 1105, CET 2123C. Builds on knowledge of logic fundamentals programming technologies, integrated circuits, and number systems to operate and test systems using programmable logic protocols.

EST 4502 ECS-ENT 4(3,2) Metrology and Instrumentation: PR: EGE 3541 or equivalent, EET 3095C or equivalent, C.I. Metrology and Instrumentation. Overview of basic concepts and terminology of metrology and instrumentation. Theory, procedures and techniques essential to industrial measurement and laboratory practice are covered.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
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<tbody>
<tr>
<td>ETI 4206</td>
<td>ECS-ENT</td>
<td>(3,0) Construction Estimating: PR: MAC 1105, MAC 1114, EGN 1111C or equivalent, ETI 4241C, ETI 4242. Techniques of making estimates and computations of materials, labor, equipment, overhead costs and profits. Software packages are utilized.</td>
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<tr>
<td>ETI 4241C</td>
<td>ECS-ENT</td>
<td>(3,2,2) Construction Materials and Methods: CR: ETI 3541. Construction principles, details, materials and methods used as related to the construction of buildings.</td>
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<tr>
<td>ETI 4242</td>
<td>ECS-ENT</td>
<td>(3,0) Construction Contracts and Specifications: The role of construction contracts, architectural specifications, product specifications, industry standards and building codes in the process of building construction.</td>
</tr>
<tr>
<td>ETD 3350C</td>
<td>ECS-ENT</td>
<td>(3,2,2) Applied CADD: CR: Engineering Drawing and some CADD background. This course in computer-aided drafting/design provides the student with the opportunity to approach detailed and intricate drafting/design problems from a computer perspective.</td>
</tr>
<tr>
<td>ETG 3533C</td>
<td>ECS-ENT</td>
<td>(4,3,2) Applied Engineering Strength of Materials: PR: MAC 1105, MAC 1114, ETG 3541, PHY 2505C, junior standing; CR: MAC 2253 or MAC 2311. Relationship between external forces and action of members of a structure. Topics include stress, shear, moment, deflections, columns, connections, and Mohr’s circle. May be repeated for credit.</td>
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<tr>
<td>ETG 3541</td>
<td>ECS-ENT</td>
<td>(3,0) Applied Mechanics: PR: MAC 1105 and MAC 1114 and PHY 2055C, CSD-1160, ETM 4512C, ETG 3533C or C.I. Engineering Technology senior within 18 semester hours of graduation. Supervised individual or group projects involving project definition, planning, development, testing, and evaluation. Progress reports and a final oral presentation and written report are required.</td>
</tr>
<tr>
<td>ETI 3418C</td>
<td>ECS-ENT</td>
<td>(3,0) Computer Numerical Controls - Machining: Applications: PR: MAC 1105 and junior standing. Theory of methods and concepts for machining, computer numerical controls/programs, types of operations, cutting tools, machine tools, and electrical discharge machines. May be repeated for credit.</td>
</tr>
<tr>
<td>ETI 3421</td>
<td>ECS-ENT</td>
<td>(3,0) Materials and Processes: 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.</td>
</tr>
<tr>
<td>ETI 3651C</td>
<td>ECS-ENT</td>
<td>(3,2,2) Computer Applications: PR: Junior standing or C.I. Complete and comprehensive use of Microsoft Office software applications for specific engineering uses. Probability and statistics as related to industrial applications.</td>
</tr>
<tr>
<td>ETI 3671</td>
<td>ECS-ENT</td>
<td>(2,0,0) Technical Economic Analysis: PR: MAC 1105 or equivalent, Junior standing. Analysis of cost elements in technical operations. Basis for comparison of alternatives.</td>
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<tr>
<td>ETI 3690</td>
<td>ECS-ENT</td>
<td>(3,0) Technical Sales: PR: Junior standing or C.I. Application of technical knowledge to sales and service. Relationship of technical sales organization to production, customers, and competitors.</td>
</tr>
<tr>
<td>ETI 4150</td>
<td>ECS-ENT</td>
<td>(3,0) Spacecraft Quality Assurance and Testing: PR: PH-2053C. Quality assurance, reliability, and testing of space hardware and software, with the examination of designing, manufacturing, testing, and operation.</td>
</tr>
<tr>
<td>ETI 4186</td>
<td>ECS-ENT</td>
<td>(3,0) Applied Reliability: PR: ETI 3116. Practical application of reliability concepts and analysis applicable to the design, production and logistics phases of systems and system components.</td>
</tr>
<tr>
<td>ETI 4205</td>
<td>ECS-ENT</td>
<td>(3,0) Applied Logistics: PR: ETI 3116 or C.I. Introduction to logistics. Emphasis on practical applications. Includes systems engineering, costs, systems effectiveness, reliability, maintainability, system functional analysis, logistics support analysis, life cycle cost analysis.</td>
</tr>
<tr>
<td>ETI 4381</td>
<td>ECS-ENT</td>
<td>(3,0) Ground System Design: PR: PHYS 2503C. 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.</td>
</tr>
<tr>
<td>ETI 4382C</td>
<td>ECS-ENT</td>
<td>(1,4) Launch Processing Technology: CR: ETI 4350 or PR: ETI 4350 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.</td>
</tr>
<tr>
<td>ETI 4448</td>
<td>ECS-ENT</td>
<td>(3,0) Applied Project Management: 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. May be repeated for credit.</td>
</tr>
<tr>
<td>ETI 4635</td>
<td>ECS-ENT</td>
<td>(3,0) Technical Communication: PR: MAC 1105 and 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 services may be repeated for credit.</td>
</tr>
<tr>
<td>ETI 4640</td>
<td>ECS-ENT</td>
<td>(3,0) Process Planning and Work Measurement: PR: MAC 1105 and junior standing. Scheduling techniques (PERT), (CPM), are presented. Time Study Methods, Work Sampling and MDM are covered. May be repeated for credit.</td>
</tr>
<tr>
<td>ETI 4661C</td>
<td>ECS-ENT</td>
<td>(2,2,2) Applied Facilities Planning and Design: PR: ETI 3421. Engineering design and senior standing. The design of manufacturing facilities and material handling systems.</td>
</tr>
<tr>
<td>ETI 4700</td>
<td>ECS-ENT</td>
<td>(3,0) Occupational Safety: PR: Junior standing. Accident prevention and the operation of an industrial safety program. Basic requirements of the Occupational Safety and Health Act standards.</td>
</tr>
<tr>
<td>ETI 4835</td>
<td>ECS-ENT</td>
<td>(3,0) Rocket Propulsion Technology: PR: PHY 2505C, Calculus I, II, C.I. Principles of rocketry; solid, liquid and hybrid rocket stages; specific impulse computation; fuel and thrust computation; nozzle cone, and nozzle designs; ignition mechanisms.</td>
</tr>
<tr>
<td>ETI 4836</td>
<td>ECS-ENT</td>
<td>(3,0) Space Systems Technology: PR: PHY 2503C. Applied space technology, design of space systems, space environment, flight dynamics, atmospheric drag, power supply, communications technology. May be repeated for credit.</td>
</tr>
<tr>
<td>ETI 4837</td>
<td>ECS-ENT</td>
<td>(3,0) Technology of Small Space Payloads: PR: PHYS 2503C, Calculus I, II, C.I. Spacecraft design and analysis; relationship 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.</td>
</tr>
<tr>
<td>ETI 4839</td>
<td>ECS-ENT</td>
<td>(3,0) Space Electronics Technology: PR: PHY 2503C, Calculus I, II, C.I. Introduction to electronic design and analysis; concepts of analog and digital systems; design and programming of control systems; design and control of electronic and electrical systems. May be repeated for credit.</td>
</tr>
<tr>
<td>ETM 4232C</td>
<td>ECS-ENT</td>
<td>(4,3,2) Applied Heat Transfer: 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.</td>
</tr>
<tr>
<td>ETM 4396C</td>
<td>ECS-ENT</td>
<td>(3,2,2) Applied Fluid Mechanics: PR: MAC 2253 or MAC 2311. Principles of fluid mechanics, continuity of mass, impulse and momentum principles, conservation of energy, flow of fluid in pipes, etc.</td>
</tr>
<tr>
<td>ETM 4403C</td>
<td>ECS-ENT</td>
<td>(3,2,2) Applied Kinematics: PR: ETG 3541 and Engineering Drawing. Analysis and design of machine elements and mechanisms involving velocities and accelerations of components, linkages, gears, and cams.</td>
</tr>
<tr>
<td>ETM 4755</td>
<td>ECS-ENT</td>
<td>(4,4,0) Applied Air Conditioning: PR: ETM 4331C. Analysis...</td>
</tr>
</tbody>
</table>
of body comfort, psychometrics, heating and cooling load, specification of air conditioning systems, air distribution systems and system piping requirements.

EUH 2000 AS-HIST 3(3,0) Western Civilization I A survey of western civilization from ancient to 1648.

EUH 2000H AS-HIST 3(3,0) Honors Western Civilization I A survey of western civilization from ancient to 1648. Honors-level content.


EUH 2001H AS-HIST 3(3,0) Honors Western Civilization II A survey of western civilization from 1648 to present. May be taken before EUH 2000. Honors-level content.

EUH 3122 AS-HIST 3(3,0) Medieval Society and Civilization PR: EUH 2000 and 2001 or C.I.

EUH 3142 AS-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.

EUH 3235 AS-HIST 3(3,0) Romanticism and Realism PR: EUH 2000 and 2001 or C.I. Napoleon and nationalism; new ideas; conservation; liberalism, romanticism, republicanism and socialism; urbanization, technology and mass culture, religious decline; Realpolitik, racism, imperialism, and militarism.

EUH 3242 AS-HIST 3(3,0) Modern Europe and the First World War A survey of the impact of the democratic institutions, education, transportation, housing, health, mass communicati, entertainment, women, and warfare.

EUH 3281 AS-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.

EUH 3315 AS-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, 1700-1939.

EUH 3411 AS-HIST 3(3,0) Ancient Rome PR: EUH 2000 and 2001 or C.I. Romans and their contributions to Western Civilization. Covers traditions of Roman Republic, Carthaginian Wars, Imperial Period.

EUH 3431 AS-HIST 3(3,0) History of Modern Italy PR: EUH 2001. The history of modern Italy from the origins of national unification through the post-World War II era.

EUH 3451 AS-HIST 3(3,0) History of Modern France PR: EUH 2001, EUH 3242 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.

EUH 3651 AS-HIST 3(3,0) War and Society PR: EUH 2003. Evolution of weapons, tactics, strategy; role, social status, recruitment of soldiers; influence of military on governments; and international efforts to preserve peace.

EUH 4284 AS-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.


EUH 4465 AS-HIST 3(3,0) Hitler's Third Reich PR: EUH 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.

EUH 4500 AS-HIST 3(3,0) English History to 1485 PR: EUH 2000 and 2001 or C.I.

EUH 4501 AS-HIST 3(3,0) English History 1485-1603 PR: EUH 2000 and 2001 or C.I.

EUH 4502 AS-HIST 3(3,0) British History: 1815-Present PR: EUH 2000 and 2001 or C.I.

EUH 4571 AS-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.

EUH 4574 AS-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.

EUH 4576 AS-HIST 3(3,0) History of Russia in the 20th Century PR: EUH 2000 and 2001 or C.I. World War I and Revolution; Lenin, Stalinist Period, WWII, The Cold War, Collapse of Soviet Union, the New Russia.

EUH 4582 AS-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.

EUH 4610 AS-HIST 3(3,0) Women in European Society: From Medieval to Modern PR: Senior standing or C.I. This course examines the changing situation of women in Europe from the Middle Ages to the twentieth century.

EUH 4620 AS-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.

EUH 4621 AS-HIST 3(3,0) War and International Politics in Europe, 1914 to Present PR: EUH 2000 and 2001 or C.I. The relationship of the European Great Power from the outbreak of WWI to the present.

EUH 4674 AS-HIST 3(3,0) Sport and Society in the Ancient World PR: EUH 2000, EUH 2001 or WOH 2012, WOH 2022. A comparison of the original form of the Olympic Games (and ancient notions of sport) to their modern counterparts.

EUH 5247 AS-HIST 3(3,0) Colloquium in Europe from 1919-1939: Reading and class discussion of the literature on selected topics in European history between 1919 and 1939.

EUH 5285 AS-HIST 3(3,0) Colloquium in Europe Since World War II: Reading and class discussion of the literature on selected topics in European history since WWII.

EUH 5371 AS-HIST 3(3,0) Colloquium in Spanish History: Reading and class discussion of the literature on selected topics in Spanish history.

EUH 5546 AS-HIST 3(3,0) Colloquium: British History PR: Graduate status. 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.

EUH 5579 AS-HIST 3(3,0) Colloquium in Soviet Russia PR: Senior standing or C.I. Reading and class discussion of the literature on selected topics in Russian history, 1911-present.

EUH 5595 AS-HIST 3(3,0) Colloquium in Czarist Russia PR: Senior standing or graduate status. Selected topics on the literature of Russia under the Czars prior to 1917.

EUH 5608 AS-HIST 3(3,0) Colloquium in Modern Russia PR: Senior standing or C.I. Reading and class discussion of the literature on selected topics of European intellectual history.

EVR 5930 AS-BIOL 1(1,0) Seminar in Conservation Issues PR: C.I. Contemporary topics stressing a broad base of conservation issues will be the focus of this seminar series. May be repeated for credit, as course content will differ.

EVT 3062 ED-TLP 3(3,0) Professional Role of the Vocational Teacher: PR: EVT 3371 or C.I.

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.

EVT 3365 ED-TLP 3(3,0) General Methods/Testing and Evaluation in Vocational Education: General teaching methods, testing and evaluation. Techniques specific to Vocational Education and Industry Training.

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.

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 laboratory, and involvement in VICA.

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.

EVT 4065 ED-TLP 4(4,0) Principles and Practices of Vocational Education: PR: EVT 3365 or C.I. Study of the history, structure, and current status of vocational education. Achievement of competency in applying principles of vocational education to vocational student organiz-
tions, advisory committees, and economic development.

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.

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.

EVT 5260 ED-TLP 2-4(2-4) 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.

EVT 5561 ED-TLP 2-3(2-3) 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.

EVT 5817 ED-TLP 2-4(2-4) 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.


EXP 4507C AS-PSYCH 3(1,4) Advanced Human Memory and Cognition: PR: or CR: EXP 3513. In-depth coverage of experimental research on human memory and cognition.

EXP 5057 AS-PSYCH 3(3,0) Human Factors and Aging: PR: Post-bac, Graduate status, 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 and task design.

EXP 5208 AS-PSYCH 3(3,0) Sensation and Perception: PR: C.I. A study involving human information processing with regard to physical and psychological variables in sensory and perceptual phenomena.

EXP 5256 AS-PSYCH 3(3,0) Human Factors I: Survey of human factors literature, introduction to topics including human capabilities and human interfaces with human-machine systems.

EXP 5445 AS-PSYCH 3(3,0) Psychology of Learning and Motivation: PR: DEP 5057 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.

FIL 1001 AS-FILM 3(3,0) Cinema Survey: Introductory course that focuses on different approaches to studying cinema.

FIL 1001H AS-FILM 3(3,0) Honors Cinema Survey: PR: Permission of Honors. Introductory course that focuses on different approaches to studying cinema. Honors-level content.

FIL 1007 AS-FILM 3(3,0) Foundations of Storytelling: Introduction of dramatic and cinematic narrative structures, both plot and character, from an historical and cultural perspective.

FIL 1008 AS-FILM 3(3,0) Cinematic Expression/Aesthetics: Analysis and practice of aesthetic principles essential in filmmaking, including composition, moving graphics, image design, lighting styles.

FIL 1009 AS-FILM 3(3,0) Cinematic Expression for Majors: PR: FIL 1007 of FIL 1XXX (Foundations of Story for Majors). Analysis and practice of aesthetic principles essential in filmmaking, including composition, moving graphics, image design, and lighting styles.

FIL 1226 AS-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.

FIL 2107 AS-FILM 3(3,0) Script Analysis: CR: ENC 1101. Introduction to dramatic and visual storytelling techniques used in traditional and non-traditional filmmaking and screenwriting.

FIL 2200 AS-FILM 3(3,0) Cinematography I: Concepts and tools of cinematography and lighting.

FIL 2201 AS-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.

FIL 2220 AS-FILM 3(3,0) Directing I: PR: Film Major, FIL 1008, FIL 3124, FIL 3201C. Introduction to processes and techniques of directing.

FIL 2274C AS-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.

FIL 2400 AS-FILM 3(2,2) History of Motion Pictures: The history of motion pictures as art and industry; from 1895 to the present.

FIL 3006 AS-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.

FIL 3102 AS-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.

FIL 3106C AS-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.

FIL 3124 AS-FILM 3(3,0) Short Script I: PR: Film majors or film minors. Rudiments of writing the short script. Analysis of script models and examination of differences between long and short forms. Writing scripts for workshops.

FIL 3125 AS-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.

FIL 3201C AS-FILM 3(2,4) Introduction to Film Production: PR: Film majors or minors. Introduction to production utilizing film equipment. Basic technical and aesthetic aspects of production.

FIL 3211 AS-FILM 3(3,0) Sound Design I: PR: Film or Digital Media major. Technical aspects of production and post-production sound recording, editing, and mixing.


FIL 3286C AS-ART 3(2,4) Introduction to Animation: PR: Animation majors only, and a satisfactory portfolio review or C.I. Introductory computer graphic techniques utilizing microcomputer systems. Techniques include basic paint systems, color cycling and 2D animation.

FIL 3287C AS-ART 3(2,4) Intermediate Animation: PR: Animation majors only, FIL 3286C, and a satisfactory portfolio review or C.I. Focus on 3D computer modeling and animation systems. Hands-on exercise on the type of high-end animation systems used in the film industry. May be repeated for credit.

FIL 3300C AS-FILM 3(3,1) Film Documentary: PR: Film majors or Cinema Studies major, FIL 3201C or 3XXX (Film Production Tech Workshop). The uses and analysis of the non-fiction film.

FIL 3309 AS-FILM 3(3,1) Women in Film: PR: Junior standing. A critical examination of how cinematic images of women affect cultural perceptions and an overview of historically significant women filmmakers and related sociopolitical issues.

FIL 3401 AS-FILM 3(3,0) Film History I: PR: Film majors and FIL 2107. Examines film history in a depth of detail and with rigor that is appropriate for majors in the subject. This course covers cinema history from 1895 to 1945.

FIL 3402 AS-FILM 3(3,0) Film History II: PR: Film majors and FIL 3401. Film history in a depth of detail and with rigor that is appropriate for majors in the subject. This course covers from 1946 to the present.

FIL 3410 AS-ART 3(3,0) History of Animated Film: PR: Cinema Studies, Art, Animation or Digital Media major. Evolution of animation from its roots in Art, Theatre, and Novelty Inventions to its rise as a cinematic force of popular storytelling.


FIL 3503C AS-FILM 3(3,1) Film Theory and Criticism I: PR: FIL 2107 and FIL or Film Studies major. Major film theories to the present.

FIL 3504C AS-FILM 3(3,1) Film Theory and Criticism II: PR: Film majors or
minors only, FIL 2400. Major film theories from Second World War period to present.

FIL 3510 AS-FILM 3(3,0) World Cinema Traditions: PR: Cinema Studies or Film major, FIL 3504C. The relationship among film, history, and culture in selected Asian, African, Latin American, and Middle Eastern countries.

FIL 3520 AS-LANG 3(3,0) Italian Film: This course attempts to stimulate and/or increase the interest of students in Italian cinema as an art form with the director playing the key role. Films by most outstanding Italian movie directors will be analyzed from a social, economic, and historical point of view.

FIL 3521 AS-LANG 3(3,0) French Film: The study of French cinema as an art form and the key role of the director. Films are analyzed from structural, social, economical, and historical perspectives with attention to their relationship with French literature. Taught in English.

FIL 3522 AS-LANG 3(3,0) German Film: PR: C.I. Exploration of the form and context of German film during different time periods in relation to other aspects of culture and to sociopolitical structures at the time.


FIL 3625 AS-FILM 3(3,0) Interactive Entertainment: PR: FIL 3201C. Ways to apply diverse skills of film making to digital media, non-linear story telling, virtual reality, video games and non-traditional education and military simulation.

FIL 3922 AS-FILM 1(1,1) Film Colloquium: PR: Film majors only. A series of lectures, films and forums designed for students in the film program. The class is team taught by film faculty and guest speakers from the film industry. Course may be repeated. Graded S/U.

FIL 4103 AS-FILM 3(3,0) Scripting: PR: FIL 3107. The process of adapting scripts from other sources. The investigation of the legacies of adaptation, analysis of existing models, and written adaptations.

FIL 4111C AS-FILM 3(2,3) Feature/TV Writing I: PR: FIL 3106C. Writing workshop, examination of mythic storytelling, and ethics of scripting.

FIL 4112C AS-FILM 3(2,3) Feature/TV Writing II: PR: Film major, FIL 4111C. Advanced writing workshops, principles and methods of adaptation and reader's coverage.

FIL 4113C AS-FILM 3(2,3) Interactive Writing I: PR: Film major, FIL 3106C. Writing workshop for experienced scriptwriters, cold readings, preparing calling card script, marketing scripts and funding sources.

FIL 4114C AS-FILM 3(3,2) Interactive Writing II: PR: Film major and FIL 4113C. Advanced writing and development of short interactive narratives as well as examination of non-traditional structures as applied to interactive writing.

FIL 4127C AS-FILM 3(2,2) Motion Picture Genre: PR: FIL 2400. Analysis and evaluation of films, including their major genres, directors, styles, and periods.

FIL 4202C AS-FILM 3(2,4) Intermediate Film Production: PR: Film major, FIL 3201C. Advanced exploration of the aesthetic and technical facets of filmmaking.

FIL 4203C AS-FILM 3(2,4) Capstone I: PR: FIL 4113C, FIL 3625 or FIL 4228. Intensive tutorial guidance, instruction and evaluation of final film projects from initial concept through production. May be repeated for credit. Graded S/U.

FIL 4207 AS-FILM 3(3,0) Episodic Production: PR: Film or Animation Majors. Episodic film production techniques.

FIL 4208 AS-FILM 3(3,0) Directing II: PR: Film major, FIL 4202C, FIL 2220. Principles and practice in directing narrative and/or documentary motion pictures.

FIL 4210C AS-FILM 3(2,4) Cinematography II: PR: Film major, FIL 3312C, FIL 2200. Advanced principles and practices of cinematography.

FIL 4211C AS-FILM 3(1,3) Capstone II: PR: Film major, FIL 4230C. Intensive tutorial guidance, instruction and evaluation of final film projects in post production.

FIL 4212 AS-FILM 3(0,4) Sound Design: PR: FIL 4207, FIL 4202C. Post-production sound for films and video, including voice over music, music, sound effects, sound design, and automated dialogue replacement. Exercises will be edited and mixed on a computer work station.

FIL 4213 AS-FILM 3(3,0) Sound Design III: PR: FIL 4212. Advanced aspects of sound mixing and sound editing using advanced protocols and digital format.

FIL 4213C AS-FILM 3(3,2) Editing II: PR: Film major and FIL 2274C. Theory, techniques and practices in picture editing.

FIL 4223 AS-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.

FIL 4228 AS-FILM 3(3,0) Directing III: PR: FIL 4220, FIL 4208. Advanced processes and techniques of directing.

FIL 4262C AS-FILM 4(3,2) Special Problems in Film Design: A series of exercises in craft, techniques, and design for film production, including animation.

FIL 4283C AS-ART 3(2,4) Intermediate Cel Animation: PR: Animation majors only, and a satisfactory portfolio review or C.I. Production from storyboard to composite print. May be repeated for credit.

FIL 4284C AS-FILM 3(3,1) Non-Linear Editing: PR: Film major and FIL 3106C. Provide basic working knowledge of AVID editing system, to edit assigned projects, give basic understanding of editorial styles and techniques in film storytelling.

FIL 4288C AS-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.

FIL 4289C AS-ART 3(2,4) 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, budget, client relations, and post-production. May be repeated for credit.

FIN 4411 AS-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.

FIN 4504C AS-ART 3(2,2) Genre Writing: PR: Film major, FIL 3503C. Advanced screenwriting practice in selected genres, including comedy, humor, western, crime, etc.

FIN 4602 AS-FILM 3(3,0) Film Business: PR: Film major, FIL 4207, FIL 4202C. 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.

FIN 4604 AS-ART 3(3,0) The Film Producer: PR: Film major or Cinema Studies major, and FIL 4208. The role of the producer is examined in the context of theatrical film.

FIN 4607 AS-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.

FIN 5609 AS-FILM 3(3,0) Film and Internet Business: PR: C.I. Survey of the business of financing and distributing films. Explores various, including feature films, short films, television documents and the Internet.

FIN 2104 BA-FIN 3(3,0) Personal Finance: PR: FIN 2101, FIN 3403 with honors level content.

FIN 3303 BA-FIN 3(3,0) Financial Markets: PR: FIN 3403. The role of short and long-term financial markets and financial institutions in capital formation and allocation. Theories and mathematics of interest rates.

FIN 3403 BA-FIN 3(3,0) Business Finance: PR: ACG 2011, ACG 2071, ECO 2013 and ECO 2023. With the balance sheet as a reference point, this course provides an introduction and overview of the acquisition, financing, and management of business assets.

FIN 3403H BA-FIN 3(3,0) Business Finance Honors: PR: ACG 3201, ACG 3271, ECO 3203, admission to the Honors Program. Same as FIN 3403 with honors level content.

FIN 3414 BA-FIN 3(3,0) Intermediate Corporate Finance: PR: FIN 3403. In-depth study of the principles of corporate finance. Investment, financing, and capital decisions are examined.

FIN 3470 BA-FIN 3(3,0) Financial Statement Analysis and Small Business Finance: PR: FIN 3403. Emphasis on analytical financial techniques suited to address issues faced by small business. Includes topics on obtaining financing for small businesses.


FIN 4313 BA-FIN 3(3,0) Management of Financial Institutions: PR: FIN
3303 and FIN 3403. Analysis of management policies of financial institutions, including assets liability, and capital management. The economics and regulatory influence on competition is considered.

FIN 4324 BA-FIN 3(3,0) Commercial Bank Management: PR: FIN 3303. Analysis of the interactions of commercial banking policies and an analysis of current approaches to managing specific bank products.

FIN 4424 BA-FIN 3(3,0) Advanced Topics in Financial Management: PR: FIN 3414 and FIN 4453. Advanced study in financial management. Topics include capital budgeting, financial structure, and capital decisions. Case studies used extensively.

FIN 4453 BA-FIN 3(3,0) Financial Models: PR: FIN 3403, FIN 3414, and FIN 3504. Mathematical models applied specifically to financial problems, including those models suitable for representation and solutions on computers.

FIN 4514 BA-FIN 3(3,0) Portfolio Analysis and Management: PR: FIN 3303 and FIN 3504. Portfolio and capital market theory in the determination of rational investment policies. Risk analysis, portfolio analysis, and evaluation techniques.

FIN 4521C BA-FIN 4(3,1) Applied Portfolio Management 1: PR: FIN 3403, FIN 3504, and CI. 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.

FIN 4522C BA-FIN 4(3,1) Applied Portfolio Management 2: PR: FIN 40XX (Applied Portfolio Management 1), and CI. For UCF Student Managed Portfolio program participants. Rigorous coverage of advanced portfolio management topics, including uses of derivatives, tax issues, and style investing.

FIN 4533 BA-FIN 3(3,0) Speculative Financial Markets: PR: FIN 3303 and FIN 3504. Study of options, futures, forward, and other speculative markets. Investments traded in these markets are examined analytically. Pricing and hedging models are considered.

FIN 4604 BA-FIN 3(3,0) International Financial Management: PR: FIN 3504. Analysis of the foreign financial methods and investment, currency futures market, capital budgeting, cash management, examination of Eurocurrency market and international bond markets.

FIN 4630 BA-FIN 3(3,0) Senior Financial Consulting I: PR: FIN 3403, FIN 3303, CR: FIN 3414, and 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.

FIN 4731 BA-FIN 3(3,0) Senior Financial Consulting II: PR: 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 a two semester course sequence. Students must register for both semesters.

FIN 4941 BA-FIN 3(0,3) Finance Internship: PR: Finance Major; consent of department chair. Supervised finance-related work experience in a pre-approved sponsoring organization. See department for information/application. Graded S/U.

FIN 5405 BA-FIN 3(3,0) Financial Concepts: PR: Acceptance into the graduate program, ACG 5005 and ECO 5005 and ECO 5415 or equivalents. Effects of financial decisions upon the firm, interrelationships of these effects and alternatives available to financial managers in making these financial decisions.

FIN 5407 BA-FIN 1.5(1,5) Financial Foundations: PR: Acceptance to Graduate Study. ACG 5005 and ECO 5005. Effects of financial decisions upon the firm, interrelationships of these effects and alternatives available to financial managers in making these financial decisions.

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 CI. A cross-cultural field experience which includes cultural and language immersion. Theoretical and applied knowledge of culture and language diversity.

FLE 4290 ED-TLP 2(2,0) Technology in the Foreign Language Classroom: PR: EME 2040, and 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.

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-6 classroom.

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.

FLE 5335 ED-TLP 3(3,0) Foreign Language Methods at the Elementary Level: PR: C.I. or FLE 4333 or FLE 5870, EDG 4323 or EDG 6256, 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-6 classroom. May be repeated for credit.

FLE 5870 AS-LANG 3(3,0) Methods of Teaching Foreign Languages: PR: Graduate 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.

FLE 5875 AS-LANG 3(3,0) Computer Application in Teaching Foreign Languages: PR: Graduate Standing or C.I. Survey, analysis, and evaluation of computer software and Internet materials for teaching foreign languages.

FOL 3730 AS-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 Arabic and Provençal.

FRE 1005 AS-LANG 1(1,0) French Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, French pronunciation, and opera librettos.

FRE 1120 AS-LANG 4(4,1) Elementary French Language and Civilization I: Introduces the student to French culture through the major language skills: listening, speaking, reading, and writing. Open only to students with no experience in the language.

FRE 1121 AS-LANG 4(4,1) Elementary French Language and Civilization II: PR: FRE 1120 or experience with this language. Continuation of FRE 1120.

FRE 2200 AS-LANG 3(3,1) Intermediate French Language and Civilization I: PR: FRE 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

FRE 2201 AS-LANG 3(3,1) Intermediate French Language and Civilization II: PR: FRE 2200 or equivalent. Continuation of FRE 2200 with emphasis on French civilization.

FRE 2240 AS-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.


FRE 3300 AS-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.

FRE 3410 AS-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.

FRE 3420 AS-LANG 3(3,0) French Composition: PR: FRE 2201 or equivalent. Development of skills in composition.

FRE 3423 AS-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.

FRE 3440 AS-LANG 3(3,0) Business French I: PR: Three semesters of French language. Introduces vocabulary and terminology in various French business activities, as well as standards, procedures, and practices of the French business world.

FRE 3441 AS-LANG 3(3,0) Business French II: PR: FRE 3440 or C.I. Introduction to French business language and practices.

FRE 3760 AS-LANG 3(3,0) Advanced French Oral Communication: PR: FRE 2201 or equivalent. Vocabulary building with systematic training in diction and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues.

FRE 3780 AS-LANG 3(3,0) French Phonetics and Diction: French phonology, with emphasis on phonetic groupings.

FRE 4421 AS-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.

FRE 4422 AS-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.

FRE 4471 AS-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.

FRE 4500 AS-LANG 3 (3,0)
French Civilization and Culture: PR: FRE 3420. A survey analyzing development of key elements of French life: its historical, artistic, intellectual, scientific, and spiritual contributions to the world via readings, lectures, films, and other media. Conducted in French.

FRE 4503 AS-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.

FRE 4782 AS-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.

FRT 4552 AS-LANG 3 (3,0)
Structural Analysis of Beckett's Watt: PR: ENC 1102. An intense study of textual criticism and explication of linguistic analysis of literature with the primary focus on the novel. Course will be taught in English.

FRW 3100 AS-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.

FRW 3101 AS-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.

FRW 3370 AS-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.

FRW 3374 AS-LANG 3 (3,0)
The French Literature of Canada: PR: FRE 2201 or equivalent. A survey of the French literature of Canada from the late 19th century to the present, with particular emphasis on the novel and short story.

FRW 3752 AS-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.

FRW 3770 AS-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.

FRW 4281 AS-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 Bayn, Beckett, Butoy, Camus, Maupassant, Malraux and Sarraute.

FRW 4310 AS-LANG 3 (3,0)
Seventeenth Century French Theatre: PR: FRW 3100. Commeil, Racine, and Moliere. A study of the lives and principal works of the authors.

FRW 4324 AS-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 WWll, such as the works of Beckett, Camus, Claudel, Claudin, Ionesco, and Sarre; different literary approaches will also be used.

FRW 4440 AS-LANG 3 (3,0)

FRW 4532 AS-LANG 3 (3,0)

FRW 4552 AS-LANG 3 (3,0)

FRW 4820 AS-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.

FSS 2221C UCF-HOSP 3 (3,1)
Quantity Food Preparation: Basic principles of food and beverage preparation, service, and menu development.

FSS 3203 UCF-HOSP 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.

FSS 3124 UCF-HOSP 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.

FSS 3232C UCF-HOSP 3 (3,1)
Intermediate Techniques of Food Production: PR: HFT 4250C. An advanced food production course which provides the student the opportunity to develop skills in pantry, gard manager, garnishing, and convenience foods and services. Laboratory class.

FSS 4135 UCF-HOSP 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.

FSS 4286C UCF-HOSP 3 (3,1)
Catering and Banquet Organization: PR: FSS 2221C and junior standing or CI. 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.

GEA 4206 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.

GEA 1200 ECS-CEE 1 (0,2)

GEA 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.

GEA 2370H ECS-CEE 3 (3,0)
Resources Geography (Honors): Analysis of human management of global resources and the resulting impact on the world's environment.

GEO 3151C AS-LS 4 (2,4)
GIS for Environmental Studies: PR: CGS 1060C, BSC 2101C. Use of geographic information systems (GIS) for understanding spatial environmental data.

GEO 3470 AS-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.

GEO 4131C ECS-CEE 3 (2,2)
Remote Sensing of the Environment: PR: GEO 1200 or C.I. Interpretation and application of remote sensor imagery to physical, economic, and urban analysis.
C.I. Practical use of the language, leading toward fluency in the language. The influences they had on culture and daily life.

GER 1120 AS-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.

GER 1121 AS-LANG 4(4,1) Elementary German Language and Civilization II: PR: GER 1120 or equivalent. Continuation of GER 1120.

GER 1130H AS-LANG 4(4,1) Honors 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. Honors level content.

GER 1131H AS-LANG 4(4,1) Honors Elementary German Language and Civilization II: PR: GER 1130H or equivalent. Continuation of GER 1130H, with honors-level content.

GER 2200 AS-LANG 3(3,1) Intermediate German Language and Civilization I: PR: GER 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

GER 2201 AS-LANG 3(3,1) Intermediate German Language and Civilization II: PR: GER 2200 or equivalent. Continuation of GER 2200 with emphasis on German civilization.

GER 2210 AS-LANG 3(3,0) Intensive German Conversation: PR: GER 2211 or C.I. Practical use of the language, leading toward fluency and correctness in speaking.

GER 2240 AS-LANG 3(3,0) German Conversation: PR: GER 2201 or equivalent. Development of skills in conversation and comprehension through practice.

GER 2270 AS-LANG 6(6,0) Intermediate German Study Abroad: PR: GER 2211 or equivalent. Intermediate German language and culture taught in the native environment.

GER 2271 AS-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.

GER 3100 AS-LANG 3(3,0) Germany - Past to Present: PR: GER 3760 or GER 3420 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.

GER 3272 AS-LANG 2(2,0) Modern German Civilization Abroad II: PR: GER 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.

GER 3420 AS-LANG 3(3,0) Intensive German Composition: PR: GER 2201 or equivalent. Development of skills in composition.

GER 3440 AS-LANG 3(3,0) Business German I: PR: GER 2200. Introduction to German business language and practices.

GER 3441 AS-LANG 3(3,0) Business German II: PR: GER 3440. Continuation of Business German I.

GER 3470 AS-LANG 6(6,0) Advanced German Grammar: PR: GER 2201. Advanced German grammar in the context of conversation and composition taught in the native environment.

GER 3760 AS-LANG 3(3,0) Advanced German Oral Communication: PR: GER 2201 or equivalent. Vocabulary building with systematic training in dictionary and vocabulary. Speeches and oral presentations as well as production and delivery of real-life dialogues.

GER 3780 AS-LANG 3(3,0) German Phonetics and Diction: PR: GER 2240. The fundamental principles of German pronunciation.

GER 4422 AS-LANG 3(3,0) Advanced German Grammar: PR: GER 3760, or any other 300 level German course. An accelerated grammar course designated for advanced students of the German language.

GER 4510 AS-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.

GER 4520 AS-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.

GEW 3100 AS-LANG 3(3,0) Survey of German Literature I: PR: GER 2201 or equivalent. Main literary currents and works from the Middle Ages through 19th Century Romanticism.

GEW 3101 AS-LANG 3(3,0) Survey of German Literature II: PR: GER 2201 or equivalent. Main literary currents and works from 19th Century Realism to the present.

GEW 3370 AS-LANG 3(3,0) Short Story: PR: GER 2201 or equivalent. German short prose works of the 19th and 20th centuries.

GEW 3480 AS-LANG 3(3,0) German Post-War Literature: PR: GER 2201. This course examines the works of German, Austrian and Swiss writers after World War II.

GEW 4482 AS-LANG 3(3,0) German Children's Literature: PR: GER 2200. A look into the history of German children's literature with a concentration on works after World War II.

GEW 4531 AS-LANG 3(3,0) The Age of Goethe and Schiller: PR: GER 2201. Selected texts of Goethe and Schiller are examined with particular attention to their relationship to both German classicism and German romanticism.

GEY 3001 HPA-HAP 3(3,0) Gerontology: An Interdisciplinary Overview: PR: Junior standing or C.I. Study of aging from an interdisciplinary perspective that bridges social and behavioral sciences, nursing, social work, allied health, and natural sciences. May be repeated for credit.

GEY 5007 HPA-NURS 3(3,0) Women and Healthy Aging: PR: Graduate standing or senior undergraduate. The examination of the health promotion opportunities and bio-psycho-social challenges of women as they age.

GEY 5600 ED-TLP 3(3,0) Physiology of Aging: PR: BSC 2010C or PCB 3703 or PET 4351 or equivalent. The purpose of this course is to develop the student’s understanding of the effects of human aging on various body systems.

GEY 5648 AS-PSYCH 3(3,0) Gerontology: An Interdisciplinary Approach: PR: Post-baccalaureate or graduate status or C.I. The study of aging will be presented from an interdisciplinary and multidisciplinary approach spanning the social sciences and health.

GLY 1030 AS-CHEM 3(3,0) Geology and its Applications: Geologic principles, applications, and hazards including: gemstones, rock cycle, moving continents, mountain building, metal ores, fossil fuels, groundwater, sinkholes, beach erosion, landslides, earthquakes, tidal waves, volcanism.

GRA 2111C AS-ART 3(2,4) Graphic Design I: PR: ART 2201C. Basic principles, concepts, and techniques in graphic design and art for visual publication.

GRA 2140C AS-ART 3(2,4) Computer Graphic Design: PR: Acceptance in Graphic Design Concentration, GRA 3100C, ART 2201C, ART 2203C, ART 2300C, and a satisfactory portfolio review or C.I. Problems involving the use of computer graphic systems for visual publication.


GRA 3100C AS-ART 3(2,4) Intermediate Graphic Design I: PR: Acceptance in Graphic Design Concentration and ART 2201C, ART 2203C, 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.

GRA 3112C AS-ART 3(2,4) Intermediate Graphic Design II: PR: Acceptance in Graphic Design Concentration, ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Methods related to studio projects in graphic design.

GRA 4195C AS-ART 3(2,4) Advanced Graphic Design: PR: Acceptance in Graphic Design Concentration, ART 2201C, ART 2203C, ART 2301C, and a satisfactory portfolio review or C.I. Problems involving the use of computer graphic systems for visual publication.

GRA 4196C AS-ART 3(2,4) Special Problems in Graphic Design: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, GRA 3112C, and a satisfactory portfolio review or C.I. Advanced problems in visual design and reproduction. May be repeated for credit.

GRE 1120H AS-LANG 4(4,0) Elementary Greek Language and Civilization I: Introduces students to Classical Greek Literature and civilization through the study of grammar and syntax and extensive readings of Greek texts.

GRE 1121H AS-LANG 4(4,1) Elementary Greek Language and Civilization II:
UCF Courses and Descriptions

PR: GRE 1120H. Continuation of Elementary Greek I.
GRE 2230H AS-LANG 4(4,0)
Introduction to Greek Literature: PR: GRE 1121H.
Readings in selected original Greek texts, e.g., Plato's apology. May be repeated for credit.

HBR 1120 AS-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.

HBR 1121 AS-JUD 4(4,0)
Elementary Modern Hebrew Language and Culture II: PR: HBR 1120 or equivalent. Continuation of HBR 1120.

HBR 2200 AS-JUD 3(3,0)
Intermediate Modern Hebrew I: PR: HBR 2200 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.

HBR 2201 AS-JUD 3(3,0)
Intermediate Modern Hebrew II: PR: HBR 2200. Further development of modern Hebrew language skills in listening, speaking, reading, and writing.

HBR 3410 AS-JUD 3(3,0)
Conversational Hebrew: PR: HBR 2200 or equivalent. Courses of modern Hebrew in the contemporary Israeli context.

HFT 1000 UCF-HOSP 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.

HFT 2220 UCF-HOSP 3(3,0)
Hospitality Human Resources Management: Application of strategic principles of human resources to the hospitality tourism setting.

HFT 2254 UCF-HOSP 3(3,0)
Lodging Operations: PR: HFT 1000. Basic principles of operating a lodging facility including accounting, housekeeping, engineering, front desk, and guest services.

HFT 2403 UCF-HOSP 3(3,0)

HFT 2444 UCF-HOSP 3(3,0)
Hospitality Information Systems: Impact of management information systems on the hospitality industry; includes development and deployment of property management systems.

HFT 2500 UCF-HOSP 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.

HFT 2750 UCF-HOSP 3(3,0)
Meeting, Convention And Exposition Industry: Overview of meeting and convention concepts and operations including the roles of organizations and people involved in the businesses that comprise this industry.

HFT 3261 UCF-HOSP 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.

HFT 3273 UCF-HOSP 3(3,0)
Principles of Resort Timesharing: PR: HFT 1000 and junior standing or C.I. Principles of resort timeshare operations and ownership.

HFT 3313 UCF-HOSP 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.

HFT 3374 UCF-HOSP 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.

HFT 3431 UCF-HOSP 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.

HFT 3471 UCF-HOSP 3(3,0)

HFT 3511 UCF-HOSP 3(3,0)
Convention and Conference Sales: PR: HFT 2750, and junior standing or C.I. In-depth understanding of the sales process for the convention market. Covers the people, methods, materials and equipment needed.

HFT 3540 UCF-HOSP 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.

HFT 3574 UCF-HOSP 3(3,0)

HFT 3600 UCF-HOSP 3(3,0)
Legal Environment in the Hospitality and Tourism Industry: PR: C.I. Principles of law as related to the Hospitality/Tourism industry.

HFT 3654 UCF-HOSP 3(3,0)
Franchising in the Restaurant Industry: PR: Restaurant Management Core or C.I. Addresses the legal requirements for franchisee and franchisor agreements, responsibilities, size, structure, and history.

HFT 3700 UCF-HOSP 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 an inter-linked industry composed of many sectors within both the private and public sectors.

HFT 3741 UCF-HOSP 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.

HFT 3757 UCF-HOSP 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.

HFT 3770 UCF-HOSP 3(3,0)
Cruise Line Operations and Management: PR: HFT 1000 and junior standing or C.I. Understanding of cruise company operating concept. Shipboard organization and delivery of the cruise product to the guest.

HFT 3784 UCF-HOSP 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.

HFT 3785 UCF-HOSP 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.

HFT 3802 UCF-HOSP 3(3,0)
Catering Management: PR: HFT 1000, HFT 2750. Catering sales and operations. Emphasis on logistics, market segments, and service.

HFT 3807 UCF-HOSP 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.

HFT 3834 UCF-HOSP 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.

HFT 3933 UCF-HOSP 1(1,0)
Distinguished Lectures in Hospitality Management: PR: HFT 1000, Junior standing. First hand introduction to hospitality leaders, their perspectives on the segments they represent, and the breadth of those segments. Graded S/U.

HFT 3949 UCF-HOSP 1-5(0-1-5)
Cooperative Education: Provides paid, pre-professional work experience related to the student's major while they continue to attend school. Requires achievement of major-related learning objectives.

HFT 4250C UCF-HOSP 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.

HFT 4266 UCF-HOSP 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.

HFT 4268 UCF-HOSP 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.

HFT 4269 UCF-HOSP 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.

HFT 4274 UCF-HOSP 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.

HFT 4275 UCF-HOSP 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.
Hospitality Management. Students apply their cumulative concepts and theories applicable to the Hospitality Industry.

HFT 4277 UCF-HOSP 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.

HFT 4281 UCF-HOSP 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.

HFT 4294 UCF-HOSP 3(3,0) Hospitality Enterprises Management II: PR: C.I. Planning and implementing strategies for managing the human resource in the hospitality/tourism industry.

HFT 4295 UCF-HOSP 3(3,0) Strategic Management in Hospitality Industry: PR: Completion of Hospitality Management Core program. Principles of strategic decision making in various hospitality and tourism organizations; lectures, case discussions, and group case analysis presentations.

HFT 4298 UCF-HOSP 3(3,0) Hospitality Business Consulting: PR: HFT 1000 and junior standing or C.I. A systematic approach to Hospitality Management. Concepts apply their cumulative knowledge in an active learning environment in a small hospitality operation.

HFT 4343 UCF-HOSP 3(3,0) Hospitality Facilities Planning and Design: PR: HFT 1000, HFT 2254 and junior standing; or C.I. Principles of facility planning, layout and design for dining, kitchen, guest room, lobby, and service areas.

HFT 4375 UCF-HOSP 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.

HFT 4413 UCF-HOSP 3(3,0) Technology Applications for Hospitality Management: PR: HFT 2444 Hospitality Information Systems. Provides students with fundamental information system concepts and techniques for effective applications to strategic thinking in hospitality organizations.

HFT 4425 UCF-HOSP 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.

HFT 4432 UCF-HOSP 3(3,0) Hospitality Industry Auditing: PR: HFT 3431. Hospitality Industry Managerial Accounting. Provides basic fundamentals of eliminating fraud and saving money through proper internal controls in the hospitality industry.

HIM 3116C HPA-HIM 4(3,2) Health Information Organization and Management: PR: HIM 3116C. An in-depth study of the organization and management of health information systems. Topics include: classification systems; health and vital statistics; data analysis and presentation; indexing; computer abstracting; and reporting.

HIM 3806L HPA-HIM 2(0,4) Professional Practice Experience I: PR: Admission to the professional phase of the Health Information Management Program. Interdepartmental experience; master patient index; introduction to health information management departments in selected health care facilities.

HFT 4442 UCF-HOSP 3(3,0) Vacation Ownership Reservations and Database Systems: PR: HFT 1000, HFT 3273, HFT 4222, HFT 4274 or C.I. Tactics and strategies necessary for owner management, information telecom, and financial reporting.

HFT 4453 UCF-HOSP 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.

HFT 4462 UCF-HOSP 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.

HFT 4473 UCF-HOSP 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.

HFT 4522 UCF-HOSP 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.

HFT 4532 UCF-HOSP 3(3,0) Managing the Employee Experience in the Theme Park and Attractions 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.

HFT 4645 UCF-HOSP 3(3,0) Restaurant Real Estate, Site Selection, and Modeling: PR: Hospitality and Restaurant Management Core or C.I. Examines the management systems for finding, evaluating, securing, and developing dynamic restaurant real estate locations.

HFT 4717 UCF-HOSP 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.

HFT 4722 UCF-HOSP 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.

HFT 4735 UCF-HOSP 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.

HFT 4752 UCF-HOSP 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.

HFT 4753 UCF-HOSP 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.

HFT 4754 UCF-HOSP 3(3,0) Exhibit and Trade Show Operations: PR: HFT 2750 and junior standing or C.I. Provides an in-depth study of exhibit and trade show operations. Focuses on both supply and demand pertaining to exhibits and trade shows.

HFT 4755 UCF-HOSP 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.

HFT 4758 UCF-HOSP 3(3,0) Contemporary Issues in the Theme Park and Attractions 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.

HFT 4759 UCF-HOSP 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.


HFT 4765 UCF-HOSP 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.

HFT 4787 UCF-HOSP 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.

HFT 4844 UCF-HOSP 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 food borne illnesses. Includes National Restaurant Association (NRA) certification.

HFT 4861 UCF-HOSP 3(3,0) Beverage Management: PR: Minimum age of 21 by the first day of class and junior standing. The origin, production, storage, marketing, and control of beverages in the hospitality industry.

HIM 3006 HPA-HIM 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.

HIM 3116C HPA-HIM 4(3,2) Health Record Organization and Management: PR: HIM 3006C. Nomenclatures/classification systems; health and vital statistics; data analysis and presentation; indexing; computer abstracting; and approving agencies; medical staff organization.

HIM 3806L HPA-HIM 2(0,4) Professional Practice Experience II: PR: Admission to the professional phase of the Health Information Management Program. Interdepartmental experience; master patient index; introduction to health information management departments in selected health care facilities.


HFT 4426C UCF-HOSP 3(2,2) Coding Procedures II: PR: HFT 4426C. Principles and mechanics of coding systems for outpatient health information retrieval; ICD-9-CM.
UCF Courses and Descriptions

HIM 4344C: Health Information Department Management

HIM 4406C: Quality Management

HIM 4656C: Information Management

HIM 4676: Professional Development and Issues in Health Information Management

HIM 4706C: Management Affiliation

HIS 3006C, HIM 3116C, HIM 3806L, HIM 4226C: Inpatient coding; health and vital statistics; JCAHO accreditation; indexing; abstracting; medical staff organization and credentialing.

HIS 3462 AS-HIST: History of Science

HIS 3949 AS-HIST: Cooperative Education in History

HIS 4150 AS-HIST: History and Historians

HIS 4506C: 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.

HIS 4836L: Professional Practice Experience II: PR: HIM 4226C; HIM 4344C; HIM 4506; HIM 4836L. Inpatient coding; health and vital statistics; JCAHO accreditation; indexing; abstracting; medical staff organization and credentialing.

HIS 4837L: Professional Practice Experience IV: PR: HIM 4226C; HIM 4344C; HIM 4506; HIM 4836L. Outpatient coding, quality management, utilization review, risk management, transcription, assignment to hospitals and other health care facilities/organizations.

HIS 4838: 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 and case studies.


HIS 4150 AS-HIST: History and Historians: PR: C.I. A study of European and/or American historiography. May be repeated once for credit.

HIS 4944 AS-HIST: 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.

HIS 4970 AS-HIST: Senior Thesis: Original research paper available to advanced history majors, topics to be selected in consultation with a directing professor.

HIS 5067 AS-HIST: Introduction to Public History: PR: Graduate standing. Examine and discuss the practice of history in museums, archives, documentary editing, historical publication, media, historical societies, and government agencies.

HIS 5158 AS-HIST: Classic and Contemporary Historical Thought: PR: Graduate Standing. Course will explore work of important historians influenced by social theory to gain an understanding of their main concepts.


HLP 4722 ED-TLP: 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.

HSA 3122 HPA-HP: 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.


HSA 3210 HPA-HP: Long Term Care Administration: PR: HSA 3122. Current financing mechanisms and proposed solution, and the impact of government regulation or the operation of long-term care facilities.

HSA 3430 HPA-HP: Health Care Economics: PR: HSA 3122. 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.

HSA 3559 HPA-COMD: 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.

HSA 4109 HPA-HP: Principles of Managed Care: PR: HSA 3122, HSA 3170, HSA 4120, HSA 4180, HSA 4193, HSC 4500. Course will introduce the contractual, financial, and practice pattern components of managed care.

HSA 4120 HPA-HP: Community Health: PR: HSA 3122. Historical, sociocultural and economic factors in community health; current community health problems; interphase of governmental, voluntary and private agencies.


HSA 4700 HPA-HP: Health Sciences Research Methods: PR: HSA 3122, HSA 3170, HSA 4120, HSA 4180, HSA 4193, and HSC 4500. Introduction to research design in the Health Sciences, including literature review, testing, analysis, and conclusions.

HSA 4701 HPA-HP: 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 externally and internally reliable and valuable will be stressed.

HSA 5177 HPA-HP: 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.

HSA 5197 HPA-HP: ICD9 Coding for Health Services Administrators: PR: HSC 6365, 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.

HSA 5198 HPA-HP: Health Care Computer Applications: PR: Graduate status. Overview of health information systems, with an emphasis on computer applications. Discussion of software and hardware requirements.

HSA 5258 HPA-HP: CPT Coding for Health Services Administrators: PR: HSC 6365 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.


HSC 2000 HPA-HP: 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.

HSC 3110C HPA-HP: Medical Self Assessment: Development of clinical skills and understanding of one’s health to encourage active participation of individuals in their own health care.


HSC 3402C HPA-HP: CPR & First Aid: Train to individuals accepted and recognized medical standards in emergency first aid and CPR to include medical, environmental and trauma related emergencies.

HSC 3531 HPA-HP: Medical Terminology: A study of the language of medicine and allied health specialties, including work construction, definitions, and application of terms.

HSC 3593C HPA-HP: HIV Disease: A Human Concern: Analysis of the spectrum of HIV disease. Topics include: epidemiology & immunology; basic facts, prevention; legal, economic, and ethical issues; psychosocial aspects; substance abuse; sexuality and decision-making.

HSC 3640 HPA-HP: Health Law: PR: HSA 3122, HSA 3170, HSA 4120,
HSA 4180. Principles of law as applied to the health field, with special reference to health practices.

HSC 4008 HPA-HP 3(3,0) Professional Development in Health Professions: PR: RET 3026 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.

HSC 4243 HPA-HP 3(3,0) Analysis of Instruction in Health Professions: Development of teaching aids, audiovisuals, learning packets. Course development, questioning strategies, evaluation of didactic and clinical performance.

HSC 4500 HPA-HP 3(3,0) Epidemiology: PR: HSA 3122, STA 2014C or STA 2023. A study of the determination and distribution of diseases and injuries in human population.

HSC 4550 HPA-HP 3(3,0) Pathophysiologic Mechanisms: PR: ZOO 3733C and PCB 3703C, or C.I. A study of pathologic lesions and pathophysiologic mechanisms in causation and evolution of the various disease state.

HSC 4564 HPA-HP 3(3,0) Health Care Needs of the Elderly: PR: HSA 3122, HSA 3170, HSA 4120, HSA 4180, HSA 4193, HSC 4500. Overview of the physical and emotional needs of the elderly, including the institutional health care available.

HSC 4653 HPA-HP 3(3,0) Health Care Ethics: PR: HSA 3122, HSA 3170, HSA 4120, HSA 4188, HSA 4193, HSC 4500. A study of ethical issues in health care, including life-saving measures, rights to die, transplants, surrogate parenthood, privacy and confidentiality, and decision-making.

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.

HUM 2211 AS-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.

HUM 2211H AS-PHIL 3(3,0) Honors 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. Honors content.

HUM 2230 AS-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. Honors content.

HUM 2230H AS-PHIL 3(3,0) Honors 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. Honors content.

HUM 3255 AS-PHIL 3(3,0) Modern Humanities: PR: ENC 1102 or C.I. Multicultural study of Philosophy and the arts of the modern period.

HUM 3320 AS-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.

HUM 3401 AS-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.

HUM 3417 AS-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.

HUM 3419 AS-PHIL 3(3,0) Islamic Thought and Culture: PR: HUM 2230, REL 2300, or C.I. A survey of the development of Islamic thought and culture, concentrating on religion, jurisprudence, philosophy, science and art.

HUM 3431 AS-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.

HUM 3435 AS-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.

HUM 3552 AS-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.

HUM 3553 AS-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.

HUM 4301 AS-PHIL 3(3,0) The Classical Ideal: PR: HUM 2211 and HUM 2230 or C.I. The search for order and form in the arts of various times and cultures. Concerns reason, structure, objectivity, harmony. Open to all Juniors and Seniors.

HUM 4303 AS-PHIL 3(3,0) The Spiritual Ideal: PR: HUM 2211 and HUM 2230 or C.I. Concerns works of art reflecting spiritual insight or the spiritual quest; mystical impulses contrasted to ethics and pathos.

HUM 4330 AS-PHIL 3(3,0) Performance Theory: PR: Junior standing and HUM 2230 and either PHI 2010, PHI 2011, PHI 2101, or C.I. Traditional and contemporary theories of performance with a focus on linguistic performative, bodily and virtual performances, self-identity, and the politics of performance.

HUM 4393 AS-PHIL 1(1,0) 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.

HUM 4516 AS-PHIL 3(3,0) Religion and the Arts: PR: One of: HUM 2211, HUM 2230, ARH 2300, ARH 2601, or REL 2300. Art, music, dance, and ritual practices in religious traditions, with emphasis on the contemporary.

HUM 4554 AS-PHIL 3(3,0) 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.

HUM 5802 AS-PHIL 3(3,0) Applied Contemporary Humanities: PR: HUM 3503. Development of an applied research project relevant to contemporary cultural issues, using Humanities theories and methods.

HUM 5803 AS-PHIL 3(3,0) Theories and Methods of the Humanities: PR: Senior undergraduate standing and at least one of the following: HUM 3251, HUM 3320, or PHI 4808 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.

HUN 2002 HPA-HP 3(3,0) 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.

HUN 3011 HPA-NURS 3(3,0) Human Nutrition: Essentials of nutrition related to the life cycle, including the physiological, psychosocial, and cultural aspects of nutrition and the interrelationship with disease are emphasized.

HUN 3013 UCF-HOSP 3(3,0) Nutrition Concepts and Issues in the Food Service Industry: PR: HFT 4250C or C.I. Introduces basic nutrition concepts. Discusses nutrition concepts and concerns in relation to food preparation and service in the hospitality industry.

HUN 5937 HPA-HP 3(3,0) Nutrition and Exercise Physiology: This course correlates human nutrition with exercise physiology. Nutritional concepts are related to human performance and fitness.

IDH 1040H UCF-HON 2(2,1) Honors Foundation of Leadership: An honors symposium that presents academic leaders and their research or artistic achievements. Students are organized in groups to discuss leadership principles and applications. Graded S/U.

IDH 1921 UCF-HON 1(2,0) Honors Symposium: Readings, lectures and discussions covering aspects of scholarship, artistic, and other creative efforts.

IDS 1040C AS-LS 2(1,1) Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Arts & Sciences providing a foundation of leadership, scholarship, and service regarding disciplines in the college.

IDS 2041C AS-CAS 2(1,1) LEAD Colloquium: PR: Must have completed 2 of the following: HHT 2081, HHT 2091, or any IDS or CAS course. Continuing education in leadership training and preparation for the LEAD Scholars Program.

IDS 2680 AS-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.
IDS 3150 AS-LS 3(3,0) Foundations of Environmental Studies: PR: Junior standing, complete equivalent of UCF Science and Math GEP. An overview of the approaches taken by different disciplines to address regional, national, and global environmental issues.

IDS 3683 AS-DIG 3(3,0) Digital Media Production I: PR: IDS 2680 and ART 2600C. Media project planning, organization, and execution; group dynamics. Software tools for project planning, scheduling and management.

IDS 3684L AS-DIG 1(0,3) Digital Media Service I: PR: IDS 3683. Participation in a consulting service for selected clients within and external to the university, where students design Web pages, and provide tutorial, installation and maintenance assistance with software tools.


IDS 3689C AS-DIG 4(2,2) Computer as a Medium: PR: IDS 2680. Not for credit if those who have had ART 2230C. Drawing of objects using the computer. Students will use a stylus with Painter, Photoshop and illustrator software to draw from still life arrangements.

IDS 3701C AS-DIG 3(2,2) Internet Software Design: PR: IDS 2680, COP 2500, COP 3330. Software design for media-rich Internet applications in arts and humanities. User interface, client/server, n-tier architectures, scalability, optimization, streaming, interactive media objects for storytelling and e-commerce.


IDS 3715 AS-DIG 3(3,0) Visual Language of the Moving Image: PR: IDS 3707 or FIL 1007 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.


IDS 4156 AS-LS 3(3,0) Solving Environmental Problems: PR: IDS 2150, ECO 4302, GEO 3151C, GEO 4176C and PUB 3203, or C.I. Capstone course in Environmental Studies focusing on how environmental dilemmas are addressed.

IDS 4681 AS-DIG 3(3,0) Modeling for Realtime Graphics: PR: CAP 4021, ART 2600C or other computer graphics experience 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.

IDS 4682L AS-DIG 3(0,3) Digital Media Project I: PR: IDS 4700C. 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.

IDS 4685L AS-DIG 1(0,3) Digital Media Service II: PR: IDS 3684L. 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.


IDS 4686L AS-DIG 1(0,3) Digital Media Service III: PR: IDS 4685L. 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.


IDS 4688L AS-DIG 3(0,3) Internet Interaction: PR: IDS 2680 or C.GS 3175 or C.I. Interdisciplinary approach to design and construction of advanced interactive web sites, applying aesthetic and scientific principles of user interface design. Project oriented.

IDS 4700C AS-DIG 3(2,2) Digital Media Production II: PR: IDS 3883. Management and execution of large media projects, using structured methods and tools learned in Digital Media Production I.

IDS 4703 AS-DIG 3(0,0) Digital Media Project II: PR: IDS 4682. Continuation of IDS 4682.

IDS 4704 AS-DIG 3(3,0) Media for E-Commerce II: PR: IDS 4688C and COP 3330. Server-side programming in Java to support media-rich E-Commerce applications. Project oriented.

IDS 4705 AS-DIG 3(3,0) Autonomic Media: PR: IDS 3701C. Applications of concepts derived from research on artificial intelligence, to media and the Internet. Project-based.

IDS 4706 AS-DIG 3(3,0) Creative Digital Devices: PR: IDS 3701C and ART 2230C. The physical construction and computer control of electromechanical devices, and the use of software libraries for controlling tested hardware, for entertainment and creative applications.

IDS 4711C AS-DIG 3(2,2) Game Engines: PR: IDS 2680 and C.I. 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.

IDS 5145 ECS-ECS 3(3,2) Interdisciplinary course in simulation: PR: Calculus, Matrix algebra, probability & statistics, high level programming language. An interdisciplinary course on simulation with hands-on experience in discrete event modeling, continuous modeling & shared virtual world. May be repeated for credit.

IDS 5709 AS-DIG 3(3,0) Autonomous Characters: PR: Graduate standing or C.I. Interdisciplinary study of autonomous characters-computer programs that mimic human behaviors in games, simulations and interactive literature. Formal models of strategy, tactics and actions.

IDS 5717C UCF-IDS 3(2,2) Introduction to Modeling and Simulation: PR: STA 2023 or equivalent. Introduction to the theory and practice of modeling and simulation with emphasis on interdisciplinary scientific underpinnings.

IDS 5718 AS-DIG 3(3,0) Science & Technology of Dynamic Media: PR: Graduate standing or C.I. Graduate level survey of key scientific, technical issues in interactive media. Information algorithms, objects, models. Theories of computer graphics, sound, modeling, simulation, interfaces, artificial intelligence.

IDS 3719 UCF-IDS 3(3,0) Quantitive Aspects of Modeling and Simulation: PR: MAC 2241 or equivalent. Introduction to matrix algebra and other discrete mathematics topics for modeling and simulation applications.

INP 3004 AS-PYCH 3(3,0) Industrial/Organizational Psychology: PR: PSY 2012 or C.I. Psychological theories and principles applicable to problems in industrial organizations.

INP 3141C AS-PYCH 1-3(0-3-9) Advanced Applied Psychology: PR: PSY 2012 and C.I. Course will explore application of psychological knowledge to clinical, experimental, industrial, or educational settings. Supervised laboratory experience is required. May be repeated for credit. Graded S/U.


INP 3951 AS-PYCH 3(3,0) 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.

INP 4056 AS-PYCH 3(3,0) Advanced Industrial Psychology: PR: INP 3004 and PSY 5214C. Application of psychological principles to industrial problems. Topics include selection, training, performance appraisal, job design, and work environment.

INP 4313 AS-PYCH 3(3,0) Organizational Psychology: PR: INP 2004, 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.

INP 5825 AS-PYCH 3(3,0) Human-computer Interface (HCI) design: A team approach: PR: Graduate 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.

INR 2002 AS-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.

INR 3016 AS-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.

INR 3253 AS-POLS 3(3,0) International Politics of Africa: PR: Junior standing or C.I. The broad structures and processes of interna- tional politics and foreign policy in Africa, with particular attention on U.S.-African relations.
ISM 4238 BA-MAN 3(3,0)  
Business Programming/OOP: PR: ISM 3005, ISM 4212, or C.I. This course will provide an introduction to object-oriented programming (OOP) and object-oriented design (OOD).

ISM 4300 BA-MIS 3(3,0)  
Technology Management: PR: ISM 4113, MAN 3025, Junior Standing. The strategy and theory of the design, development, adoption, and management of new information technologies.

ISM 4400 BA-MIS 3(3,0)  

ISM 4480 BA-MIS 3(3,0)  

ISM 4941 BA-MIS 3(0,3)  
Internship in MIS: PR: ISM 3005, ISM 4212, and ISM 3011. Application required. Provides student with supervised, management information system-related work experience in a sponsoring organization. See department for information.

ISM 5020 BA-MIS 1.5(1,5,0)  
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.

ISM 5021 BA-MIS 3(3,0)  
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.

ISM 5123 BA-MIS 3(0,3)  
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.

ISM 5256 BA-MIS 3(3,0)  
Concepts of Business Programming: PR: Admission to Graduate Study. Principles of programming including program design, fundamental programming contracts, and database access.

ISS 4155 AS-COMM 3(3,0)  
Science and the Social Sciences: A multimedia examination of not only science fiction from the Social Science perspective.

ITA 1005 AS-LANG 1(1,0)  
Italian Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, Italian songs, and opera libretti.

ITA 1120 AS-LANG 4(4,1)  
Elementary Italian Language and Civilization I: PR: ITA 1120 or equivalent. Continuation of ITA 1120.

ITA 2200 AS-LANG 3(3,0)  
Intermediate Italian Language and Civilization II: PR: ITA 2201 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar, study of syntax, idiomatic expression, extensive readings, and further study of Italian culture.

ITA 2201 AS-LANG 3(3,0)  
Intermediate Italian Language and Civilization II: PR: ITA 2200 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar and study of syntax, with emphasis on Italian civilization.

ITA 2210 AS-LANG 3(3,0)  
Intensive Italian Conversation: PR: One year of Italian or equivalent. Practical use of the language leading toward fluency and correctness in speaking.

ITA 2240 AS-LANG 3(3,0)  
Italian Conversation: PR: ITA 2201 or equivalent. Development of skills in conversation and comprehension with an introduction to Italian culture.

ITA 3420 AS-LANG 3(3,0)  
Italian Composition: PR: ITA 2201 or equivalent. Development of skills in composition, with an introduction to Italian culture.

ITA 3472 AS-LANG 3(3,0)  
Renaissance Art Abroad: PR: Junior standing. A study of Renaissance art from Giotto to Michelangelo.

ITA 3760 AS-LANG 3(3,0)  
Advanced Italian Oral Communication: PR: ITA 2201 or equivalent. Vocabulary building with systematic training in diction and intonation. Speeches and oral presentations as well as production and delivery of real-life dialogues.

ITA 4500 AS-LANG 3(3,0)  
Italian Civilization: PR: ITA 2201. A historical approach to Italian civilization, with particular emphasis on art history.

ITA 4820 AS-LANG 3(3,0)  
Italian Syntax Abroad: PR: ITA 3420. A study of Italian Syntax for advanced students of Italian.

ITW 3100 AS-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.

ITW 3101 AS-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.

ITW 3600 AS-LANG 3(3,0)  

JOU 2100C AS-COMM 3(3,1)  
Advanced Reporting: PR: Journalism major or Magazine Writing minor. This course aims to aid in acquiring and refining the acquisition of the four skills in modern journalism: seeing, speaking, reading, and writing. The emphasis is on accurate communication in journalism. The culture of Japan will also be studied.

JOU 2201 AS-LANG 3(3,1)  
Intermediate Japanese Language and Civilization I: PR: JPN 1120 or equivalent. Continuation of JPN 2200 with emphasis on Japanese civilization.

JST 3100 AS-JUD 3(3,0)  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Department</th>
<th>Title</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 4643</td>
<td>AS-ENG</td>
<td>Cross Cultural Communication</td>
<td>PR: ENC 1102. Junior standing. Studies of the styles of spoken, written, and nonverbal communication of selected cultural groups, including men and women, Afro- and Anglo-Americans, Germans and French, Hispanics, Arabs, and Japanese.</td>
</tr>
<tr>
<td>LIN 4660</td>
<td>AS-ENG</td>
<td>Linguistics and Literature</td>
<td>PR: LIN 3100. Investigation of language study as an aid to understanding literature. Topics include analysis of figurative language, languages as characterization, cohesion, sentence and discourse structure.</td>
</tr>
<tr>
<td>LIN 4680</td>
<td>AS-ENG</td>
<td>Modern English Grammar</td>
<td>PR: ENC 1102 and Sophomore standing. Emphasis upon the analysis and comparison of traditional, structural, and transformational grammar.</td>
</tr>
<tr>
<td>LIN 4711 H</td>
<td>HPA-COMD</td>
<td>Language Analysis</td>
<td>PR: LIN 3176 and LIN 3177. Introduction to procedures for sampling, analyzing, and describing language across the lifespan.</td>
</tr>
<tr>
<td>LIN 4801</td>
<td>AS-ENG</td>
<td>Language and Meaning</td>
<td>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.</td>
</tr>
<tr>
<td>LIN 5137</td>
<td>AS-ENG</td>
<td>Linguistics</td>
<td>PR: Senior or graduate standing or C.I. Modern linguistic theories and studies focusing on language acquisition and development, contemporary American English, semantics, and para-linguistics.</td>
</tr>
<tr>
<td>LIN 5675</td>
<td>AS-ENG</td>
<td>English Grammar and Usage</td>
<td>PR: Graduate Status and. An overview of modern grammar, including structural, transformational and rhetorical grammar, along with an examination of controversial usage.</td>
</tr>
<tr>
<td>LIT 2000</td>
<td>AS-ENG</td>
<td>Introduction to Literary Interpretation</td>
<td>PR: ENC 1102. Interpretation of fiction, drama, verse, conflict, character, theme, point of view, rhetorical and poetic devices, figurative language, verse forms, application of critical approaches to selected works.</td>
</tr>
<tr>
<td>LIT 2110</td>
<td>AS-ENG</td>
<td>World Literature I</td>
<td>PR: ENC 1102. Poetry, prose, and drama selected from ancient Hebrew, Greek, and Oriental literature and from that of Renaissance Europe.</td>
</tr>
<tr>
<td>LIT 2120</td>
<td>AS-ENG</td>
<td>World Literature II</td>
<td>PR: ENC 1102. Readings from Moliere, Voltaire, Goethe, Pushkin, Balzac, Tolstoy, Ibsen, Mann, Kafka, Camus, and others.</td>
</tr>
<tr>
<td>LIT 2120H</td>
<td>AS-ENG</td>
<td>World Literature II Honors</td>
<td>Same as LIT 2120, with honors-level content.</td>
</tr>
<tr>
<td>LIT 3082</td>
<td>AS-ENG</td>
<td>Continental European Fiction Since 1980</td>
<td>PR: ENC 1102. A selection of significant works of fiction written in various languages during the present century, read in translation.</td>
</tr>
<tr>
<td>LIT 3192</td>
<td>AS-ENG</td>
<td>Caribbean Literature</td>
<td>PR: ENC 1102. Traces how Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture.</td>
</tr>
<tr>
<td>LIT 3192 H</td>
<td>AS-ENG</td>
<td>Honors Caribbean Literature</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 3202</td>
<td>AS-ENG</td>
<td>Death and Dying</td>
<td>PR: ENC 1102. Considering the topic of death and dying through a study of literature, the course includes facts, psychological impact, ideological responses to death and identity.</td>
</tr>
<tr>
<td>LIT 3313</td>
<td>AS-ENG</td>
<td>Science Fiction</td>
<td>PR: ENC 1102. An investigation of science fiction as a literary form, together with selected readings.</td>
</tr>
<tr>
<td>LIT 3313 H</td>
<td>AS-ENG</td>
<td>Honors Science Fiction Literature</td>
<td>PR: Permission of Honors and ENC 1102H or equivalent credit. An investigation of science fiction as a literary form, together with selected readings.</td>
</tr>
<tr>
<td>LIT 3354</td>
<td>AS-ENG</td>
<td>Ethnic Literature in America</td>
<td>PR: ENC 1102. Contributions of linguistic and ethnic groups of non-English origin to the literature of the United States.</td>
</tr>
<tr>
<td>LIT 3354 H</td>
<td>AS-ENG</td>
<td>Honors Ethnic Literature in America</td>
<td>PR: Permission of Honors and ENC 1102H or equivalent credit. Contributions of linguistic and ethnic groups of non-English origin to the literature of the United States.</td>
</tr>
<tr>
<td>LIT 3383</td>
<td>AS-ENG</td>
<td>Women in Literature</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 3383 H</td>
<td>AS-ENG</td>
<td>Honors Women in Literature</td>
<td>PR: Permission of Honors and ENC 1102H or equivalent credit. Contributions of linguistic and ethnic groups of non-English origin to the literature of the United States.</td>
</tr>
<tr>
<td>LIT 3394</td>
<td>AS-ENG</td>
<td>Literature of AIDS</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 3394 H</td>
<td>AS-ENG</td>
<td>Honors Literature of AIDS</td>
<td>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.</td>
</tr>
<tr>
<td>LIT 3482</td>
<td>AS-ENG</td>
<td>Literature &amp; Popular Culture</td>
<td>PR: ENC 1102. Analysis of media to determine popular values in the formation of popular cultural perceptions.</td>
</tr>
<tr>
<td>LIT 3905</td>
<td>AS-ENG</td>
<td>Directed experience in Literature</td>
<td>PR: ENC 1102. C.I. Individualized topics of study and/or research in literature with personalized faculty direction. May be repeated for credit.</td>
</tr>
<tr>
<td>LIT 3911 H</td>
<td>AS-ENG</td>
<td>Research Methods N Honors</td>
<td>PR: Honors Student Status or consent of Honors coordinator. Introduction to scholarship and practical research in literature and writing.</td>
</tr>
<tr>
<td>LIT 4043</td>
<td>AS-ENG</td>
<td>Modern Drama As Literature</td>
<td>PR: ENC 1102 and ENG 3014. A study of important plays, playwrights, themes, movements, and styles in modern American, British, and European drama.</td>
</tr>
<tr>
<td>LIT 4184</td>
<td>AS-ENG</td>
<td>Irish Literature</td>
<td>PR: ENC 1102 and ENG 3014. Study of literature written in Ireland, within the context of Irish history, politics, culture and colonial experience.</td>
</tr>
<tr>
<td>LIT 4285 H</td>
<td>AS-ENG</td>
<td>Faces of Evil</td>
<td>PR: ENC 1102. An Honors seminar on the literature and film depictions of hatred, racism, and other evil.</td>
</tr>
<tr>
<td>LIT 4303</td>
<td>AS-ENG</td>
<td>Post-World War II Fiction</td>
<td>PR: ENC 1102 and ENG 3014. An investigation of various modes of reality in the works of significant postmodernist world authors, crossing cultural boundaries.</td>
</tr>
<tr>
<td>LIT 4374</td>
<td>AS-ENG</td>
<td>Literature of the Bible</td>
<td>PR: ENC 1102 or ENG 3014 or C.I. Literary forms in the Bible N narrative, poetic, and dramatic N and their reflection in modern literature.</td>
</tr>
<tr>
<td>LIT 4374 H</td>
<td>AS-ENG</td>
<td>Honors Literature of the Bible</td>
<td>PR: Permission of Honors and ENC 1102H or equivalent credit. Literary forms in the Bible N narrative, poetic, and dramatic N and their reflection in modern literature.</td>
</tr>
<tr>
<td>LIT 4433</td>
<td>AS-ENG</td>
<td>Survey of Technical and Scientific Literature</td>
<td>PR: ENC 1102 and Junior Standing or C.I. An analysis of the historical development of technical and scientific writing from the Renaissance to the present.</td>
</tr>
<tr>
<td>LIT 4554</td>
<td>AS-ENG</td>
<td>Advanced Feminist Theories</td>
<td>PR: ENC 1102 and ENG 3014 or ENG 3015. An advanced exploration of feminist critical theories and practices.</td>
</tr>
<tr>
<td>LIT 4937 H</td>
<td>AS-ENG</td>
<td>English Honors Seminar</td>
<td>PR: ENG 3014 and Honors Student Status or consent of Honors coordinator. In-depth study of language and/or literature with an emphasis on creative and critical abilities.</td>
</tr>
<tr>
<td>LIT 5028</td>
<td>AS-ENG</td>
<td>Form and Theory of Short Story</td>
<td>PR: Graduate student or C.I. Evolving forms and theories of short fiction and the implications of form and theory.</td>
</tr>
<tr>
<td>LIT 5039</td>
<td>AS-ENG</td>
<td>Studies in Contemporary Poetry</td>
<td>PR: Graduate 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.</td>
</tr>
<tr>
<td>LIT 5097</td>
<td>AS-ENG</td>
<td>Studies in Contemporary Fiction</td>
<td>PR: 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.</td>
</tr>
<tr>
<td>LIT 5250</td>
<td>AS-ENG</td>
<td>The Victorian Age: Poetry</td>
<td>PR: Graduate standing or C.I. Poets of the Victorian period, including Tennyson, the Brownings, Arnold, Hopkins, Hardy, the Rossettis, Emily Bronte, and others.</td>
</tr>
<tr>
<td>LIT 5269</td>
<td>AS-ENG</td>
<td>Nineteenth-Century Essays</td>
<td>PR: Graduate standing or C.I. English non-fiction prose of the 19th century.</td>
</tr>
<tr>
<td>LIT 5309</td>
<td>AS-ENG</td>
<td>Popular Culture and Media</td>
<td>PR: Graduate standing or C.I. Study of contemporary media and the literature of popular culture.</td>
</tr>
</tbody>
</table>
LIT 5366 AS-ENG 3(3,0)
The Romantic Revolt (19th Century Literature): PR: Senior standing or C.I. The romantic revolt in poetry and prose; English, American and Continental literature from 1798 to 1840.

LIT 5387 AS-ENG 3(3,0)
Captives, Housewives, and Coquettes: PR: Graduate status or C.I. Course considers early American women's literature from 17th to 19th centuries.

LIT 5389 AS-ENG 3(3,0)
Studies in Gender & Fiction Writing: PR: Graduate status or C.I. Gendered applications for teaching and practice of fiction writing

LIT 5556 AS-ENG 3(3,0)
Advanced Feminist Theories: PR: Graduate status or C.I. Graduate level Feminist Theories from "French Feminism" to "Critical Race Theories."

MAA 4226 AS-MATH 4(4,0)

MAA 4227 AS-MATH 3(3,0)
Advanced Calculus II: PR: MAA 4226 or C.I. Continuation of MAA 4226.

MAA 5210 AS-MATH 4(4,0)
Topics in Advanced Calculus: PR: MAA 4226 or C.I. Topics in multivariable calculus, including limits, continuity, integration, differentiation, Taylor’s theorem, inverse and implicit function theorems

MAA 5405 AS-MATH 3(3,0)

MAA 5416 AS-MATH 3(3,0)
Foundations of Analysis: PR: MAA 4226. Topological spaces, compactness results, connectedness, analytical and differentiable manifolds, topological groups, Lie groups, representation theory for classical groups, Green, Stoke and Gauss’ theorems.

MAC 1105 AS-MATH 3(3,0)

MAC 1105H AS-MATH 3(3,0)

MAC 1114 AS-MATH 3(3,0)
College Trigonometry: PR: MAC 1105 or 2 years of high school algebra or C.I. The circle arc length, circular function values, graphs of circular functions, applications to simple harmonic motion, function of angles, complete development of triangle solving. Course graded “A”, “B”, “C”, “NC,” or “F”

MAC 2147 AS-MATH 5(5,0)
Mathematics for Calculus: PR: Solid background in algebra or trigonometry, or C.I. For students with good mathematical backgrounds who do not want to go directly into calculus. Topics include matrices, determinants, permutations, combinations, sequences, series, induction, trigonometric functions. Course graded “A”, “B”, “C”, “NC,” or “F”

MAC 2233 AS-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. Open to students with credit in MAC 2253 or MAC 2311. Course graded “A”, “B”, “C”, “NC,” or “F”

MAC 2241 AS-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 course. Course graded “A”, “B”, “C”, “NC,” or “F”

MAC 2253 AS-MATH 3(3,0)

MAC 2254 AS-MATH 3(3,0)
Applied Calculus II: PR: MAC 2253 or C.I. Continuation of MAC 2253.

MAC 2281 AS-MATH 4(4,0)

MAC 2281H AS-MATH 4(4,0)
Calculus for Scientists and Engineers I (Honors): PR: MAC 1105 and MAC 1114 or Consent of Honors Program. Same material as MAC 2281, taught at the Honors level. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in any other calculus sequence. Course graded “A”, “B”, “C”, “NC,” or “F”

MAC 2282 AS-MATH 4(4,0)
Calculus for Scientists & Engineers II: PR: MAC 2281. Same material, different order, as MAC 2311, MAC 2312, and MAC 2313. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in MAC 2311, MAC 2312, and MAC 2313.

MAC 2282H AS-MATH 4(4,0)
Calculus for Scientists and Engineers II (Honors): PR: MAC 2281H or MAC 2281 and consent of Honors Program. Same material as MAC 2282, taught at the Honors level. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in any other calculus sequence.

MAC 2283 AS-MATH 4(4,0)
Calculus for Scientists & Engineers III: PR: MAC 2282. Same material, different order, as MAC 2311, MAC 2312, and MAC 2313. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in MAC 2311, MAC 2312, and MAC 2313.

MAC 2283H AS-MATH 4(4,0)
Calculus for Scientists and Engineers III (Honors): PR: MAC 2282H or MAC 2282 and consent of Honors Program. Same material as MAC 2283, taught at the Honors level. Only for Engineering, Chemistry, Physics, and Mathematics students. Not open to students with credit in any other calculus sequence.

MAC 2311 AS-MATH 3(3,0)
Calculus with Analytic Geometry I: PR: MAC 1105 and MAC 1114 or C.I. The differential and integral calculus of algebraic and elementary transcendental functions with geometric and physical applications. Topics from analytic geometry include coordinate systems, vectors, lines, conic sections, transformations of coordinates, and polar coordinates. During the second and third semesters the topics also include sequences and series, Taylor series, and the differential and integral calculus for functions of several variables. Course graded “A”, “B”, “C”, “NC,” or “F”

MAC 2311H AS-MATH 4(4,0)
Calculus with Analytic Geometry I (Honors): Differential and integral calculus, emphasizing understanding classical concepts and their applications. Students will complete projects on their own. For honors students from all disciplines. Course graded “A”, “B”, “C”, “NC,” or “F”

MAC 2312 AS-MATH 4(4,0)
Calculus with Analytic Geometry II: PR: MAC 2311 or C.I. Continuation of MAC 2311.

MAC 2312H AS-MATH 4(4,0)
Calculus with Analytic Geometry II (Honors): Continuation of MAC 2311H.

MAC 2313 AS-MATH 4(4,0)
Calculus with Analytic Geometry III: PR: MAC 2312 or C.I. Continuation of MAC 2312.

MAC 2313H AS-MATH 4(4,0)
Calculus with Analytic Geometry III (Honors): Continuation of MAC 2312H.

MAC 3103H AS-MATH 3(3,0)

MAC 4203 AS-MATH 4(4,0)
Combinatorics and Graph Theory: PR: MAC 2312 and STA 2023. Counting principles, inclusion-exclusion principle, recurrence relations, generating functions, properties of graphs and digraphs, trees, path problems, coloring planarity, connectiveness matchings and coverings, applications.

MAC 5205 AS-MATH 3(3,0)
Combinatorics and Graph Theory II: PR: MAD 4203 or C.I. Polya’s theory of counting; Latin squares and rectangles; block designs; coding theory; probabilistic methods; hypergraphs; applications.

MAE 2801 ED-TLP 3(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.

MAE 3430 ED-TLP 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.

MAE 4326 ED-TLP 3(3,0)
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.

MAE 4360 ED-TLP 4(3,2)
Mathematics Instructional Analysis: PR: EDG 2423. Study of course objectives for the middle school grades and high school curriculum and survey of methods and materials which have special application for teaching mathematics.

MAE 4634 ED-TLP 3(2,1)
Programs in Teaching of Mathematics: PR: C.I. A consideration of special programs, strategies, and
materials. Emphasis on individual needs of students.

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.)

MAE 5336 ED-TLP 3(3,0)  
Current Methods in Secondary School Mathematics: PR: EDG 4323 or EDG 6236 or C.I. Required special methods course for mathematics 6-12 certification. Assessment, curriculum, technology, practical classroom ideas and activities.

MAE 5356 ED-TLP 3(3,0)  
Teaching General Mathematics in the Secondary School: PR: MAE 3330 or C.I. This course addresses specific techniques for developing general mathematics skills and concepts beginning in grade 6. Problem solving, motivation, and innovative methods are explored.

MAE 5935 AS-MATH 3(3,0)  
Post-Secondary Mathematics: 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.

MAN 3025 BA-MAN 3(3,0)  
Management of Organizations: PR: Junior Standing. ACC 2071, ECO 2012, ECO 2023. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior and control.

MAN 3025H BA-MAN 3(3,0)  
Honors Management of Organizations: PR: Participation in honors program, junior standing, ECO 2013, ECO 2023. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior, and control. Applicable to honors students.

MAN 3301 BA-MAN 3(3,0)  
Management of Human Resources: PR: 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.

MAN 4029 BA-MAN 3(3,0)  
Service Organization Management: PR: MAN 3025 and ISM 3530. Study of the special characteristics, problems, and methods for managing service-oriented organizations.

MAN 4101 BA-MAN 3(3,0)  
Human Relations in Management: PR: MAN 3025. The study of individual, interpersonal, group, and intergroup problems in business organizations through the use of cases and experimental exercises.

MAN 4240 BA-MAN 3(3,0)  

MAN 4310 BA-MAN 3(3,0)  
Human Resource Management Issues: PR: 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.

MAN 4320 BA-MAN 3(3,0)  
Human Resources Recruitment and Selection: PR: MAN 3301. A concentrated investigation of the methods appropriate to the development, implementation and administration of the staffing process in contemporary organizations.

MAN 4330 BA-MAN 3(3,0)  
Compensation Administration: PR: 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.

MAN 4350 BA-MAN 3(3,0)  
Training and Development: PR: MAN 3301. This course focuses on training and development activities as performed by organizational specialists. Theory, issues, practices and problems are discussed.

MAN 4401 BA-MAN 3(3,0)  
Labor Relations Management: PR: 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.

MAN 4521 BA-MAN 3(3,0)  
Production Planning and Control: PR: ISM 3530. In depth study on long-range, intermediate-range and short-range planning and control methods as applied to a manufacturing organization.

MAN 4572 BA-MAN 3(3,0)  
Procurement Management: PR: MAN 3025 and ISM 3530. An elective course in procurement management. Designed to provide the student with fundamental concepts and processes involved in the procurement of goods and services required by modern society.

MAN 4595 BA-MAN 3(3,0)  
Computer-Based Operations Management: PR: ISM 3531. Application of production planning and control theories and Management Informations Systems concepts to an integrated, computerized, real-world production environment.

MAN 4600 BA-MAN 3(3,0)  
International Management: PR: EGB 4436. The course examines issues involved in multinational management of business firms, with special emphasis on comparative management.

MAN 4701 BA-MAN 3(3,0)  
Business Ethics and Society: PR: MAN 3025. This course applies the ethics dimension to business decisions in today's complex political, social, economic and technological environment.

MAN 4720 BA-MAN 3(3,0)  
Strategic Management: PR: Completion of the remainder of the Core Curriculum and graduating senior. Students assume a strategic view of organizations and integrate and apply material learned in business courses to modern organizational problems and opportunities.

MAN 4720H BA-MAN 3(3,0)  
Honors Strategic Management: PR: Permission of Honors and Graduating semester. Capstone course integrates and applies management theories, and frameworks to tackle modern organizational planning problems, and opportunities. Honors content.

MAN 4802 BA-MAN 3(3,0)  
Entrepreneurship: PR: MAN 3025, FIN 3403, and MAR 3023. Study of entrepreneurship with emphasis on innovation, feasibility, planning, product and service concepts, and organizing financing and developing a new venture.

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.

MAN 5021 BA-MAN 1.5(1.5,0)  
Management Foundations: PR: Acceptance to Graduate Study, ACQ 5005 and ECO 5006. Theory and practice of managing organizations to include planning, organizational theory, human behavior, and control.

MAN 5050 BA-MAN 2(2,0)  
Management Concepts: PR: Acceptance in MBA program. Theory and practice of managing organizations to include planning, organizational theory, human behavior, and control.

MAN 5501 BA-MAN 2(2,0)  
Foundations of Production/Operations Management: PR: Acceptance into the graduate program and ECO 5415 or equivalent. Provides foundation in fundamental concepts, techniques, and applications of contemporary production and operations management to serve as tools for improving quality, productivity, and international competitiveness.

MAP 2302 AS-MATH 3(3,0)  

MAP 2302H AS-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.

MAP 4103 AS-MATH 3(3,0)  

MAP 4153 AS-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.

MAP 4171 AS-MATH 3(3,0)  
Optimization for Actuarial Science: PR: MAC 2312 and STA 2023. Linear and dynamic programming, project scheduling, integer programming, theory of queues and stochastic simulation.

MAP 4307 AS-MATH 3(3,0)  

MAP 4363 AS-MATH 3(3,0)  

MAP 4364 AS-MATH 3(3,0)  
Applied Boundary Value Problems II: PR: MAP 4363 or C.I. Legendre polynomials and Bessel functions. The theory of Sturm-Liouville. Separation of variables. Applications involving the wave equation, heat equation and Laplace's equation.
method, trapezoidal rule, multi-step methods, Runge-Kutta, error control, finite differences, implicit and explicit schemes, iterative methods, and stability.

MAP 5106 AS-MATH 3(3,0) Introduction to Quantitative Aspects of Modeling and Simulation: PR: MAC 2233 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.

MAP 5117 AS-MATH 3(3,0) Mathematical Modeling: PR: STA 4231, MAP 3463 or C.I. Introduction to modeling in industrial and scientific applications; techniques for studying statistical and deterministic models.

MAP 5336 AS-MATH 3(3,0) Ordinary Differential Equations and Applications: PR: MAP 3202 or C.I. Existence and uniqueness of solutions of differential equations, systems of ordinary differential equations, autonomous systems, phase plane analysis, stability, bifurcations.

MAP 5385 AS-MATH 3(3,0) Applied Numerical Mathematics: PR: MAP 3202 or C.I. Classical topics or numerical analysis and their applications, Rouché-Rutishauser, Richardson extrapolation, Gaussian quadrature schemes.

MAP 5396 AS-MATH 3(3,0) Splines and Data Fitting: PR: MAS 3106, MAS 3105, MAP 3202, or C.I. Univariate splines and their application to data fitting. Applications to regression analysis, differential and integral equations.

MAP 5404 AS-MATH 3(3,0) Mathematical Foundations for Industrial Engineering and Operations: PR: MAP 3202, ESI 5219 or equivalent, ESI 4312, or C.I. Methods of proof, set theory, basic elements of topology, real analysis, graph theory, and matrix analysis.


MAP 5426 AS-MATH 3(3,0) Special Functions: PR: MAP 3202 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.

MAP 5435 AS-MATH 3(3,0) Advanced Mathematics for Engineers: PR: MAP 3202 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.

MAP 5514 AS-MATH 3(3,0) Linear and Nonlinear Waves I: PR: MAP 3202, MAP 4363, 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.

MAP 5931 AS-MATH 1(1,0) Research Seminar: Four instructors will introduce the students to a research area by presenting necessary background and presenting current investigations.

MAR 3023 BA-MAR 3(3,0) Marketing: PR: Junior standing. Study of functions, institutions, and basic problems in marketing of goods and services in our domestic economy and abroad.

MAR 3023H BA-MAR 3(3,0) Marketing - Honors: PR: Junior standing, admission to the Honors Program. Honors introductory course in marketing. Topics include customer orientation, segmentation, positioning, strategic marketing management, implementation, and control.

MAR 3323 BA-MAR 3(3,0) Integrated Marketing Communication: PR: MAR 3023. Planning and execution of advertising, sales promotion, and public relations programs consistent with integrated marketing communications programs.

MAR 3391 BA-MAR 3(3,0) Professional Selling: PR: 3023. Written and verbal communications skills applied to marketing settings. A significant portion of the course is devoted to the study of professional selling.

MAR 3403 BA-MAR 3(3,0) Sales Force Management: PR: MAR 3023. An overview of the sales management process. Emphasis on sales program formulation and implementation.

MAR 3503 BA-MAR 3(3,0) Customer Behavior: PR: MAR 3023. End user and business customer buying behavior, building long-term customer relationships, segmentation of markets and positioning.

MAR 3613 BA-MAR 3(3,0) Marketing Analysis and Research: PR: MAP 3202, CR: One of the following; ECO 3401, ECO 3411, STA 2023, STA 3023. Analytical tools and their application to marketing problems and decision making. Forecasting, financial analysis, and acquisition of primary data through market research are emphasized.

MAR 3641 BA-MAR 3(3,0) Marketing Intelligence: PR: MAR 3023. Contemporary sources and applications of information concerning external forces impacting market decision making.

MAR 3880 BA-MAR 3(3,0) E-Marketing: PR: MAR 3023, CSE 2100. Course provides an in-depth study of the role of the internet in developing marketing strategies and plans.

MAR 4156 BA-MAR 3(3,0) International Marketing: PR: MAR 3023. Investigates strategy, policy and the variables in international marketing decisions.

MAR 4231 BA-MAR 3(3,0) Retailing Management: PR: MAR 3023. Analysis of the field of retailing. Emphasis on planning for profit through management, inventory control, etc.

MAR 4711 BA-MAR 3(3,0) Sports Marketing: PR: MAR 3023. Study of marketing as it applies to the sports and leisure industry.

MAR 4712 BA-MAR 3(3,0) Healthcare Marketing: PR: MAR 3023. Study of marketing as it applies to healthcare manufacturers, intermediaries and providers.


MAR 4803 BA-MAR 3(3,0) Marketing Management: PR: MAR 3503 and MAR 3613. Planning, organizing, implementing, monitoring and controlling marketing programs to effectively compete in dynamic and diverse business environments.

MAR 4804 BA-MAR 3(3,0) Marketing Strategy: PR: MAR 4803. Marketing problems are explored, with emphasis on strategy formulation and integrative marketing decision-making.

MAR 4841 BA-MAR 3(3,0) Services Marketing: PR: 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.

MAR 4941 BA-MAR 3(3,0) Marketing Internship: PR: Marketing major, approval of internship proposal, consent of department chair. Provides student with supervised, market-related work experience in a sponsoring organization. Application required.

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.

MAR 5941 BA-MAR 3(3,0) Small Business Consulting: PR: Graduate status, all foundation classes, FIN 4006, MAR 6816. Provides students opportunity to apply knowledge learned in classroom to real business situations. Open only to undergraduate majors in the College of Business Administration with approval of the department chair.

MAS 3105 AS-MATH 4(4,0) Matrix and Linear Algebra: PR: MAC 2312 or C.I. Matrices, determinants, vector spaces in Rn, linear independence, basis, solutions of systems, range of linear transformations, eigenvectors, Jordan Form, matrix functions, quadratic forms.

MAS 3106 AS-MATH 4(4,0) Linear Algebra: PR: MHF 3302, MAS 3105, or C.I. Abstract vector spaces, linear transformations, isomorphisms, projections, inner products, the spectral theorem, Jordan Canonical Form. (Only offered spring semester).

MAS 3203 AS-MATH 3(3,0) Introduction to Number Theory: PR: MHF 3302 or C.I. The course will include the following topics: inductive reasoning, factorization, the division algorithm and congruences.

MAS 4301 AS-MATH 3(3,0) Algebraic Structures: PR: MHF 3302 or C.I. An introduction to groups, rings and fields.

MAS 5145 AS-MATH 3(3,0) Advanced Linear Algebra and Matrix Theory: PR: MAS 3105. LU and LDL decompositions, inner product spaces, systems of linear equations, eigenvalues and canonical forms, variational principles and applications.

MAS 5311 AS-MATH 3(3,0) Abstract Algebra with Applications: PR: MAS 4301 or undergraduate abstract algebra. Group actions, the class equation, Sylow theorems, polynomial rings, Euclidian domains, principal ideal domains, field extensions, modules, and semi-simple rings.

MAT 5711 AS-MATH 3(3,0) Scientific Computing: PR: MAC 2133, MAP 3202 or C.I. Basic programming skills using Mathematica, Maple, Matlab, or Java in solving basic scientific computing problems; preparing students for advanced computational methods and algorithms.


evaluating microbial structure and function, metabolism, growth, genetics, virology, environmental control, ecology, pathology, and laboratory techniques.

MCB 3203 HPA-M&M 3(3,0)
Pathogenic Microbiology: PR: MCB 3020C or C.I. Microorganisms producing disease in man and other animal species; means of transmission; protection against disease.

MCB 3203L HPA-M&M 1(0,3)
Pathogenic Microbiology: CR: MCB 3203. Laboratory investigation of pathogenic microorganisms, with emphasis on isolation and identification of pathogenic microorganisms.

MCB 3522H HPA-M&M 3(3,0)

MCB 4114C HPA-M&M 4(3,3)

MCB 4414 HPA-M&M 3(3,0)
Microbial Metabolism: PR: MCB 3020C and BCH 4053. Interrelationships between cell structure, function and genetic traits in microorganisms. The interaction between microorganisms and their nutritional environment.

MCB 4603 HPA-M&M 3(3,0)
Environmental Microbiology: PR: PCB 3034 and MCB 3020C. Interrelationships between the biological activities of microorganisms and their terrestrial and aquatic environments.

MCB 5205 HPA-M&M 3(3,0)
Infectious Processes: PR: MCB 3020C or C.I. Discussion of current theories of the infectious process and the response of host cells and tissue to infection.

MCB 5225 HPA-M&M 3(3,0)
Molecular Biology of Disease: PR: Graduate standing or C.I. An in-depth study of the molecular biological mechanisms of diseases in experimental animal models of human populations.

MCB 5505 HPA-M&M 3(3,0)
Molecular Virology: PR: graduate standing or C.I. An in-depth overview of the fundamental aspects and current concerns in modern virology including HIV, tumor viruses Prion disease, virus-host interaction, genome replication and pathogenesis.

MCB 5527 HPA-M&M 3(3,0)
Genetic Engineering and Biotechnology: PR: PCB 3523 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 pharmaceuticals, recombinant proteins will be discussed in depth.

MCB 5654 HPA-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.

MCF 5932 HPA-M&M Variable Current Topics in Molecular Biology: PR: Graduate standing or C.I. Selected current research topics from the primary literature reflecting recent advances in molecular biology. May be repeated for credit.

MGF 1106 AS-MATH 3(3,0)
Finite Mathematics: PR: Intermediate algebra or 2 years of high school algebra or C.I. Introduction to logical structure, sets, probability, geometry, arrays, games. This course is intended for students who are not planning to take further courses in mathematics.

MHF 2104 AS-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 applied to elementary discrete structures.

MHF 3302 AS-MATH 3(3,0)

MHF 4404 AS-MATH 3(3,0)

MHS 5005 ED-CFCI 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.

MLS 3200 C HPA-M&M 2(1,3)
Diagnostic Microbiology: PR: Admission to the professional phase of the MLS program or C.I. Overview of the hematopoietic system and disease states associated with blood and bone marrow.

MLS 3305 HPA-M&M 3(3,0)
Hematology: PR: Admission to the professional phase of the MLS program or C.I. Overview of the hematopoietic system and disease states associated with blood and bone marrow.

MLS 3305L HPA-M&M 1(0,3)
Hematology Lab: PR: MLS 3305C. Practical laboratory procedures routinely performed for analyzing hematologic abnormalities.

MLS 3705 HPA-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.

MLS 4334C HPA-M&M 3(3,2)
Hemostasis: Overview of hemostatic and fibrinolytic conditions at the time of disease and the relationship of lab tests to diagnosis.

MLS 4420C HPA-M&M 1(1,2)
Clinical Mycology: PR: Admission to the professional phase of the MLS program with C.I. Instruction and laboratory practice in the isolation and identification of fungi associated with mycotic infections of man.

MLS 4430C HPA-M&M 2(1,2)
Clinical Parasitology: PR: Admission to the professional phase of the MLS program or C.I. Instruction and laboratory practice in the examination and study of clinical material for the detection and identification of animal parasites.

MLS 4460 HPA-M&M 4(2,6)
Clinical Pathogenic Microbiology: PR: or CR: MCB 3203 and admission to the professional phase of the MLS program. Isolation and pathogenic bacteria and serological methods; interpretation of abnormal results, with correlation to disease.

MLS 4505C HPA-M&M 3(3,0)

MLS 4550 HPA-M&M 4(2,6)
Clinical Immunohematology: PR: Admission to the professional phase of the MLS program or C.I. Investigation of incompatible crossmatches; antibody identification, leukocyte antigens and identification procedures, problem solving.

MLS 4625 HPA-M&M 3(3,0)
Advanced Clinical Chemistry I: PR: CHM 2210. Correlation of lab tests to specific disease states including deviations in carbohydrate, amino acid metabolism, renal function, gastric function, electrolytes, and blood gases.

MLS 4625L HPA-M&M 1(0,3)
Advanced Clinical Chem Lab: CR: MLS 4625. Laboratory procedures routinely performed in a clinical chemistry laboratory.

MLS 4630 HPA-M&M 3(3,0)
Advanced Clinical Chemistry II: PR: Admission to professional phase of MLS or C.I. Correlation of laboratory tests to specific human disease states.

MLS 4630L HPA-M&M 1(0,3)
Advanced Clinical Chem II Lab: CR: CHM 2205 or C.I. CR: MLS 4630C. Performance of laboratory procedures routinely used in a clinical chemistry laboratory.

MLS 4830C HPA-M&M 4(4,8)
Interpretive & Practical Clinical Chemistry: PR: Admission to the MLS program, MLC 4630C, MLS 4630C. Clinical instruction and practice in the clinical chemistry laboratory. Case studies, chemist review, hands on practice both in the student lab and affiliate.

MLS 4831C HPA-M&M 4(4,8)
Interpretive & Practical Immunohematology: PR: Admission to the MLS program, MLS 4550, MLS 4560C. Advanced study of principles of immunohematology, application and performance of techniques to solve problems in blood banking will be included.

MLS 4832C HPA-M&M 4(4,8)
Interpretive & Practical Hematology: PR: Admission to the MLS program, MLS 3305C, MLS 4334C. Advanced study of hematology and pathophysiological correlation to hematological disorders. Correlation of case studies and clinical practice in both student labs and clinical affiliates.

MLS 4833C HPA-M&M 4(4,8)
Diagnostic Microbiology: PR: Admission to the MLS program, MLS 4460. Practical application of modern bacterial procedures with clinical specimens to include mycology & virology and appropriate quality control. Clinical practice in both student lab and affiliate.

MLS 4834C HPA-M&M 4(4,8)
Advanced Instrumentation: PR: Admission to the MLS program, MLS 4334C. Preparation & practice of techniques impacting the clinical laboratory to include flow cytometry, PCR, LIS, robotics. Case studies will be a fundamental part of this course.

MLS 4910 HPA-M&M 1(1,0)
Introduction to Clinical Research: PR: MLS 3220C, MLS 4625C, MLS 4560S. Introduces MLS students to different types of research within the clinical setting.

MLS 4933 HPA-M&M 1(1,0)
Medical Technology Seminar: PR: MCB 3020C or C.I. Selected current research topics from the primary literature reflecting recent advances in molecular biology. May be repeated for credit.

MCM 5100 HPA-M&M 3(3,0)
Current Concepts in Laboratory Management: Overview of current administration and supervision concepts in a clinical laboratory to include laboratory planning, personnel administration, and financial management.

MMC 3420 AS-COMM 3(3,0)
Mass Media Research Methods: PR:
problem solving and critical thinking skills; apply concepts of self, self-confidence, and leadership skills; develop understanding of the Army; describes legal aspects of decision making and expected behavior. May be repeated for credit.

Leadership and Ethics

MSL 1001C ECS-AROTC 2(1,1)
Foundations of Officerhood: Examines the unique duties and responsibilities of officers, organization and role of the Army, reviews skills pertaining to fitness and communication, and analyze Army values and expected behavior. May be repeated for credit.

MSL 1002C ECS-AROTC 2(1,1)
Basic Leadership: Presents fundamental leadership concepts and doctrine; practice basic skills that underlie effective problem solving; examine the officer experience.

MSL 2101C ECS-AROTC 2(1,1)
Individual Leadership Studies: Develops knowledge of self, self-confidence, and leadership skills; develop problem solving and critical thinking skills; apply communication and conflict resolution skills.

MSL 2102C ECS-AROTC 2(1,1)
Leadership and Teamwork: Focusses on self-development guided by knowledge of self and group processes; challenges current beliefs, knowledge and skills.

MSL 3201C ECS-AROTC 4(3,1)
Leadership and Problem Solving: PR: Junior standing. Examines skills that underlie effective problem solving; analyzes military missions and plan military operations; and executes squad battle drills.

MSL 3202C ECS-AROTC 4(3,1)
Leadership and Ethics: PR: MSL 3201C. Probes leadership responsibilities that foster an ethical command climate; develops cadet leadership competencies; applies principles and techniques of effective written and oral communication.

MUC 4301C ECS-AROTC 4(3,1)
Leadership and Management: PR: MSL 3201C. Discuss staff organization, functions, and processes, analyze counseling responsibilities and methods, apply leadership and problem solving principles to a complex case study/simulation.

MUC 4302C ECS-AROTC 4(3,1)
Officiership: PR: MUC 4301C. Capstone course to explore topics relevant to second lieutenants entering the Army; describes legal aspects of decision making and leadership; and analyzes Army organization from tactical to strategic level.

MTG 4212 AS-MATH 4(4,0)
Modern Geometries: PR: MAC 2311 or C.I. Sets of axioms and finite geometries, groups of transformations, Euclidean motions of 2-space and 3-space, convexity in 2-space and 3-space. Euclidean geometries of polygon and circular constructible numbers, constructions and non-Euclidean geometry.

MTG 4302 AS-MATH 3(3,0)
Introduction to Topology: PR: MGF 3302 or C.I. Metric spaces, topological spaces, limit points, continuity, compactness, and connectedness.

MTG 5256 AS-MATH 3(3,0)
Differential Geometry: PR: MAA 4227 or C.I. Differentiable manifolds, tangent space and tangent bundle, flows and vector fields, Lie derivatives, cotangent space and cotangent bundles, Riemann metrics, connections and geodesics, applications in classical mechanics.

MUC 1101C AS-MUSIC 2(1,1)
Composition I: PR: Open to qualified majors and non-music majors with C.I. Creative work in small forms. May be repeated for credit.

MUC 2104C AS-MUSIC 2(1,1)
Composition II: PR: MUC 1101C and Music or composition major. Continuation of Composition I. Competence determined by faculty jury. May be repeated for credit.

MUC 3105C AS-MUSIC 2(1,1)
Composition III: PR: MUC 1101C and MUC 2104C. Continuation of Composition II. Competence determined by faculty jury.

MUC 3311 AS-MUSIC 3(2,2)

MUC 4106C AS-MUSIC 2(1,1)
Composition IV: PR: MUC 1101C, MUC 2104C, MUC 3105C. Continuation of Composition III. Competence determined by faculty jury.

MUC 4313 AS-MUSIC 3(3,0)
MIDI Sequencing III: PR: MUC 4441, Junior standing or C.I. Technical aspects of MIDI usage, including MIDI specification, sysEx, and MIDI machine control.

MUC 4441 AS-MUSIC 3(3,0)
MIDI Sequencing II: PR: MUC 3111, Junior standing, and C.I. Continuation of sequencing, sampling, and interactive digital music technology.

MUC 4611C AS-MUSIC 3(2,1)
Computer Animation and Digital Music: PR: MUC 4441 or FIL 3288C and C.I. Music students and computer animation students work collaboratively to produce animation projects with original musical scores and sound effects.

MUC 4612C AS-MUSIC 3(2,2)

MUE 1291 AS-MUSIC 1(0,1)
Classroom Instruments: Instruction in recorder and guitar, as it applies to classroom usage for music educators.

MUE 2040 AS-MUSIC 2(2,0)

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.

MUE 2440 AS-MUSIC 1(0,2)
String Techniques: PR: MUCED major, Junior standing or C.I. Class instruction in string playing and pedagogical techniques.

MUE 2450 AS-MUSIC 1(1,0)
Woodwind Techniques I: PR: MUCED major, Junior standing or C.I. Class instruction in woodwind playing and pedagogical techniques.

MUE 2460 AS-MUSIC 1(0,2)
Brass Techniques: PR: MUCED major, Junior standing or C.I. Class instruction in brass playing and pedagogical techniques. May be repeated for credit.

MUE 2470 AS-MUSIC 1(0,2)
Percussion Techniques: PR: MUCED major, Junior standing or C.I. Class instruction in percussion playing and pedagogical techniques. May be repeated for credit.

MUE 3210 ED-CFCS 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.

MUE 3451 AS-MUSIC 1(1,0)
Woodwind Techniques II: PR: MUC 2450. MUCED major, Junior standing or C.I. Continuation of Woodwind Techniques I, with emphasis on double reeds.

MUE 4311 ED-CFCS 2(2,0)
Elementary School Music Methods: PR: Junior standing. MUCED major. Organization and administration of instruction for comprehensive music education, K-6, instructional planning, techniques, and materials for elementary music education.

MUE 4330 ED-CFCS 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.

MUE 4350 ED-TLP 2(2-3,2-3,0)
General Music Pre-K through Grade 8: PR: Consent of instructor. Designed for music educators. Exploration of music materials and teaching strategies for enhancing students' learning through music. Experience with recorder, movement, choral, conduct, and curriculum inclusion. Implementation project available. May be repeated for credit. Graded S/U.

MUE 4480C AS-MUSIC 1(1,1)

MUE 4481 AS-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.

MUG 3104 AS-MUSIC 2(2,1)
Basic Conducting: Fundamental techniques and practice in conducting.

MUG 3202 AS-MUSIC Variable Choral Conducting and Materials: PR: MUG 3104. Fundamental principles of choral conducting and rehearsal techniques including an examination of materials.

MUG 3300 AS-OASIS Variable Instrumental Conducting and Materials: PR: MUG 3104. Fundamental principles of instrumental conducting and rehearsal techniques including an examination of materials.
Survey of German song literature.

of songs written by American or English composers.

ture from 16th century to present.

of string solo/chamber music literature from the 16th century to the present.

of stringed keyboard literature from the 16th century.

principles and techniques for listening to music.

Audience Development, Marketing, and Fund-Raising

ining the fundamental elements of administration, fundraising, and marketing.

MUL 3444 AS-MUSIC 1(1,0)
Mallet Ensemble: PR: C.I. Preparation and performance of music for mallet ensemble. May be repeated for credit.

MUN 3453 AS-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.

MUN 3452 AS-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.

MUN 3443 AS-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.

MUN 3442 AS-MUSIC 1(0,2)
Brass Literature: PR: Music major (Brass), Junior standing, C.I. Survey of brass solo/ensemble literature from 16th century to present.

MUL 3401 AS-MUSIC 2(1,1)
Keyboard Literature: PR: Junior standing, C.I. Study and performance of music for small ensembles. May be repeated for credit.

MUL 3323 AS-MUSIC 1(0,3)
Women's Chorus: PR: Audition and C.I. Study and performance of music for women's voices. Open to all students. May be repeated for credit.

MUL 3313 AS-MUSIC 1(0,3)
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.

MUL 3312 AS-MUSIC 1(0,3)
Choir: PR: C.I. Open to all students by audition. Study and performance of music for mallet ensemble. May be repeated for credit.

MUL 3301 AS-MUSIC 2(1,1)
Piano Literature II: PR: MUL 3400. Continuation of MUL 3400.

MUL 3270 AS-MUSIC 3(3,0)

MUL 3200 AS-MUSIC 2(1,1)
Instrumental Literature: PR: Major in Music or C.I. Survey of stringed keyboard literature from the 16th century to the present, with emphasis on technical, formal and performance problems.

MUL 3143 AS-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.

MUL 3123 AS-MUSIC 1(0,3)
Concert Band: Open to all students with audition. Study and performance of music for woodwind ensembles. May be repeated for credit.

MUL 3113 AS-MUSIC 2(0,8)
Marching Band: PR: Admission by audition. Preparation for appearance at football games and special occasions. May be repeated for credit.

MUL 3041 AS-MUSIC 2(1,1)
Keyboard Literature: PR: Junior standing, C.I. Study and performance of music for small ensembles. May be repeated for credit.

MUL 3023 AS-MUSIC 1(0,2)
Synthesizer Ensemble: PR: C.I. and keyboard ability. Rehearsal and performance of music for synthesizers. May be repeated for credit.

MUN 2023 AS-MUSIC 1(0,2)
String Ensemble: PR: C.I. and keyboard ability. Rehearsal and performance of music for synthesizers. May be repeated for credit.

MUN 2442 AS-MUSIC 1(1,0)
Percussion/Mallet Ensemble: PR: C.I. Preparation and performance of music for percussion and mallets. May be repeated for credit.

MUN 2342 AS-MUSIC 1(0,2)
Brass Ensemble: PR: C.I. Open to all students by audition. Study and performance of music for small ensembles. May be repeated for credit.

MUN 2303 AS-MUSIC 1(0,3)
Vocal Chamber Ensemble: PR: C.I. Study and performance of music for small ensembles. May be repeated for credit.

MUN 2203 AS-MUSIC 1(0,3)
Vocal Ensemble: PR: C.I. Study and performance of music for small ensembles. May be repeated for credit.

MUN 2103 AS-MUSIC 1(0,3)
Symphonic Wind Ensemble: PR: C.I. Study and performance of music for woodwind ensembles. May be repeated for credit.

MUN 2001 AS-MUSIC 1(0,3)
Ensemble: PR: Open to all students by audition. Study and performance of music for small ensembles. May be repeated for credit.

MUL 2016 AS-MUSIC 3(3,0)
Evolution of Jazz: Survey of jazz literature and performance.
MUT 1242 Examine traditional harmony, melody, and Jazz Theory I
MUT 3170 AS-MUSIC 2(1,1) Required for Music majors. May repeat one time.
MUT 3571 AS-MUSIC 3(3,0) 20th Century Musical Analysis: PR: MUT 2116 and MUT 2117 of equivalent. Overview of 20th century music, including musical compositions, techniques of musical analysis, and styles.
MUT 3641 AS-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.
MUT 3642 AS-MUSIC 2(0,2) Jazz Improvisation II: PR: MUT 3641 Junior standing or C.I. A continuation of Jazz Improvisation I.
MUT 4031 AS-MUSIC 1(1,0) Review of Music Theory: CR: C.I. A comprehensive review of harmonic and analytic skills. May be repeated for credit.
MUT 4344 AS-MUSIC 1(1,0) Seminar in Music Arranging: Scoring for choral and instrumental ensembles.
MUT 5383 AS-MUSIC 3(3,0) Counterpoint: PR: MUT 3170. Continuation of Jazz Theory I; examining jazz harmony, melody, and rhythm.
MUT 3401 AS-MUSIC 3(3,0) Counterpoint: PR: MUT 2117. Discuss, analyze, and write counterpoint exercises. 18th, 19th, and 20th scores will be examined.
MUT 2117 AS-MUSIC 1(1,0) French Horn I: PR: Major in music or consent of chair; audition. May be repeated for credit.
MUT 2118 AS-MUSIC 1(1,0) French Horn II: PR: Major in music or consent of chair; audition. May be repeated for credit.
MUT 1004 AS-MUSIC 3(3,0) Fundamentals of Music I: Basic music theory and reading music at the keyboard.
MUT 1241 AS-MUSIC 1(0,2) Ear Training and Sight Singing I: Aural and visual comprehension of elements of music - rhythm, melody, harmony, form. Intended to be taken with MUT 1111.
MUT 1242 AS-MUSIC 1(0,2) Ear Training and Sight Singing II: PR: MUT 1241. Continuation of MUT 1241. Intended to be taken with MUT 1112.
MUT 2227 AS-MUSIC 1(0,2) Ear Training and Sight Singing IIB: PR: MUT 2246. Continuation of MUT 2246. Intended to be taken with MUT 2117.

MUS 4905 AS-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.
MUS 4954 AS-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 S/U. May repeat one time.
MUS 5365 AS-MUSIC 3(3,0) Music and Technology: PR: Graduate Student. The emergence of technology in music including MIDI, CD-ROM, and the high-tech music classroom.
MUT 1002 AS-MUSIC 3(3,0) Fundamentals of Music II: PR: MUT 1004. Theory and sight singing skills.
MUT 1241 AS-MUSIC 1(0,1) Jazz Theory I: PR: MUT 1111, MUT 1112, MUT 1241, MUT 1242. Examine traditional harmony, melody, and rhythm.
MVB 5451 AS-MUSIC 2(1,0)
Trumpet V: PR: C.I. May be repeated for credit.

MVB 5452 AS-MUSIC 2(1,0)
French Horn V: PR: C.I. May be repeated for credit.

MVB 5453 AS-MUSIC 2(1,0)
Trombone V: PR: C.I. May be repeated for credit.

MVB 5454 AS-MUSIC 2(1,0)
Baritone V: PR: C.I. May be repeated for credit.

MVB 5455 AS-MUSIC 2(1,0)
Tuba V: PR: C.I. May be repeated for credit.

MVK 1111 AS-MUSIC 1(0,2)
Class Piano I: Class instruction for beginning piano students. Not open to music majors whose major performing medium is piano.

MVK 1211 AS-MUSIC 1(0,1)

MVK 1213 AS-MUSIC 1(1,1)

MVK 1411 AS-MUSIC 2(1,1)
Piano I: PR: Major in music or consent of charp-erson; audition. May be repeated for credit.

MVK 1413 AS-MUSIC 2(1,1)
Organ I: PR: Major in music or consent of charp-erson; audition. May be repeated for credit.

MVK 1800 AS-MUSIC 2(2,0)
Keyboard Class I: Keyboard training for non-Music students with no prior keyboard training.

MVK 1801 AS-MUSIC 2(2,0)
Keyboard Class II: PR: MVK 1800. Continuation of Keyboard class I

MVK 2121 AS-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.

MVK 2421 AS-MUSIC 2(1,1)
Piano II: PR: MVK 1411 and competence determined by faculty jury. Continuation of MVK 1411. May be repeated for credit.

MVK 2423 AS-MUSIC 2(1,1)
Organ II: PR: MVK 1413 and competence determined by faculty jury. Continuation of MVK 1413. May be repeated for credit.

MVK 3131 AS-MUSIC 1(0,2)
Class Piano III: PR: MVK 1121 or C.I. Continuation of MVK 1121.

MVK 3431 AS-MUSIC 2(1,1)
Piano III: PR: MVK 2421 and competence determined by faculty jury. Continuation of MVK 2421. May be repeated for credit.

MVB 3433 AS-MUSIC 2(1,1)
Organ III: PR: MVK 2423 and competence determined by faculty jury. Continuation of MVK 2423. May be repeated for credit.

MVK 4141 AS-MUSIC 1(0,2)
Class Piano IV: PR: MVK 1131 or C.I. Continuation of MVK 1131.

MVK 4441 AS-MUSIC 2(1,1)
Piano IV: PR: MVK 3431 and competence determined by faculty jury. Continuation of MVK 3431. May be repeated for credit.

MVK 4443 AS-MUSIC 2(1,1)
Organ IV: PR: MVK 3433 and competence determined by faculty jury. Continuation of MVK 3433. May be repeated for credit.

MVK 4640 AS-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.

MVK 4641 AS-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.

MVK 4960 AS-MUSIC 0(1,0)

MVK 5451 AS-MUSIC 2(1,0)
Piano V: PR: C.I. May be repeated for credit.

MVK 5453 AS-MUSIC 2(1,0)
Organ V: PR: C.I. May be repeated for credit.

MVO 1214 AS-MUSIC 1(0,1)

MVP 2421 AS-MUSIC 2(1,1)
Percussion I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVP 2422 AS-MUSIC 2(1,1)
Percussion II: PR: MVP 2421 and competence determined by faculty jury. Continuation of MVP 2421. May be repeated for credit.

MVP 3431 AS-MUSIC 2(1,1)
Percussion III: PR: MVP 2421 and competence determined by faculty jury. Continuation of MVP 2421. May be repeated for credit.

MVP 3630 AS-MUSIC 2(2,0)
Percussion Pedagogy: PR: Major in music and observation of procedures. May be repeated for credit.

MVP 4441 AS-MUSIC 2(1,1)

MVP 4641 AS-MUSIC 1(1,0)
Piano Pedagogy II: PR: C.I. Continuation of MVP 4640. Emphasis on intermediate through advanced levels. May be repeated for credit.

MVP 4960 AS-MUSIC 0(1,0)

MVP 5451 AS-MUSIC 2(1,0)
Piano V: PR: C.I. May be repeated for credit.

MVS 1211 AS-MUSIC 1(1,1)

MVS 1214 AS-MUSIC 1(1,1)

MVS 1414 AS-MUSIC 2(1,1)
Bass I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVS 1415 AS-MUSIC 2(1,1)
Harp I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVS 1416 AS-MUSIC 2(1,1)
Guitar I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVS 2421 AS-MUSIC 2(1,1)
Violin II: PR: MVS 1411 and competence determined by faculty jury. Continuation of MVS 1411. May be repeated for credit.

MVS 2422 AS-MUSIC 2(1,1)
Viola II: PR: MVS 1412 and competence determined by faculty jury. Continuation of MVS 1412. May be repeated for credit.

MVS 2423 AS-MUSIC 2(1,1)
Cello II: PR: MVS 1413 and competence determined by faculty jury. Continuation of MVS 1413. May be repeated for credit.

MVS 2424 AS-MUSIC 2(1,1)
Bass II: PR: MVS 1414 and competence determined by faculty jury. Continuation of MVS 1414. May be repeated for credit.

MVS 2425 AS-MUSIC 2(1,1)
Harp II: PR: MVS 1415 and competence determined by faculty jury. Continuation of MVS 1415. May be repeated for credit.

MVS 2426 AS-MUSIC 2(1,1)
Guitar II: PR: MVS 1416 and competence determined by faculty jury. Continuation of MVS 1416. May be repeated for credit.

MVS 3431 AS-MUSIC 2(1,1)
Violin III: PR: MVS 2421 and competence determined by faculty jury. Continuation of MVS 2421. May be repeated for credit.

MVS 3432 AS-MUSIC 2(1,1)
Viola III: PR: MVS 2422 and competence determined by faculty jury. Continuation of MVS 2422. May be repeated for credit.

MVS 3433 AS-MUSIC 2(1,1)
Cello III: PR: MVS 2423 and competence determined by faculty jury. Continuation of MVS 2423. May be repeated for credit.

MVS 3434 AS-MUSIC 2(1,1)
Bass III: PR: MVS 2424 and competence determined by faculty jury. Continuation of MVS 2424. May be repeated for credit.
and materials for teaching string instruments in a
Singing Broadway

MVV 2322 AS-MUSIC 2(1,1)

Singing Broadway: PR: Concurrent enrollment in
MVV 1411 or MVV 3421 or MVV 4441 or MVV 4441.
Hearing and singing the American music called
"Broadway." Students learn singing techniques utiliz-
ing principles of the Italian "Bel Canto" school. May
be repeated for credit.

MVV 2421 AS-MUSIC 2(1,1)

Voice II: PR: MVV 1411 and competence determined
determined by faculty jury. Continuation of MVV 1411. Major in
music or consent of chair; audition. Private and class
lessons. May be repeated for credit.

MVV 4441 AS-MUSIC 2(1,1)

Voice IV: PR: MVV 3431 and competence deter-
determined by faculty jury. Continuation of MVV 3431.
May be repeated for credit.

MVV 4640 AS-MUSIC 1(1,0)

Voice Pedagogy I: PR: C.I. Methods, materials for
vocalists; teachers, conductors; voice production;
diagnosis of problems and correction; demonstration
and observation of teaching; beginning to intermedi-
ate levels. May be repeated for credit.

MVV 4641 AS-MUSIC 1(1,0)

Voice Pedagogy II: PR: C.I. Continuation of MVV
4640. Intermediate to advanced levels. May be
repeated for credit.

MVV 5453 AS-MUSIC 2(1,1)

Secondary Oboe: PR: MVW 3432 and competence
determined by faculty jury. Continuation of MVW 3432.
May be repeated for credit.

MVW 2322 AS-MUSIC 1(1,0)

Singing Broadway: PR: Concurrent enrollment in
MVV 1411 or MVV 3421 or MVV 4441 or MVV 4441.
Hearing and singing the American music called
"Broadway." Students learn singing techniques utiliz-
ing principles of the Italian "Bel Canto" school. May
be repeated for credit.

MVW 2421 AS-MUSIC 2(1,1)

Voice II: PR: MVW 1411 and competence determined
determined by faculty jury. Continuation of MVW 1411. Major in
music or consent of chair; audition. Private and class
lessons. May be repeated for credit.

MVW 4441 AS-MUSIC 2(1,1)

Voice III: PR: MVW 2421 and competence deter-
determined by faculty jury. Continuation of MVW 2421. May
be repeated for credit.

MVW 4442 AS-MUSIC 2(1,1)

Viola IV: PR: MVW 3432 and competence determined by
faculty jury. Continuation of MVW 3432. May be
repeated for credit.

MVW 4443 AS-MUSIC 2(1,1)

Bassoon IV: PR: MVW 3434 and competence deter-
determined by faculty jury. Continuation of MVW 3434.
May be repeated for credit.

MVW 4640 AS-MUSIC 1(1,0)

Secondary Flute: PR: Consent of Music Chair; CR:
Performing ensemble. Advanced instruction in flute.
Intended for non-music majors. May be repeated for
credit.

MVW 4641 AS-MUSIC 1(1,0)

Secondary Oboe: PR: Consent of Music Chair.
Intended for non-music majors. May be repeated for
credit.

MVW 5453 AS-MUSIC 2(1,0)

Secondary Clarinet: PR: Consent of Music Chair.
Intended for non-music majors. May be repeated for
credit.

MVW 5454 AS-MUSIC 2(1,0)

Bassoon V: PR: Consent of Music Chair. CR:
Performing ensemble. Advanced instruction in bassoon.
Intended for non-music majors. May be repeated for
credit.

MVW 5455 AS-MUSIC 2(1,0)

Violin V: PR: C.I. May be repeated for credit.

MVW 5456 AS-MUSIC 2(1,0)

Flute V: PR: C.I. May be repeated for credit.

MVW 5457 AS-MUSIC 2(1,0)

Secondary Oboe: PR: Consent of Music Chair.
Intended for non-music majors. May be repeated for
credit.

MVW 5458 AS-MUSIC 2(1,0)

Secondary Clarinet: PR: Consent of Music Chair.
Intended for non-music majors. May be repeated for
credit.

MVW 5459 AS-MUSIC 2(1,0)

Bassoon V: PR: Consent of Music Chair. CR:
Performing ensemble. Advanced instruction in bassoon.
Intended for non-music majors. May be repeated for
credit.

MVW 5460 AS-MUSIC 2(2,0)

Woodwind Pedagogy: PR: C.I. Methods, materials for
teaching individuals and woodwind ensembles.

MVW 4440 AS-MUSIC 2(1,0)

Secondary Bassoon: PR: Consent of Music Chair.
Intended for non-music majors. May be repeated for
credit.

MVW 4441 AS-MUSIC 2(1,1)

Flute I: PR: Major in music or consent of chair; audi-
ition. May be repeated for credit.

MVW 4442 AS-MUSIC 2(1,1)

Oboe I: PR: Major in music or consent of chair; audi-
ition. May be repeated for credit.

MVW 4443 AS-MUSIC 2(1,1)

Clarinet I: PR: Major in music or consent of chair;
audition. May be repeated for credit.

MVW 4444 AS-MUSIC 2(1,1)

Bassoon IV: PR: MVW 3434 and competence deter-
determined by faculty jury. Continuation of MVW 3434.
May be repeated for credit.

MVW 4445 AS-MUSIC 2(1,1)

Bassoon V: PR: MVW 3435 and competence deter-
determined by faculty jury. Continuation of MVW 3435.
May be repeated for credit.

MVW 5451 AS-MUSIC 2(1,0)

Flute V: PR: C.I. May be repeated for credit.

MVW 5452 AS-MUSIC 2(1,0)

Oboe V: PR: C.I. May be repeated for credit.

MVW 5453 AS-MUSIC 2(1,0)

Clarinet V: PR: C.I. May be repeated for credit.

MVW 5454 AS-MUSIC 2(1,0)

Bassoon V: PR: C.I. May be repeated for credit.

MVW 5455 AS-MUSIC 2(1,0)

Violin V: PR: MVW 1411 and competence determined by
faculty jury. Continuation of MVW 1412. May be repeated for
credit.

MVW 2423 AS-MUSIC 2(1,1)

Clarinet II: PR: MVW 1413 and competence deter-
determined by faculty jury. Continuation of MVW 1413.
May be repeated for credit.

MVW 2424 AS-MUSIC 2(1,1)

Bassoon II: PR: MVW 1414 and competence deter-
determined by faculty jury. Continuation of MVW 1414.
May be repeated for credit.

MVW 2425 AS-MUSIC 2(1,1)

Saxophone II: PR: MVW 1415 and competence deter-
determined by faculty jury. Continuation of MVW 1415. May be repeated for credit.

MVW 3431 AS-MUSIC 2(1,1)

Flute III: PR: MVW 2421 and competence determined by
faculty jury. Continuation of MVW 2421. May be repeated for credit.

MVW 3432 AS-MUSIC 2(1,1)

Oboe III: PR: MVW 2422 and competence deter-
determined by faculty jury. Continuation of MVW 2422. May
be repeated for credit.

MVW 3433 AS-MUSIC 2(1,1)

Clarinet III: PR: MVW 2423 and competence deter-
determined by faculty jury. Continuation of MVW 2423. May be
repeated for credit.

MVW 3434 AS-MUSIC 2(1,1)

Bassoon III: PR: MVW 2424 and competence deter-
determined by faculty jury. Continuation of MVW 2424. May be repeated for credit.

MVW 3435 AS-MUSIC 2(1,1)

Saxophone III: PR: MVW 2425 and competence deter-
determined by faculty jury. Continuation of MVW 2425. May be repeated for credit.

MVW 3630 AS-MUSIC 2(2,0)

Woodwind Pedagogy: PR: C.I. Methods, materials for
teaching individuals and woodwind ensembles.

MVW 4441 AS-MUSIC 2(1,1)

Flute IV: PR: MVW 3431 and competence deter-
determined by faculty jury. Continuation of MVW 3431. May
be repeated for credit.

MVW 4442 AS-MUSIC 2(1,1)

Oboe IV: PR: MVW 3432 and competence deter-
determined by faculty jury. Continuation of MVW 3432. May
be repeated for credit.

MVW 4443 AS-MUSIC 2(1,1)

Clarinet IV: PR: MVW 3433 and competence deter-
determined by faculty jury. Continuation of MVW 3433. May
be repeated for credit.

MVW 4444 AS-MUSIC 2(1,1)

Bassoon IV: PR: MVW 3434 and competence deter-
determined by faculty jury. Continuation of MVW 3434. May
be repeated for credit.

MVW 4445 AS-MUSIC 2(1,1)

Bassoon V: PR: MVW 3435 and competence deter-
determined by faculty jury. Continuation of MVW 3435. May be repeated for credit.

MVW 5451 AS-MUSIC 2(1,0)

Flute V: PR: C.I. May be repeated for credit.

MVW 5452 AS-MUSIC 2(1,0)

Oboe V: PR: C.I. May be repeated for credit.

MVW 5453 AS-MUSIC 2(1,0)

Clarinet V: PR: C.I. May be repeated for credit.

MVW 5454 AS-MUSIC 2(1,0)

Bassoon V: PR: C.I. May be repeated for credit.

MVW 5455 AS-MUSIC 2(1,0)

Saxophone V: PR: C.I. May be repeated for credit.
Clinical Teaching Strategies for Health Professional Education: PR: EDG 6236 or Teaching Strategies for Health Professionals, or C.I. In depth study of the development, implementation, and evaluation of clinical education programs for health profession students. May be repeated for credit.

NGR 5715 HPA-NURS 3(3,0) Instructional Technology Resources for Health Professional Education: PR: EDG 6236, Teaching Strategies for Health Professionals, or C.I. Analysis of effective teaching learning strategies with emphasis on developing techniques for teaching through technology resources.

NGR 5720 HPA-NURS 3(3,0) Organizational Dynamics: PR: Baccalaureate Degree in Nursing. Analysis of theories and models of health care organizational systems. Emphasis on nursing administration roles.

NGR 5744 HPA-NURS 1(1,0) Health Care Systems, Policy and Health Professionals: PR: Completion 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.

NGR 5745 HPA-NURS 1(1,0) Professional Obligations and Activities of Advanced Practice Nursing: PR: NUR 5746 (Roles and Issues in Advanced Practice Nursing II). Examine professional obligations of advanced practice nursing. Opportunity to develop skills for taking certification exam.

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.

NGR 5791 HPA-NURS 3(3,0) Teaching Strategies for Health Professionals: PR: Bachelors in nursing or consent of instructor. Analysis of internal and external controls on curriculum development for health professionals; application of select- ed teaching learning theories to classroom and clinical practice.

NGR 5800 HPA-NURS 4(4,0) Nursing Theory/Research I: PR: Baccalaureate degree in Nursing or NUR 4836, undergraduate statistics course or C.I. Explores and analyzes the conceptual and theoretical bases of nursing, examines and critiques research designs and methods commonly used in nursing research.

NGR 5801 HPA-NURS 4(4,0) Nursing Research II (Statistics): PR: BSN; NUR 5800; Undergraduate Statistics or C.I. Measurement strategies in nursing research, data planning and collection techniques, statistical data analysis and interpretation of results, research proposal development, outcomes research and statistical software.

NGR 5870 HPA-NURS 3(3,0) 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.

NGR 5880 HPA-NURS 3(3,0) Professional Ethics: PR: C.I. Clinical cases and other professional ethical issues related to codes of conduct and research, application of ethical principles. May be repeated for credit.

NGR 5930 HPA-NURS 3(3,0) 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.

NGR 5931 HPA-NURS 3(3,0) 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.

NUR 1015 HPA-NURS 3(3,0) 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.

NUR 3026L HPA-NURS 1(0,2) Therapeutic Interventions for Health Professionals: PR: Admission to the School of Nursing Program. Theoretical rationale and psychomotor development for therapeutic interventions in nursing practice. Graded S/U.


NUR 3165 HPA-NURS 3(3,0) Critical Inquiry: PR: STA 204C or STA 2023; NUR 3809 and RN status or NUR 3065. A study of approaches to problematic situations in nursing. Selected experiences in investigating, analyzing, and interpreting nursing research.

NUR 3167 HPA-NURS 1(2,0) Accelerated Nursing Research Seminar: PR: Admission to Accelerated BSN Option; previous undergraduate or graduate research course with approval from the SON. NUR 3235; NUR 3235L; NUR 3188. Accelerated study of systematic approaches to problematic situations in nursing. Selected experiences in investigating, analyzing, and interpreting nursing research and nursing issues.

NUR 3198 HPA-NURS 5(5,0) Pathophysiology and Pharmacology for Nursing Practice: PR: Admission to the School of Nursing. Concepts and nursing care applications of the pathophysiologic basis of illness, and principles of pharmacology.

NUR 3235 HPA-NURS 5(5,0) Promoting Physical and Mental Health in the Community: PR: Completion of all Jr. level first semester courses or C.I. Biopsychosocial nursing interventions in physical and mental health problems with emphasis on family-centered care in the community.

NUR 3235L HPA-NURS 4(0,4) Clinical Practice in Promoting Physical and Mental Health in the Community: PR: Completion of all Jr. level first semester courses or C.I. Clinical application of biopsychosocial nursing interventions in physical & mental health problems with emphasis on family-centered care in the community. Graded S/U.

NUR 3616 HPA-NURS 3(3,0) Promoting Healthy Families Across the Lifespan: PR: Baccalaureate in health related field or C.I. Examination of the role and contributions of the healthcare system in implementing strategies encountered by speech-language pathologists and nurses practitioners when promoting interdisciplinary and collaborative interactions.

NUR 3616L HPA-NURS 3(0,3) Clinical Practice in Promoting Healthy Families: PR: Admission to the School of Nursing. Primary care clinical nursing practice in community settings with healthy families across the lifespan, including common health concerns related to childbearing, childrearing, adulthood, and aging.

NUR 3637 HPA-NURS 5(5,0) Accelerated Promoting Healthy Families and Communities: PR: Admission to Accelerated Second Degree BSN Option; NUR 3065, NUR 3026L, NUR 3825, NUR 3637L. Application of concepts of family and community nursing across the lifespan including childbearing, childrearing, adulthood, and aging.

NUR 3637L HPA-NURS 2(0,2) Accelerated Clinical Practice in Promoting Healthy Families and Communities: PR: Admission to Accelerated Second Degree BSN option, Conreq. NUR 3637, NUR 3026L, NUR 3065, NUR 3825. Primary care nursing practice with healthy communities and families across the lifespan, including common health promotion activities related to childbearing, childrearing, adulthood, and aging. Graded S/U.

NUR 3795 HPA-NURS 3(3,0) 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.

NUR 3809 HPA-NURS 3(3,0) 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.

NUR 3825 HPA-NURS 1(1,0) The Role of the Professional Nurse: PR: Admission to the school of Nursing. Examination of the role and function of the professional nurse, including professional standards, legal and practice issues.
NUR 3826H HPA-NURS 3(3,0)
Biotechnical and Legal Issues in Health Care -
Honors: PR: Honors Program. Includes questions concerning human values, legal and ethical questions arising in health care delivery policy issues and professional practice among licensed health care professionals

NUR 3936 HPA-NURS 3(2,2)
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 system in the United States and selected countries. May be repeated for credit

NUR 4047 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.

NUR 4084 HPA-NURS 3(3,0)
Transitional Concepts in Nursing II: PR: NUR 3809, NUR 3065, NUR 3165. Enhancement of knowledge from basic Registered Nurse programs and continuation of study from NUR 3809.

NUR 4196 HPA-NURS 3(3,0)

NUR 4286 HPA-NURS 3(3,0)
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.

NUR 4525 HPA-NURS 2(2,0)
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.

NUR 4525L HPA-NURS 1(0,1)
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.

NUR 4635C HPA-NURS 6(3,3)
Scientific Theories of Nursing VI: PR: NUR 4634 and admission to the Nursing Program. Theories and principles of public health nursing. Clinical applications in selected settings.

NUR 4636 HPA-NURS 3(3,0)
Community as the Continuum of Care: PR: Completion of all Jr. level and Sr. level 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.

NUR 4636L HPA-NURS 2(0,2)
Clinical for 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 S/U.

NUR 4695 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 4635L. 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.

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.

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 S/U.

NUR 4827 HPA-NURS 3(3,0)
Leadership and Management Principles: PR: NUR 3809 or NUR 4635, 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.

NUR 4828 HPA-NURS 2(0,2)

NUR 4829 HPA-NURS 3(3,0)
Accelerated Transitioning into Professional Practice as a Leader: PR: NUR 4745, NUR 4745L, NUR 4525, NUR 4525L, CR: NUR 4945L, NUR 4695, NUR 4636L. Application of leadership and management principles to the beginning role of the professional nurse.

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.

NUR 4836 HPA-NURS 3(1,2)

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.

NUR 4838L HPA-NURS 2(0,2)

NUR 4880 HPA-NURS 3(3,0)
Introduction to Critical Care Nursing: PR: RN status or C.I. Theories and principles of comprehensive nursing care of individuals and families in critical care settings.

NUR 4903H HPA-NURS 3(3,0)
Directed Reading/Research-Honors: PR: Admission to major. The student will review and synthesize literature on a selected topic in preparation for the Honors Thesis or Project.

NUR 4905C HPA-NURS 3(3,0)
Nursing Independent Study: PR: NUR 4736C. An opportunity for in-depth study in an area of special interest to the student.

NUR 4906 HPA-NURS 3(3,0)
Nursing Independent Study: Directed Study.

NUR 4930 HPA-NURS 3(3,0)
Health Issues in Minority and Special Populations: PR: Nursing Majors/Junior Level, or C.I. Identify and critically analyze structural and socio-cultural factors that influence the health of minorities and special populations.

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.

NUR 4935 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.

NUR 4941 HPA-NURS 3(0,9)

NUR 4970H HPA-NURS 3(3,0)
Thesis or Project Works-Honors: This course provides students with faculty mentoring through the process of writing and defending the Honors Thesis or Project.

OCE 3008 AS-BIOL 3(3,0)

OSE 5041 ECS-EECS 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.

OSE 5050 UCFOPT 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.

OSE 5051L ECS-EECS 3(1,4)
Electro-Optics Laboratory: PR: EEL 4440 or OSE 5041 or C.I. Study of laboratory techniques for optical measurements and performance of measurements on electro-optic devices to determine operational characteristics.

OSE 5111 UCF-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.

OSE 5115 AS-PHYS 3(3,0)
Interference and Diffraction: PR: Graduate standing of C.I. Interference of light, optical heterodyne, Fraunhofer and Fresnel scalar diffraction, diffraction gratings, temporal coherence, spatial coherence, and partial coherence.

OSE 5143 ECS-EECS 3(3,0)

OSE 5203 UCF-OPT 3(3,0)

OSE 5312 UCF-OPT 3(3,0)
Fundamentals of Optical Science: PR: Graduate standing or C.I. Microscopic theory of absorption, dispersion, and refraction of materials; wave propaga-
tion, introduction to lasers and nonlinear optics.

OSE 5414 ECS-EESCS 3(3,0)
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.

OSE 5421 UCF-OPT 3(3,0)
Integrated Optics: PR: Graduate standing or C.I. The propagation and loss characteristics in dielectric optical waveguides, fundamental concepts of both integrated and fiber optic devices, numerical modeling of complex integrated optical components.

OSE 5511 AS-PHYS 3(3,0)
Laser Principles: PR: PHY 3101, MAP 2322, PHY 4424. Classical introduction to the basic principles of laser gain media, properties of resonators and modes, description of specific laser systems.

OSE 5630C ECS-EESCS 3(2,1)
Thin Film Optics: PR: PHY 4424 or EEL 4440 and OSE 5041 or OSE 5051C. Principles of thin film optics and its applications in optical, electro-optical, and laser systems.

PAD 3000 HPA-PUB 3(3,0)
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.

PAD 3003 HPA-PUB 3(3,0)

PAD 3040 HPA-PUB 3(3,0)
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.

PAD 4034 HPA-PUB 3(3,0)
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.

PAD 4104 HPA-PUB 3(3,0)
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.

PAD 4110 HPA-PUB 3(3,0)
Intergovernmental Administration: Various approaches to studying and explaining the American Intergovernmental system. Emphasis on interorganizational activities, negotiation, cooperation, and coordination within the legal setting.

PAD 4131 HPA-PUB 3(3,0)
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.

PAD 4144 HPA-PUB 3(3,0)
Non-Profit Organizations: PR: PAD 3003 or C.I. The operations of non profit organizations, including working with board of directors, volunteer services, fundraising and grantsmanship, financial management and marketing.

PAD 4147 HPA-PUB 3(3,0)
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.

PAD 4148 HPA-PUB 3(3,0)
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.

PAD 4153 HPA-PUB 3(3,0)
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.

PAD 4204 HPA-PUB 3(3,0)
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.

PAD 4223 HPA-PUB 3(3,0)
Public Budgeting: Skills and Techniques: PR: PAD 4204 or C.I. Analytical skills and administrative techniques employed by public budget analysis, focusing on the process of generating and using information.

PAD 4253 HPA-PUB 3(3,0)
Community & Economic Development: PR: PAD 3003 or C.I. This course will examine local and regional economic development strategies, with an emphasis on effective policy setting and planning.

PAD 4325 HPA-PUB 3(3,0)
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.

PAD 4331 HPA-PUB 3(3,0)
Land Use and Planning: PR: PAD 3003 or C.I. The study of land use and planning to include zoning variiances, non-conformities, development agreements, subdivision controls, redevelopment and sprawl.

PAD 4334 HPA-PUB 3(3,0)
Urban Design: PR: PAD 3003 or C.I. Theories and concepts of the physical, cultural, social and financial factors associated with urban design.

PAD 4351 HPA-PUB 3(3,0)
Issues in Environmental Program Management: The study of environmental policy making processes, programs, and problems through lectures, field study, and research projects.

PAD 4392 HPA-PUB 3(3,0)
Managing Public Emergencies: PR: PAD 3003 or C.I. After a public emergency, a variety of services and coordination and management of these services is discussed.

PAD 4393 HPA-PUB 3(3,0)
Emergency Management & Disaster Planning: PR: PAD 3003 or C.I. Emergency Management and Disaster Planning on events most likely to affect Florida including reviewing the four phases of Planning, mitigation, response, and preparedness.

PAD 4414 HPA-PUB 3(3,0)
Public Personnel Administration: The history, operating components, structural characteristics, and increasing impact of laws and related sanctions on personnel practices of public agencies.

PAD 4446 HPA-PUB 3(3,0)
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.

PAD 4461 HPA-PUB 3(3,0)
Reengineering Government: PR: PAD 3003. Acquaint undergraduate students with the latest thinking on improving the effectiveness and efficiency of public organizations via reengineering.

PAD 4616 HPA-PUB 3(3,0)
Privatization: PR: PAD 3003 or C.I. Analysis of the process of privatizing existing governmental services, including privatization decision, creation of RFP or RIT, contract award and contract management.

PAD 4712 HPA-PUB 3(3,0)
Information Systems for Public Managers and Planners: PR: PAD 3000 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.

PAD 4720 HPA-PUB 3(3,0)
Survey Research in Public Administration: Introduction to the concepts, design, methodology, computer applications, and data analysis in applied research in the public sector.

PAD 4803 HPA-PUB 3(3,0)
Issues in Urban Administration: To provide students with an understanding of public policy and administrative responses to socioeconomic problems within the urban context.

PAD 4941 HPA-PUB 3(6,0)
Public Administration Internship: PR: 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.

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.

PAD 5142 HPA-PUB 3(3,0)
Nonprofit Organizations: PR: Admission to certificate program or C.I. Overview of nonprofit management, including history, governance structures, criteria used to establish nonprofit status, range of organizations, and application of management theory.

PAD 5145 HPA-PUB 3(3,0)
Volunteerism in Nonprofit Management: PR: Admission to certificate program or C.I. Human resource development in nonprofit organizations, including board selection, development and leadership, volunteer recruitment, training, retention and theories of motivation, leadership, ethical issues and the role of technology.

PAD 5146 HPA-PUB 3(3,0)

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.

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.

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, and zoning, growth management and environmental regulations.

PAD 5356 HPA-PUB 3(3,0)
Managing Community and Economic Development: PR: graduate standing or C.I. Overview of economic development activities focusing on policy and managerial issues at the local level.
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.

PAD 5427 HPA-PUB 3(3,0) Labor Relations in the Public Sector: Current trends and developments in employment relations in the public sector, especially employee organization, negotiations, and the collective bargaining process.

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.

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.

PAD 5850 HPA-PUB 3(3,0) Grant and Contract Management: PR: PAD 3003 or C.I. Study of government or public nonprofit agency grant and contract administration and management responding to funding assistance solicitations and grant and contract preparation, evaluation, and presentation.

PAF 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. Graded S/U.

PAF 4948 HPA-PUB 3(0,3) American Humanities Internship: PR: Enrollment in American Humanities Certification Program, completion of 2 A-H restricted course electives and approval of AH Campus Director. Supervised internship to demonstrate AH identified competencies for students in American Humanities certification program. Requires minimum of 300 hours placement in nonprofit human services organization.

PCB 2420 HPA-M&M 3(3,0) Principles of Biotechnology: Principles, applications, laws, ethics and impact on society of biotechnology in agriculture, medicine, forestry, environment, computers/industrial/chemical engineering and business management.


PCB 3034L AS-BIOL 1(0,3) Principles of Ecology Laboratory: CR: PCB 3034 or C.I. Field and laboratory investigations of natural ecosystems, with emphasis on current methodology in ecology.

PCB 3063 AS-BIOL 3(3,0) Genetics: PR: BSC 2010C, and CHM 2046, or C.I. Basic principles of heredity as applied to prokaryotes and eukaryotes.

PCB 3063L AS-BIOL 1(0,3) Genetics Laboratory: CR: PCB 3063 or C.I. Introduction to laboratory techniques of genetics.

PCB 3233 HPA-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.

PCB 3233L HPA-M&M 1(0,3) Immunology Laboratory: CR: PCB 3233. Introduction to laboratory techniques in immunology.


PCB 3442 AS-BIOL 3(3,0) Florida Aquatic Ecology: PR: BSC 2010C and BSC 2011C, or C.I. An introduction to aquatic ecology of Florida with emphasis on ponds, lakes, streams, and rivers.

PCB 3523 HPA-M&M 3(3,0) Molecular Biology I: PR: CHM 2211 and MCB 3020C or C.I. The general principles governing the structure and function of both procaryotic and eucaryotic genes.

PCB 3703C HPA-M&M 3(3,4) Human Physiology: PR: BSC 2010C, CHM 2046 or equivalent. The physiology and interrelationships of organ systems of the human body.

PCB 4234 HPA-M&M 3(3,0) Cellular Immunology: PR: PCB 3233. An undergraduate course covering specialized topics in cellular immunology.


PCB 4524 HPA-M&M 3(3,0) Molecular Biology II: PR: PCB 3523. The processes regulating gene function in procaryotes and eucaryotes; specialized genetic aspects underlying multicellular existence, DNA evolution.

PCB 4524H HPA-M&M 3(3,0) Molecular Biology II-Honors: PR: PCB 3523. Same as PCB 4524 with honors level content.

PCB 4525 HPA-M&M 3(3,0) Experimental Molecular Biology: PR: PCB 3523 and PCB 4524 or C.I. Facilitation of experimental data that leads to the development and understanding of the underlying principles of molecular biology.

PCB 4683 AS-BIOL 4(4,0) Population Biology and Evolution: PR: PCB 3034 and PCB 3063 or equivalents. Demographic and genetic structure of populations and their relationship to speciation, adaptation, and macroevolutionary processes in plants and animals.

PCB 4683L AS-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.

PCB 4723 AS-BIOL 4(4,0) Animal Physiology: PR: PCB 3023 or C.I. Functions of body processes occurring in animals, with emphasis on vertebrate physiology.

PCB 4805 HPA-M&M 3(3,0) Endocrinology: PR: PCB 3703C or equivalent; CHM 3211. Mechanisms of action of hormones; interrelations between the nervous and endocrine systems.


PCB 5107C AS-BIOL 4(3,2) Advanced Cell Biology: PR: PCB 3063 and PCB 3023 or CI. Review of selected topics in cell biology with emphasis on current research in areas of membrane structure, protein targeting, cytoskeleton, signalling and cell cycle.

PCB 5236 HPA-M&M 3(3,0) Immunopathology: PR: PCB 3233. In-depth overview of diseases due to deficiencies or over-reactivity of the immune system.

PCB 5239 HPA-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.


PCB 5275 HPA-M&M 3(3,0) Signal Transduction Mechanics: PR: PCB 3023 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.

PCB 5326C AS-BIOL 5(3,2) Ecosystems of Florida: PR: PCB 3034, PCB 3034L or equivalent. Ecosystems of Florida will be discussed to include geography, geology, climate, energetics, nutrient cycling, community structure and conservation.

PCB 5328C AS-BIOL 4(2,4) Landscape Ecology: PR: PCB 3034, STA 2023 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.

PCB 5435C AS-BIOL 4(2,6) Marine Ecology of Florida: PR: BSC 4312C or graduate status. Survey of experimental methods used in the study of marine communities in central and southern Florida, combining field manipulation and readings from primary literature.

PCB 5485 AS-BIOL 3(3,0) Models in Ecology: PR: PCB 3034, MAC 2311L (or equivalent). A survey of how simulation models are applied to ecological questions of both a theoretical and managerial nature.

PCB 5520 AS-BIOL 3(3,0) Behavioral Ecology: PR: CI. Introduction to the field of Behavioral Ecology, which studies evolution of animal behavior in the wild.


PCB 5665C AS-BIOL 4(3,2) Human Genetics: PR: PCB 3063, graduate standing or C.I. Human Genetics provides a theoretical framework for understanding the biology of the human species.

PCB 5677 AS-BIOL 3(3,0) Molecular Evolution: PR: PCB 3063 and PCB
UCF Courses and Descriptions

4683C. Provides an overview of molecular methods currently used to analyze diversity within and among species.

PCO 4203 AS-PSYCH 4(3,2) Interviewing and Counseling: PR: PSY 2012, PPE 3003, CLP 3143 and C.I. A review of various interviewing and counseling theories and techniques used in Mental Health settings as well as practical experience in interviewing and counseling procedures.

PEL 2011 ED-TLP 2(2,1) Basic Volleyball and Softball: The analysis of offensive and defensive alignment, techniques, and strategies.

PEL 2111 ED-TLP 2(1,1) Bowling: A study of the fundamentals of bowling techniques and the development of skills based on those fundamentals.

PEL 2112 ED-HSW 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.

PEL 2341 ED-TLP 2(2,1) Beginning Tennis: Performance and application of basic skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport.

PEL 2342 ED-TLP 2(2,1) Advanced Tennis: PR: PEL 2341 or equivalent competency. A study of performance and application of advanced skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport.

PEL 2640 ED-TLP 2(2,1) Basic Football and Basketball: The analysis of offensive and defensive alignment, techniques, and strategies.

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.

PEM 2104 ED-TLP 2(2,1) Personal Fitness: Study of personal fitness concepts, with opportunities to develop individual optimal level of fitness and an improved lifestyle through high-level wellness.

PEM 2131 ED-TLP 2(2,1) Strength Resistance Training: Study of fitness and strength development through resistance exercise.

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.

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.

PEM 2175 ED-TLP 2(1,2) 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.

PEM 2405 ED-TLP 3(1,2) Self Defense for Women and Men: Designed to provide students with self defense skills.

PEM 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.

PEM 5403 ED-TLP 3(3,0) Controlling Classroom Violence: PR: Post basic, baccalaureate or graduate status; certified teacher; or C.I. A hands-on course dealing with controlling disruption and violence as well as how teachers can protect themselves.

PEN 1121 ED-TLP 2(2,1) Elementary Swimming: For non-swimmers and beginning swimmers. Development and study of technique in the basic skills of water safety and swimming.

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.

PEO 2031 ED-TLP 3(2,1) Individual Sports and Leisure Activities: This course is designed to develop skill proficiency and knowledge to plan, implement and evaluate individual sports and leisure activities in physical education program.

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.

PEO 3041 ED-TLP 2(1,1) Games for the Elementary School Physical Education Program: The understanding, designing, and teaching of low-organizational game-activities for the elementary school child.

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.

PEO 3644 ED-TLP 3(2,1) Coaching Football: Theory and methods of coaching football, including the analysis of offensive and defensive techniques and strategies.

PEE 5645 ED-TLP 3(3,0) Coaching Baseball: PR: C.I. Advanced principles and methods common to the coaching of baseball. Includes teaching and training methods, organization, motivation and strategies.

PEP 3205 ED-TLP 3(2,1) Gymnastics: This course is designed to develop skill proficiency and instructional strategies in gymnastics.

PET 2622C ED-TLP 3(2,1) Human Injuries: PR: Biomechanics or C.I. The prevention, identification, care, and rehabilitation of human injuries.

PET 3137 ED-TLP 3(3,0) Concepts & Practices in Sports and Fitness: PR: Admission to the program or C.I. Examination of concepts and practices in sports and fitness.

PET 3214 AS-PSYCH 3(3,0) Sports Psychology: A review of principles of psychology related to the enhancement of satisfaction and performance in sports.

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.

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 department and the interaction with the public and media representatives with specific application to sports and fitness professionals.

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.

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.


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.

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.

PET 3740C ED-TLP 2(1,1) Teaching Physical Education in the Secondary and Middle School (8-12): PR: Admission to Junior Block, or C.I. Curricular and instructional considerations for teaching secondary and middle school physical education.

PET 3765 ED-TLP 3(3,0) Coaching Theory: PR: Admitted to COE or C.I. Theories of coaching team and individual sports.

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.

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 curriculumb, camping, water activities, fishing, orienteering, hiking.

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.

PET 4083C ED-TLP 4(3,1) Practical Fitness training: PR: PET 4312, PET 4351, PET 2622C, PET 4550, PEM 2711. An in-depth study into fitness-related concepts as they are applied to individuals and groups.

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.

330 UNIVERSITY OF CENTRAL FLORIDA 2003-2004 Undergraduate Catalog
UCF Courses and Descriptions

PET 4312 ED-TLP 3(2,1)
Biomechanics: PR: Anatomy. The comprehension and application of anatomical and mechanical principles involved in human movement.

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

PET 4351 ED-CFCS 3(2,1)
Applied Exercise and Human Physiology: An in-depth study of metabolic, neuromuscular, respiratory and cardiovascular physiological concepts and principles with practical application to physical education and sport.

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.

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.

PET 4550 ED-TLP 3(2,1)
Fitness Assessment and Exercise Physiology: A study and acquisition of health related fitness, exercise strategies and related assessment techniques.

PET 4603 HPA-HP 3(3,0)
Introduction to Sports Medicine: A comprehensive study of care of sports injuries, including instruction in attitudes, health and conditioning in sports participants.

PET 4604 HPA-HP 3(3,0)
Sports Medicine Field Application: Demonstration and application of the treatment for various sports injuries.

PET 4606 HPA-HP 3(3,0)
Applied Fitness in Sport: PR: PET 3671. Appreciation and clinical application of fitness regarding athletics

PET 4624C HPA-HP 3(2,2)
Art and Science of Athletic Training II: PR: PET 3623C. Specific diagnostic and sport specific injuries in athletics.

PET 4625 ED-TLP 3(3,0)

PET 4630C HPA-HP 4(2,4)
Therapeutic Exercise in Athletic Training: PR: PET 3623C. Rehabilitation processes regarding exercise progression for athletic injury.

PET 4632C HPA-HP 4(2,4)
Therapeutic Modalities in Athletic Training: PR: PET 4624C. Principles and techniques for applying therapeutic modalities.

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.

PET 4660C HPA-HP 3(3,0)
Organization and Administration of Athletic Training: PR: PET 3671C. Administrative knowledge in the athletic training profession.

PET 4672C HPA-HP 4(0,8)
Practicum in Athletic Training III: PR: PET 3671C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer.

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.

PET 4674 HPA-HP 1(1,0)

PET 4710 ED-E PE 3(3,0)
Teaching Physical Education K-12: PR: Must be admitted to internship. Development of lesson plans and application to teaching physical education.

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.

PET 4763 ED-HSW 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.

PET 4823 ED-HSW 3(3,0)

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.

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.

PET 4943 ED-TLP 12(0,35)
Internship II: PR: Must have completed course work in specialization. Satisfactory completion of the portfolio. Full time student teaching under a certified elementary or secondary physical education teacher. May be repeated for credit. Graded S/U.

PET 5355 ED-TLP 3(3,0)
Exercise and Health: PR: Admission to Master's Program or Certificate Program. Will provide educators in in-depth understanding of energy pathways, and neuromuscular, cardiovascular, and respiratory systems during exercise. Emphasis on understanding principles of exercise adaptations and applying those principles to fitness/wellness settings.

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.

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.

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.

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 preventing the health of an athlete before, during and after performance.

PET 5766 ED-TLP 3(3,0)

PGY 2401C AS-ART 3(3,2)
Beginning Photography: PR: ART 2201C, ART 2303C or C.I. Introduction to photography with an art emphasis.

PGY 3410C AS-ART 3(3,2)

PGY 3610C AS-COMM 3(1,4)
Photojournalism I: PR: Junior standing or C.I. Visual communication, history, picture appreciation, layout and design, picture story development, basic camera operation, and ethics. 35 mm SLR camera required.

PGY 3640C AS-COMM 3(1,2)

PGY 3680 AS-COMM 3(3,0)

PGY 4420C AS-ART 3(2,3)
Advanced Photography: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2410C, and a satisfactory portfolio review or C.I. Advanced photography skills and portfolio development. Designed for art majors. May be repeated for credit.

PGY 4440C AS-ART 3(2,3)

PHH 3041 AS-PHIL 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.

PHH 3100 AS-PHIL 3(3,0)
Ancient Philosophy: PR: PHI 2010 or C.I. Focuses on Western philosophy in ancient Greek thinking about human beings and nature, including the pre-Socratics, Socrates, Plato, Aristotle.

PHH 3200 AS-PHIL 3(3,0)
Medieval Philosophy: PR: PHI 2010 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.

PHH 3460 AS-PHIL 3(3,0)
Modern Western Philosophy: PR: PHI 2010 or C.I. The philosophy of Marx and Nietzsche, important differ-
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>PHH 2000 AS-PHIL 3(3,0)</td>
<td>Contemporary Philosophy: PR: PHI 2010 or C.I. Recent and current trends in philosophy, including philosophical analysis, phenomenology, structuralism, post-structuralism, and liberation philosophies.</td>
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<tr>
<td>PHH 2600 AS-PHIL 3(3,0)</td>
<td>American Philosophy: PR: PHI 2010 or AMH 2010 or ARH 2000 or C.I. An ontological and chronological survey of philosophical, religious, and scientific developments in American thought, with primary focus on the American spirit of individualism and reform.</td>
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<tr>
<td>PHI 2100 AS-PHIL 3(3,0)</td>
<td>Introduction to Philosophy: Inquiry into the meaning and justification of fundamental ideas and beliefs concerning reality, knowledge, and values, application to relevant topics in ethics, religion, and politics.</td>
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<tr>
<td>PHI 2010 AS-PHIL 3(3,0)</td>
<td>Honors Introduction to Philosophy: Same as PHI 2010 with honors-level content.</td>
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<tr>
<td>PHI 2011 AS-PHIL 3(3,0)</td>
<td>Philosophical Reasoning: A study of reasoning in philosophy: the role of inconsistency, infinite regress arguments, modeling, and system building, discovery procedures, diagonalization, and contract and paradox case arguments.</td>
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<tr>
<td>PHI 2100 AS-PHIL 3(3,0)</td>
<td>Formal Logic I: A study of sentence and predicate logics, with introduction to modal, epistemic, deontic, multi-valued, and indeterminant logics.</td>
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<tr>
<td>PHI 2101 AS-PHIL 3(3,0)</td>
<td>Critical Thinking: The logic of conversation, informal fallacies, and reasoning about human action.</td>
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<td>PHI 2630 AS-PHIL 3(3,0)</td>
<td>Ethics: An examination of the nature of moral problems, judgements and principles, with an emphasis on recent formulations in ethical theory.</td>
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<td>PHI 2647 AS-PHIL 3(3,0)</td>
<td>Logic and Ethics: PR: PHI 2100 or COT 3100 or MTH 2104. Research in logic applied to ethics, especially for science and technology. Uses of simulation and modeling to study philosophical problems in ethics.</td>
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<tr>
<td>PHI 3022 AS-PHIL 3(3,0)</td>
<td>Sexuality, Gender &amp; Philosophy: PR: WST 3015, PHI 2100, PHI 3123, or C.I. Examines the contributions of poststructualist and neopsychoanalytical theories to cultural issues in sexuality and gender.</td>
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<tr>
<td>PHI 3033 AS-PHIL 3(3,0)</td>
<td>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.</td>
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<tr>
<td>PHI 3100 AS-PHIL 3(3,0)</td>
<td>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 personhood, and the relation of psychology to neurobiology.</td>
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<tr>
<td>PHI 3451 AS-PHIL 3(3,0)</td>
<td>Psychology of Philosophy: PR: Junior standing or C.I. Philosophical assumptions and foundations of major psychological movements plus other philosophically interesting issues.</td>
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</table>
| PHI 3601 AS-PHIL 1(1,0) | Practical Wisdom: 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. PHI 3625 AS-PHIL 3(3,0) Virtual Ethics: PR: COP 3502C or IDS 2680 or C.I. Ethics of virtual worlds as contrasted to the physical world, the use of simulation, virtual environments, and modeling in philosophy, especially in ethics. PHI 3626 AS-PHIL 3(3,0) Advanced Ethics in Science and Technology: PR: COP 3502C or IDS 2680 or PHI 2647. Critical thinking applied to ethics in science and technology. PHI 3638 AS-PHIL 3(3,0) Ethical Issues in the 21st Century: PR: PHI 2010 or C.I. Applications of ethical theory and moral problem-solving to contemporary issues. PHI 3640 AS-PHIL 3(3,0) Environmental Ethics: PR: Junior standing. Major contemporary views in environmental ethics, including individual and holistic approaches, deep ecology, ecofeminism, and social ecology PHI 3648 AS-PHIL 3(3,0) Ethical Implications of the Human Genome Project: PR: BSC 100C and either PHI 3010 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. PHI 3670 AS-PHIL 3(3,0) Ethical Theory: 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. PHI 3683 AS-PHIL 3(3,0) Philosophy of Friendship: 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. PHI 3700 AS-PHIL 3(3,0) Philosophy of Religion: PR: REL 2300 or PHI 2010. An examination of basic ideas, beliefs, attitudes, and functions of religion, with emphasis upon questions of conceptual meaning and cognitive justification. PHI 3720 AS-PHIL 3(3,0) Faith and Reason: PR: REL 2300 or PHI 2010 and C.I. Emergence of two discrete ways of knowing: Faith and Reason. PHI 3750 AS-PHIL 3(3,0) The Problem of Evil: PR: PHI 2010 or C.I. The traditional problem of evil encompassing philosophical, theological, logical, and natural interpretations and assessments of moral evil. PHI 3800 AS-PHIL 3(3,0) Aesthetics: PR: PHI 2010, HUM 2230, ARH 2050, or ARH 2051. An investigation into the nature of human artistic experience, with special reference to questions of form, perception, and style. PHI 3803 AS-PHIL 3(3,0) Philosophy and Creativity: A companion course to PHI 3800, Aesthetics. Examines the empirical and metaphysical claims made for creativity; attempts to account for intuition, genius, and intelligence. PHI 3841 AS-PHIL 3(1,3) Philosophy Practicum: PR: C.I. Mentor-at-risk grade schoolers three hours weekly and participate in a two-hour class every other week, evaluating such work-related concepts as justice and fairness. Pass/Fail grading. PHI 4300 AS-PHIL 3(3,0) Theories of Knowledge: PR: Philosophy major or C.I. Classical and contemporary theories of knowledge. A critical examination of various forms of, and reasons for, skepticism, criteria for truth and justification for belief. PHI 4321 AS-PHIL 3(3,0) Philosophies of Embodiment: Mind/Body/Self: PR: Junior standing and either PHI 2010, PHI 2111, PHI 2101, or C.I. Different ways of understanding relations between mind, body, and nature. Self-knowledge as articulated by western and non-western philosophers from ancient to contemporary times. PHI 4341 AS-PHIL 3(3,0) Ways of Knowing: PR: PHI 2010 or C.I. Philosophic study of approaches to knowledge, with emphasis on contributions of the knower to how things are known. PHI 4400 AS-PHIL 3(3,0) Philosophy of Science: An examination of the conceptual foundations and methodology of modern science. PHI 4420 AS-PHIL 3(3,0) Philosophy of Social Science: An examination of the objectives, methods and guiding norms of the social sciences and their role in the development of human knowledge. PHI 4500 AS-PHIL 3(3,0) Metaphysics: 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. PHI 4633 AS-PHIL 3(3,0) Ethics and Biological Science: 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. PHI 4804 AS-PHIL 3(3,0) Critical Theory: PR: C.I. Critical theory and cultural studies emphasize the current trends as they apply to arts in diverse media. PHI 4931 AS-PHIL 3(3,0) Philosophy in the News: PR: PHI 2010. Changing course content. A specific topic being covered by the media will be selected for philosophical examination. Course is web enhanced. PHI 4951 AS-PHIL 1(1,0) Portfolio: PR: PHI 3XX (Research Methods in Philosophy) and last semester as Philosophy major. Presentation of a representative sampling of student's best work, with appropriate revisions, including a cover narrative indicating development of philosophical knowledge and skills. Graded S/U. PHI 5627 AS-PHIL 3(3,0) Theoretical and Applied Ethics: PR: Senior undergraduate student and at least one of the following: PHI 3670, PHI 3638, or Graduate standing or C.I. A seminar in theoretical and applied ethics with emphasis on application in professional fields. Variable content. PHI 5665 AS-PHIL 3(3,0) Knowledge, Responsibility, and Society: PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, PHI 4300, PHI 4341, PHI 4400, PHI 4633, PHI 4931 or Graduate standing: A seminar exploring the relationship between ethics and epistemology with application to social concerns. Variable content. PHM 3100 AS-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. PHM 3123 AS-PHIL 3(3,0) Feminist Theories: PR: ENC 1102. Contemporary issues and perspectives in feminist theory and their relation to divergent feminist practices.
PHM 3400 AS-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.

PHM 4031 AS-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.

PHM 5035 AS-PHIL 3(3,0) Environmental Philosophy: PR: PHI 3640, PHI 2630 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.

PHP 3783 AS-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.

PHP 3786 AS-PHIL 3(3,0) Existentialism: Study of existentialist analysis and criticism of the human situation as found in the writings of philosophers such as Kierkegaard, Nietzsche, Heidegger, Sartre, and Camus.

PHT 3002 HPA-HP 2(2,0) Foundations of Physical Therapy I: PR: PHT 3259; PHT 3259L. An introduction to the profession of physical therapy. Patient-practitioner interaction and documentation skills addressed. Appreciation of the total health care team approach to modern medicine; utilization of professional ethics and values are presented.

PHT 3011 HPA-HP 3(3,0) Physical Therapy as a Career: PR: ENC 1102. The science and art of physical therapy, with emphasis on the role and function of physical therapists.

PHT 3069 HPA-HP 1(1,0) Physical Assessment: CR: PHT 3069L. Extensive theory and practice in the examination of the patient. Incorporates a systems approach, utilizing screening and patient problem solving.

PHT 3069H HPA-HP 2(0.4) Physical Assessment: PR: PHT 3069. Lab course emphasizing the examinations required to perform an evaluation of a physical therapy patient.

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.

PHT 3112L HPA-HP 3(0,6) Gross Anatomy/Neuroscience I Lab: CR: PHT 3112C. Human cadaver dissection of the back, spinal cord, cranial nerves, and upper and lower extremities.

PHT 3113 HPA-HP 2(2,0) Gross Anatomy/Neuroscience II: PR: PHT 3112. PHT 3112L. CR: PHT 3113L. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs.

PHT 3113L HPA-HP 3(0,6) Gross Anatomy/Neuroscience II Lab: CR: PHT 3113L. Directed laboratory experiences with cadaver dissection: use of the skeleton, models, and computer programs to facilitate learning.

PHT 3122 HPA-HP 3(3,0) Clinical Kinesiology: CR: PHT 3120L. 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.

PHT 3122L HPA-HP 3(3,0) Clinical Kinesiology Lab: CR: PHT 3122C. Lab course investigating the mechanical aspects of human movement.

PHT 3155 HPA-HP 2(2,0) Physiology of Therapeutic Exercise: PR: PHT 3259C; CR: PHT 3155L. Exercise physiology investigating the physiological responses and adaptations to human movement including cardiovascular and pulmonary systems.

PHT 3155L HPA-HP 2(0,4) Physiology of Therapeutic Exercise Lab: CR: PHT 3155L. Lab course emphasizing the clinical application of exercise physiology.

PHT 3259 HPA-HP 2(2,0) Patient Care Skills: CR: PHT 3259. Affective, cognitive, and psychomotor skills applied to patient care. Diversity issues discussed. Basic skills of patient care; transfers, mobility skills, draping, gait training.

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.

PHT 3602 HPA-HP 2(2,0) Introduction to Clinical Research: PR: STA 2023. Methods of research applied to clinical environment of physical therapy. Coverage of the language, logic, design and analysis of clinical research.


PHT 4215 HPA-HP 3(3,0) Theories and Procedures I: PR: Enrollment in sequence in the Physical Therapy program. CR: PHT 4215L. Theories of physical agents (heat, light, cold, water, sound, and massage): problem solving rationale and selection of interventions for inflammation, pain, edema, spasm, deconditioning.

PHT 4215L HPA-HP 1(0,2) Theories and Procedures I Lab: CR: PHT 4215L. Lab course on the clinical application of heat, light, cold, water, sound, and massage.

PHT 4216 HPA-HP 2(2,0) Theories and Procedures II: PR: PHT 4215. PHT 4215L. Continuation of Theories and Procedures I. Focus on electrodiagnosis and electrophysiologic examinations and the interventions used in the treatment of pain and dysfunction.

PHT 4216L HPA-HP 1(0,2) Theories and Procedures II Lab: CR: PHT 4216. Lab course focusing on electrodiagnosis and electrophysiologic examinations, and the interventions used in the treatment of pain and dysfunction.

PHT 4222 HPA-HP 2(2,0) Therapeutic Exercise I: PR: PHT 3155; PHT 3155L. CR: PHT 4222L. Theory of developing, implementing, and evaluating a therapeutic exercise program for patients with musculoskeletal dysfunction.

PHT 4222L HPA-HP 1(0,2) Therapeutic Exercise I Lab: CR: PHT 4222. Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction.

PHT 4230 HPA-HP 2(2,0) Therapeutic Exercise II: PR: PHT 4222; PHT 4222L. CR: PHT 4230L. Exploration of the various therapeutic exercise modalities, and their application to the rehabilitation course treatment.

PHT 4230L HPA-HP 1(0,2) Therapeutic Exercise II Lab: CR: PHT 4230. Lab course emphasizing use of various therapeutic exercise modalities.

PHT 4234 HPA-HP 2(2,0) Neurological Physical Therapy: PR: PHT 3069; PHT 3069L. CR: PHT 4234L. Analysis of selected neuromotor theories and their clinical applications. Examinations and interventions for the evaluation and treatment of neurological patients presented.

PHT 4234L HPA-HP 2(0,2) Neurological Physical Therapy Lab: CR: PHT 4234L. Lab course emphasizing the clinical application of selected neuromotor theories.

PHT 4307 HPA-HP 3(3,0) Pathology/Pharmacology: PR: PHT 3113L. Organized seminars on the pathophysiology and clinical manifestations of various medical conditions as they relate to medical management in physical therapy practice.

PHT 4308 HPA-HP 2(2,0) Medical Science and Pharmacology II. The impact 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.

PHT 4311C HPA-HP 2(1,2) Clinical Neurology in Physical Therapy: Analysis of selected neuromotor theories and their clinical applications. Advanced evaluation and treatment procedures. The use of research to determine optimum regimens in treating neurological patients.

PHT 4316 HPA-HP 2(2,0) Orthopedic Physical Therapy: PR: PHT 3069; PHT 3069L. CR: PHT 3316L. Examination and interventions for the evaluation and treatment of specific orthopedic cases and injuries are presented. Injury recognition, signs and symptoms or orthopedic involvement, and documentation are highlighted.

PHT 4316L HPA-HP 2(0,4) Orthopedic Physical Therapy Lab: CR: PHT 4316L. Lab course emphasizing the examinations and interventions for the evaluation and treatment of specific orthopedic cases and injuries.

PHT 4320C HPA-HP 2(1,1) Pediatric Physical Therapy: PR: PHT 3259; PHT 3259L. CR: PHT 4320CL. The psychosocial, gross morphological and neurodevelopmental sequences that provide the baseline for pediatric clinical evaluation and treatment of individuals from birth to twenty one years of age and introduction to evaluation and treatment of pediatric clients.


PHT 4707C HPA-HP 2(2,1) Functional Rehabilitation: PR: Full time enrollment in PT program. Functional management of patients.
seen in long term rehabilitation setting. Develop and implement a PT plan of care for patients.

PHT 4821L HPA-HP 2(0,6)
Clinical Education I: PR: Enrollment in Physical Therapy program. Full time supervised clinical education in physical therapy settings. Application of objectives of courses previously completed.

PHT 4822 HPA-HP 2(0,16)
Clinical Education II: Six weeks of supervised clinical education in a general hospital setting. All previous education objectives apply and are accumulative. Graded S/U.

PHT 4823 HPA-HP 1(0,8)
Clinical Education III: Clinical practicum in a long-term care setting. Emphasis on gerontology. Supervised by a licensed physical therapist, the student will integrate and apply all previous course work. Graded S/U.

PHT 4832 HPA-HP 1(0,8)
Clinical Education IV: PR: PHT 4320C, PHT 4372C. Full-time clinical internship under the supervision of a physical therapist, the student practices and integrates evaluation skills and treatment knowledge from previous courses. Graded S/U.

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.

PHT 5005 HPA-HP 2(2,0)

PHT 5115 HPA-HP 2(2,0)
Gross Anatomy/Neuroscience I: PR: Admission to PT program. In-depth study of human morphology emphasizing the back, spinal cord, cranial nerves, and upper and lower extremities. Regional cadaver dissection.

PHT 5115L HPA-HP 2(0,4)
Gross Anatomy/Neuroscience I Lab: PR: Admission to PT program. Human cadaver dissection of the back, spinal cord, cranial nerves, and upper and lower extremities.

PHT 5118 HPA-HP 2(2,0)
Gross Anatomy/Neuroscience II: PR: PR Gross Anatomy/Neuroscience I and Lab; CR Gross Anatomy Neuroscience II Lab. Directed Laboratory experiences with cadaver dissection; use of the skeleton, models, and computer programs to facilitate learning.

PHT 5125 HPA-HP 2(2,0)
Clinical Kinesiology: CR: PHT 5125L. Investigates the mechanical aspects of human movement, joint mechanics of the upper and lower extremity, the vertebral column and tissue mechanics of relevant human tissues.

PHT 5125L HPA-HP 2(0,2)
Clinical Kinesiology Lab: CR: PHT 5125. Concerned with the evaluation and practical application of aspects of human movement, joint mechanics of the upper and lower extremity, vertebral column and soft tissues.

PHT 5156 HPA-HP 2(2,0)
Physiology of Therapeutic Exercise: PR: Admission to PT program. Exercise physiology investigates the physiological responses and adaptations to human movement including cardiovascular and pulmonary.

PHT 5156L HPA-HP 2(0,4)
Physiology of Therapeutic Exercise Lab: CR: PHT 5156. Lab course emphasizing the clinical application of exercise physiology.

PHT 5218 HPA-HP 2(2,0)
Theories and Procedures I: PR: CR Theories and Procedures I Lab. Theories of physical agents, heat, light, cold, water, sound, and massage; problem solving and rationalization and selection of interventions for inflammation, pain, edema, and weakness.

PHT 5218L HPA-HP 1(0,2)
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.

PHT 5240 HPA-HP 1(1,0)

PHT 5240L HPA-HP 2(0,4)
Physical Assessment Lab: PR: CR Physical Assessment Lab course emphasizing the examinations required to perform an evaluation of physical therapy patient.

PHT 5241 HPA-HP 2(2,0)

PHT 5241L HPA-HP 2(0,4)
Therapeutic Exercise Lab: PR: Therapeutic Exercise Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction.

PHT 5260 HPA-HP 2(2,0)
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.

PHT 5260L HPA-HP 1(0,2)
Patient Care Skills Lab: CR: Patient Care Skills. Skills of patient care, transfers, mobility skills.

PHT 5306 HPA-HP 2(2,0)
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.

PHT 5411 HPA-HP 3(3,0)
Foundations of Physical Therapy II: PR: PHT 3002C. This course emphasized the psychosocial aspects of disability. Focus on cultural diversity issues, communication skills, and different styles of learning and teaching.

PHT 5718 HPA-HP 2(2,0)

PHT 5718L HPA-HP 1(0,2)

PHT 5722C HPA-HP 2(2,1)
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.

PHT 5805 HPA-HP 1(0,4)
Clinical Education I: PR: Admission to PT program. Full-time supervised clinical education in physical therapy settings. Application of objectives of courses previously completed.

PHT 4814C AS-PHYS 3(2,2)
Physics for Teachers I: PR: C.I. “Hands-on” lecture/laboratory course. Statics, simple machines, density, solar energy, heat, weather, waves, optical reflections, naked eye astronomy.

PHT 4848 AS-PHYS 3(3,0)
Physics for Engineers & Scientists I: PR: MAC 2311 or equivalent. Mechanics, Thermodynamics, fluids.

PHT 4848H AS-PHYS 3(3,0)
Honors Physics for Engineers and Scientists I: PR: MAC 2311 or equivalent. Same as PHT 4848 with honors-level content.

PHT 4848L AS-PHYS 1(0,3)
Physics Laboratory for Engineers and Scientists I: CR: PHT 4848. Laboratory experiments covering selected topics in physics related to PHT 4848.

PHT 4848LH AS-PHYS 1(0,3)
Honors Physics Laboratory for Engineers and Scientists I: PR: MAC 2311 or equivalent. Same as PHT 4848L with honors-level content.

PHT 2003 HAP-HP 1(0,3)
Physics for Engineers II: CR: PHT 2048H. MAC 2312 and PHT 2048H. Electricity, magnetism, optics.

PHT 2049 HAP-HP 3(3,0)
Honors Physics for Engineers and Scientists II: CR: PHT 2049H. MAC 2312. Same as PHT 2049 with honors-level content.

PHT 2049L HAP-HP 1(0,3)
Physics Laboratory for Engineers and Scientists II: CR: PHT 2049. Laboratory experiments covering selected topics in physics related to PHT 2049.

PHT 2053C HAP-HP 4(3,3)
College Physics I: PR: MAC 1105 and MAC 1114 or equivalent or C.I. Mechanics, waves, thermodynamics.

PHT 2054C HAP-HP 4(3,3)
College Physics II: CR: PHT 2053C. Fluids, electricity and magnetism, optics, x-rays, radioactivity.

PHT 2093 AS-PHYS 0(0,1,5)
Physics Today: CR: PHT 2048 or PHT 2049. Fundamental physics principles behind recent developments in physics research will be presented in a seminar format. May be repeated for credit.

PHT 3101 AS-PHYS 3(3,0)

PHT 3110H AS-PHYS 3(3,0)
Honors Physics for Engineers and Scientists III: CR: PHT 2049 or PHT 2049H. Same as PHT 3110 with honors-level content.

PHT 3221 AS-PHYS 3(3,0)
Mechanics I: PR: PHT 2048 or PHT 2048H, MAP 2302. Particle dynamics, rigid bodies, Lagrange formulation of mechanics, Hamilton's equations.

PHT 3323 AS-PHYS 3(3,0)

PHT 3503 AS-PHYS 3(3,0)
Thermal and Statistical Physics: PR: PHT 3101 or PHT 3110 or C.I. Thermodynamics, kinetic theory.
elements of statistical mechanics.

**PHY 3722C** AS-PHYS 3(1.5)

**Physics Laboratory-Electronics:** PR: PHY 2049, PHY 2049L. State-of-the-art electronics, transducers, operational amplifiers, phase sensitive circuits, active filters.

**PHY 3752C** AS-PHYS 3(1.5)

**Physics of Scientific Instruments:** PR: PHY 3101 or C.I. Applications, functions and operation of electronic instruments.

**PHY 3802L** AS-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.

**PHY 4324** AS-PHYS 3(3.0)

**Electricity and Magnetism II:** PR: PHY 3323. Dielectrics, magnetic materials, electromagnetic waves, reflection, complex impedance, static solutions to Laplace's Equation, radiation from an accelerated charge and antennae, special relativity.

**PHY 4424** AS-PHYS 3(3.0)

**Optics:** PR: PHY 3101 and PHY 3323. Wave optics, absorption, stimulated emission, lasers, transforms, coherence, holography.

**PHY 4424L** AS-PHYS 3(0.3)

**Optical Physics Laboratory:** A laboratory course on geometric optics, interference, diffraction, materials and modern optics.

**PHY 4445** AS-PHYS 3(3.0)

**Lasers:** PR: PHY 3101, MAP 2302, PHY 4424, or C.I. Principles of laser gain media, properties of resonators and modes, and description of specific laser systems.

**PHY 4604** AS-PHYS 3(3.0)


**PHY 4605** AS-PHYS 3(3.0)

**Wave Mechanics II:** PR: PHY 4604. Further applications of quantum mechanics, perturbation theory, scattering theory, identical particles.

**PHY 4803L** AS-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.

**PHY 4942C** AS-PHYS 2(2.3)

**Practicum in Physics:** PR: C.I. Physics laboratories and demonstrations, and the study of recent research on the learning of physics.

**PHY 5015C** AS-PHYS 3(2.2)

**Physics for Teachers II:** PR: C.I. "Hands-on" laboratory course. Dynamics, electricity, magnetism, optics, nuclear radiation.

**PHY 5100** AS-PHYS 1(1.0)

**Topics in Contemporary Physics for Teachers:** PR: C.I. The study of recent findings in a selected area such as particle physics, surface physics, planetary atmospheres, lasers, geophysics, etc. May be repeated for credit.

**PHY 5140C** AS-PHYS 3(3.2)

**Ion-Solid Interactions:** PR: PHY 4604 or PHY 4324. Physical principals and related scientific and technological applications of ion-solid interactions.

**PHY 5200C** AS-PHYS 1(0.5,1.5)

**Newtonian Mechanics for Teachers:** PR: C.I. A lab, lecture, demonstration course studying selected topics in classical mechanics.

**PHY 5300C** AS-PHYS 1(0.5,1.5)

**Electricity for Teachers:** PR: C.I. Circuits, multimeters, oscilloscopes, circuit elements.

**PHY 5302C** AS-PHYS 1(0.5,1.5)

**Electromagnetism for Teachers:** PR: C.I. Gauss' Law, Biot-Savart Law, Ampere's Law, Faraday's Law, Lenz's law, motors, generators, AC circuits and Maxwell's Equations.

**PHY 5346** AS-PHYS 3(3.0)

**Electrodynamics I:** PR: PHY 4324 or C.I. Boundary value problems in electrostatics and magnetostatics. Maxwell's equations. EM fields in matter, wave generation and propagation; wave guides, resonant cavities.

**PHY 5401C** AS-PHYS 1(0.5,1.5)

**Optics for Teachers:** PR: C.I. Geometrical and physical optics, spectrometers and lasers.

**PHY 5455** AS-PHYS 3(3.0)

**Modern X-Ray Science:** An introduction to the science and applications of modern x-ray optics, x-ray lasers, etc., with a review of basic properties of x-rays.

**PHY 5465C** AS-PHYS 1(0.5,1.5)

**Wave Motion for Teachers:** PR: C.I. Water waves, waves on strings, sound and vibrations.

**PHY 5500C** AS-PHYS 1(0.5,1.5)

**Thermal Physics for Teachers:** PR: C.I. Engines, heat pumps, kinetic theory, phase changes, radiation, weather.

**PHY 5524** AS-PHYS 3(3.0)

**Statistical Physics:** PR: PHY 3503, STA 3022, 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.

**PHY 5601** AS-PHYS 1(1.0)

**Quantum Physics for Teachers:** PR: C.I. Hydrogen atom, diatomic molecules, heat capacity transition rates.

**PHY 5606** AS-PHYS 3(3.0)

**Quantum Mechanics I:** PR: PHY 4605 or C.I. Basic postulates of quantum mechanics, operators, eigenvalues, parity, potential wells, harmonic oscillator, time dependent and time independent Schrödinger equation, matrix formulation, and time independent perturbation theory.

**PHY 5846C** AS-PHYS 3(3.3)

**Methods of Experimental Physics:** PR: Graduate standing or C.I. Introduction to methods of experimental physics, including instrumental design, data acquisition, vacuum, cryogenics, sample preparation, nuclear physics, transport, and spectroscopy.

**PHY 5933** AS-PHYS 3(3.0)

**Selected topics in biophysics of macromolecules:** PR: PHY 3101, CHM 2046, 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.

**PHY 3113** AS-PHYS 3(3.0)

**Introduction to Theoretical Methods of Physics:** PR: MAP 2302. Physical techniques to solve problems of physics.

**PHY 3151** AS-PHYS 3(3.0)

**Computer Methods in Physics:** PR: PHY 3101. Non-analytical problems in physics and astronomy solved by approximation with computer assistance.

**PHY 5304** AS-PHYS 3(3.0)

**Nuclear and Particle Physics:** PR: PHY 4604 or equivalent. Particles and nuclei, symmetries and conservation laws, interactions, models.

**PHY 5405** AS-PHYS 3(3.0)

**Condensed Matter Physics:** PR: PHY 4604, PHY 3101, or C.I. Crystal lattice cell structure, phonons, free electron model, band theory of solids, Fermi surface, solid state applications, and polymers.

**PHY 5425C** AS-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 content.

**PHY 5505** AS-PHYS 3(3.0)

**Plasma Physics:** PR: PHY 4324 or C.I. Introduction to theory and experimental basis of both weakly and highly ionized plasmas. Instabilities, plasma waves, nonlinear effects, controlled thermonuclear fusion.

**PHY 5600** AS-PHYS 1(1.0)

**Special Relativity for Teachers:** PR: C.I. Length contraction, time dilation, simultaneity, conservation of mass-energy, conservation of momentum, Compton scattering.

**PLA 3013** HPA-CJ/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.

**PLA 3104** HPA-CJ/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.

**PLA 3155** HPA-CJ/LS 3(3.0)

**Legal Writing:** PR: PLA 3104. A study of legal writing format and technique and the preparation of memorandum and other legal documents, using research skills learned in PLA 3104.

**PLA 3201** HPA-CJ/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.

**PLA 3201H** HPA-CJ/LS 3(3.0)

**Civil practice and Procedure - Honors:** PR: PLA 3013 or C.I. Same as PLA 3201 with honors level content.

**PLA 3273** HPA-CJ/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.

**PLA 3304** HPA-CJ/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.

**PLA 3308** HPA-CJ/LS 3(3.0)

**Criminal Procedure:** PR: PLA 3013 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.

**PLA 3610** HPA-CJ/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.

**PLA 4020** HPA-CJ/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.

**PLA 4223** HPA-CJ/LS 3(3.0)

**Advanced Trial Advocacy:** PR: PLA 4910 and C.I. Litigation and trials at an advanced level; student
must handle trial from beginning to end. May be repeated for credit.

PLA 4263 HPA-CJ/LS 3(3,0)
Evidence: PR: PLA 3013 and 3203 or C.I. An exami-
nation of statutes and cases that define rules of evi-
dence for trial courts. Primary emphasis is on the
Florida Evidence Code.

PLA 4423 HPA-CJ/LS 3(3,0)
The Law of Contracts: Study of the basic law of con-
tracts as developed in Anglo-American law and as
changed by modern statutes, including the Uniform
Commercial Code. Florida contract law will be
emphasized.

PLA 4433 HPA-CJ/LS 3(3,0)
Florida Partnerships and Corporations: Statutory
requirements of Florida partnerships and corpora-
tions; creation and dissolution of business organiza-
tions; responsibilities of officers and basic rights of
stockholders.

PLA 4460 HPA-CJ/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.

PLA 4472 HPA-PUB 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.

PLA 4483 HPA-CJ/LS 3(3,0)
Administrative Law: PR: PLA 3013 or PAD 3003.
The law regarding governmental agencies with
emphasis on the administrative process, Administra-
tive Procedures Acts and special problems of
state administrative law.

PLA 4530 HPA-CJ/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.

PLA 4583 HPA-CJ/LS 3(3,0)
Cyber Law I: PR: PLA 3013. Analysis of copyright,
trademark, and patent issues in cyberspace.

PLA 4601 HPA-CJ/LS 3(3,0)
Estates and Trusts: PR: PLA 3013, PLA 3504. A
study of wills and trusts, and applicable legal princi-
bles of administration of estates through the process-
es of the Probate Court.

PLA 4602 HPA-CJ/LS 3(3,0)
Estate Administration: PR: PLA 4601. Study of the
laws and procedures applicable to administration of
estates.

PLA 4631 HPA-CJ/LS 3(3,0)
Land Use and Environmental Law: PR: PLA 3013,
PLA 3504. Study of the law relating to private and
public interests on land use, including planning, zon-
ing, subdivision and building regulations, with empha-
sis on recent interpretations by judiciary for environ-
mental protection.

PLA 4700 HPA-CJ/LS 3(3,0)
Professional Ethics and Liability: PR: PLA 3013.
Ethical responsibilities of professionals. Canons of
legal ethics, liability for professional malpractice.

PLA 4710 HPA-CJ/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.

PLA 4732 HPA-CJ/LS 3(3,0)
Advanced Legal Applications Computer Software:
PR: PLA 3013 or CI. Course will acquaint students
with contemporary computer software applications
used to satisfy the demands of today's law firms and
law-related fields.

PLA 4763 HPA-CJ/LS 3(3,0)
Law Office Practices: PR: PLA 3013. Organization,
operation and management of law office. Interviewing
techniques and practical application of work that is
done in a law office.

PLA 4800 HPA-CJ/LS 3(3,0)
Domestic Relations Law: PR: PLA 3013, PLA 3504.
Role of the legal assistant in all phases of family and
juvenile law. Fundamental procedures and principles
applied by the courts to family problems.

PLA 4813 HPA-CJ/LS 3(3,0)
Juvenile Law and Procedure: PR: PLA 3013 or C.I.
Examines both the substantive and procedural law for
juvenile delinquency and dependency. Emphasis on
Florida law and comparison with other jurisdictions.

PLA 4823 HPA-CJ/LS 3(3,0)
Sports Law: PR: PLA 3013 or C.I. Introduction to the
legal issues and regulation of sports, focusing on
torts, contracts, agency and constitutional law as
applied to athletes.

PLA 4824 HPA-CJ/LS 3(3,0)
Legal Issues for Athletic Trainers: PR: C.I. Analysis
of the legal issues affecting athletic trainers

PLA 4825 HPA-CJ/LS 3(3,0)
Entertainment Law: PR: PLA 3013 or C.I. Intro-
duction to the control and regulation of the enter-
tainment industry and the associated legal issues.

PLA 4826 HPA-CJ/LS 3(3,0)
Advanced Entertainment Law: PR: PLA 4825. Legal
complexities and regulations pertaining to the
Entertainment Industry at an advanced level.

PLA 4830 HPA-CJ/LS 3(3,0)
World Legal Systems: PR: PLA 3013 or equivalent.
An examination of various legal traditions and sys-
tems of the World. Substantive and procedural laws
will be examined.

PLA 4910 HPA-CJ/LS 3(4,0)
Trial Advocacy: PR: PLA 3013 or CI. Analysis of the
entire litigation process form the initial client interview
through the appellate stage, and development of oral
advocacy skills.

PLA 4935 HPA-CJ/LS 3(3,0)
Capstone: Legal Issues: PR: senior status, Leagal
Studies major. The legal and socio-legal analysis of
selected issues that require students to synthesize
their legal studies education

PLA 5937 HPA-CJ/LS 3(1,2)
Seminar in Contemporary Legal Problems: PR:
C.I. Analysis of current trends in legislation and court
decisions and their significance to American society.

POR 1120 AS-LANG 4(4,1)
Elementary Portuguese Language and Civilization
I: PR: PLA 3013 or C.I. An examination of the
history of Portuguese culture through the major
language skills: listening, speaking, reading, and writ-
ing. Open only to students with no previous
experience in this language.

POR 1121 AS-LANG 4(4,1)
Elementary Portuguese Language and Civilization
II: PR: POR 1120 or C.I. Continuation of POR 1120.
The course emphasizes the four major language
skills: reading, writing, listening, and speaking.

POR 3140 AS-LANG 3(3,0)
Advanced Portuguese for Speakers of Romance
Languages: PR: POR 2201, or ITA 2201, or SPA
2231, or course equivalent. Advanced Portuguese
for proficient speakers of Romance Languages. It is
expected that students have prior knowledge of
Portuguese.

POS 2041 AS-POLS 3(3,0)
American National Government: A study of the
dynamics of American national government, including
its structure, organization, powers, and procedures.

POS 2041H AS-POLS 3(3,0)
Honors American National Government: Same as
POS 2041 with honors-level content.

POS 3122 AS-POLS 3(3,0)
State Government and Public Policy: PR: POS
2041 or C.I. A comparative study of American state
governments, political processes, and public policies,
with emphasis on Florida.

POS 3173 AS-POLS 3(3,0)
Southern Politics: PR: POS 2041 or C.I. Study of
southern politics past and present. Emphasis on fac-
tors effecting changes in the region and the states.
Southern and national relationship examined.

POS 3182 AS-POLS 3(3,0)
Florida Politics: PR: POS 2041 or C.I. Examines the
foundations of Florida government and political
behavior, political institutions, and public policy.

POS 3233 AS-POLS 3(3,0)
Public Opinion: PR: Junior standing or C.I. Nature,
impact and development of public opinion, emphasize-
ing the influence of race, gender, age, and class on
opinions, voting, and political behavior.

POS 3235 AS-POLS 3(3,0)
Mass Media and Politics: PR: POS 2041 or C.I.
Influence of media on campaigns, public officials,
public opinion, the definition of political news, and
selected public policies.

POS 3253 AS-POLS 3(3,0)
Contemporary Revolution and Political Violence:
Theories and cases of revolutionary change and polit-
ical violence in the contemporary world.

POS 3258 AS-POLS 3(3,0)
Politics in Film: PR: POS 2041 or C.I. The influence
of motion pictures on popular understanding of
American and international politics.

POS 3273 AS-POLS 3(3,0)
Voting and Elections: Theoretical and substantive
inquiry into U.S. electoral system; includes focus on
to voter behavior as well as national and state electoral
systems.

POS 3413 AS-POLS 3(3,0)
The American Presidency: PR: POS 2041 or C.I.
Examination of historical and contemporary role of the
presidency, including the presidential selection process
and the office's evolution in status, powers, admis-
strative responsibilities, leadership, and deci-

don-making.

POS 3424 AS-POLS 3(3,0)
Congress and the Legislative Process: PR: POS
2041 or C.I. Examination of the Congress as an insti-
tution undergoing dynamic change; emphasis upon
recruitment of legislators, institutional and informal
rules, the committee system, legislative procedures.

POS 3443 AS-POLS 3(3,0)
Political Parties and Processes: PR: POS 2041 or
C.I. In-depth study of the American political party
system in the context of changing American politics;
top-
ics include development, organization, reforms, leg-
islative and executive roles.

POS 3463 AS-POLS 3(3,0)
Interest Groups: PR: POS 2041 or C.I. 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.

POS 3627 AS-POLS 3(3,0)
Cultural Pluralism and Law: PR: POS 2041. A case
law approach to the legal and constitutional aspects
of historical and current issues facing minorities in the U.S.

POS 3703 AS-POLS 3(3,0) Scope and Methods of Political Science: PR: Junior standing or C.I. The scope and methodology of political analysis. Extensive examination of the discipline, research design and methodology.

POS 3949 AS-POLS 0(0,8) Cooperative Education in Political Science: PR: Departmental permission required before registering. Cooperative education experience in political science. May be repeated. Graded S/U.

POS 4142 AS-POLS 3(3,0) 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.

POS 4204 AS-POLS 3(3,0) Political Behavior: PR: POS 2041 or C.I. Mass political behavior, concentrating on voting and participation, primarily in the United States.

POS 4206 AS-POLS 3(3,0) 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.

POS 4246 AS-POLS 3(3,0) Political Socialization: PR: POS 2041 or C.I. Analysis of recruitment and socialization processes. Identification of the agents and processes of political socialization in national and cross-cultural contexts.

POS 4284 AS-POLS 3(3,0) Judicial Process and Politics: Study of the formal and informal judicial process. Legal culture, bureaucratic model, judicial recruitment and outputs, comparative judicial behavior.

POS 4412 AS-POLS 3(3,0) Presidential Campaigning: PR: C.I. Introduces the process of candidate selection, convention behavior, actual campaign process and the transition of power.

POS 4603 AS-POLS 3(3,0) American Federalism: PR: POS 2041 or C.I. Development of American federalism and national power, commerce clause, and nationalization of the economy.

POS 4604 AS-POLS 3(3,0) American Constitutional Law II: PR: POS 2041 or C.I. Development of civil liberties and civil rights in the American federal system.

POS 4622 AS-POLS 3(3,0) Politics and Civil Rights: PR: Junior standing or C.I. Examination of civil rights issues in the context of political behavior, political institutions and public policy since 1865.

POS 4742 AS-POLS 3(3,0) Geographic Information Systems for the Political Scientist: PR: POS 2041. Theoretical assumptions, analytical possibilities, and application of Geographic Information Systems for political science research.

POS 4941L AS-POLS 3-9(0,3-9) Political Science Internship: PR: C.I. Internship working with the national, state, county or municipal government. Assignments with selected civic organizations, elected or appointed officials. May be repeated for credit.

POT 3204 AS-POLS 3(3,0) American Political Thought: From its sources to the 20th century, including liberalism, puritanism, the Federalist, the rise of industrialism, resulting social movements, modern variations.

POT 3302 AS-POLS 3(3,0) Modern Political Ideologies: A study of modern ideologies since the French Revolution including liberalism, conservatism, capitalism, nationalism, fascism and anarchism.

POT 4003 AS-POLS 3(3,0) Political Theory: PR: POS 2041 or C.I. Examination of various normative approaches to the study of political science, stressing contemporary developments in the field.

POT 4025 AS-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.

POT 4054 AS-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).

POT 4066 AS-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 communitarian Martin, libertarian, and feminist critiques of liberalism.

POT 4109 AS-POLS 3(3,0) Politics and Literature: PR: Junior standing. An examination of politics and the political process through the medium of literature.

POT 4305 AS-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 Axelrod.

POT 4314 AS-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.

POT 4331 AS-POLS 3(3,0) Utopia/Disutopia: PR: Junior standing or C.I. Examines political issues, such as justice, economic distribution and social organization by exploring both classic and contemporary utopias and dystopias.

POT 4414 AS-POLS 3(3,0) Marxist Political Theory: Survey of Marx & Engels and other thinkers, exploring the theoretical underpinnings of nations and groups who have adapted marxist principles for governance.

POT 4632 AS-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.

PPE 3003 AS-PSYCH 3(3,0) Personality Theory: PR: PSY 2012. A survey of the theory and research on the development of personality characteristics.

PPE 5055 AS-PSYCH 3(3,0) Personality Theories: PR: G.A. or C.I. Critical theoretical models of personality development with applications to counseling, psychotherapy and psychological assessment.

PSB 3002 AS-PSYCH 3(3,0) Physiological Psychology: PR: PSY 2012. The physiological basis of behavior, emphasizing the relationship between the nervous system and behavior.

PSB 3441 AS-PSYCH 3(3,0) Psychobiological Aspects of Drugs: PR: PSY 2012. An advanced course designed for health professionals. Focuses on pharmacology, neurophysiology and neuroanatomy as the foundation of understanding, behavior and social consequences of drug use.

PS 3842 AS-PSYCH 3(3,0) Sleep and Dreams: PR: PSY 2012. An overview of the psychological and physiological foundations of sleep and dreams. Concrete facts and disturbances of sleep. Cultural perspectives on, and contemporary applications of dreams.


PSB 4422 AS-PSYCH 3(2,2) Brainwaves and Behavior: PR: PSY 3002. Review of research and clinical practice in the use of computerized EEG for treatment of selected physical and psychological disorders.

PSB 5005 AS-PSYCH 3(3,0) Physiological Psychology: PR: PSY 3002 or C.I. An advanced survey of the physiological basis of behavior, emphasizing the relationship between the nervous system and behavior.

PSC 1121 AS-PHYS 3(3,0) Physical Science: PR: MAC 1105 or MGF 1106. Fundamental laws of mechanics, heat, waves, electricity, magnetism, chemical and physical transformations.

PSC 1121H AS-PHYS 3(3,0) Honors Physical Science: PR: Honors college, MAC 1105 or MGF 1106. PSC 1121 with Honors-level content.

PSC 1121L AS-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.

PSY 2012 AS-PSYCH 3(3,0) General Psychology: A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity.

PSY 2012H AS-PSYCH 3(3,0) Honors General Psychology: A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity. Honors-level content.

PSY 2023 AS-PSYCH 1(1,0) Careers in Psychology: PR: PSY 2012. An examination of various career opportunities in Psychology, including educational entry requirements, and related professional issues. Graded S/U.

PSY 3204 AS-PSYCH 4(3,2) Statistical Methods in Psychology: PR: STA 2014C or STA 2023. Standard scores, sampling distributions, hypothesis testing, correlation and regression as applied to research in psychology.

PSY 3214C AS-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.
PSY 3214H AS-PSYCH 4(3,2)
Honors Research Methods in Psychology: PR: Permission of Honors and PSY 2012 and STA 2045 or STA 2023. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format. Honors consent.

PSY 3220C AS-PSYCH 3(2,2)

PSY 3302 AS-PSYCH 3(3,0)

PSY 3624 AS-PSYCH 3(3,0)
Parapsychology: PSY: PSY 2012. An examination of the history and development of research on paranormal phenomena, with special emphasis on recent developments in extrasensory perception and psychokinesis.

PSY 3951 AS-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.

PSY 4025 AS-PSYCH 3(3,0)
The Psychology of Art: PR: PSY 2012 and ARH 205X. Discussion of the psychological perspectives on art to gain a greater understanding and enhanced appreciation for the process and products of creativity.

PSY 4215C AS-PSYCH 4(3,2)
Advanced Research Methods in Psychology: PR: PSY 3214C. Design, analysis, and interpretation of complex research projects in psychology.

PSY 4215L AS-PSYCH 3(0,3)
Advanced Research Methods Statistical Lab: PR: PSY 3214C and CR: PSY 4215C. Data analysis and research reporting procedures. Experience in analyzing and explaining the methods and results used in research reports.

PSY 4305C AS-PSYCH 3(1,4)
Advanced Psychological Measurement: PR: or CR: PSY 3002. Application of the theory underlying psychological test and measurement procedures, including reliability, validity, and item analysis.

PSY 4604 AS-PSYCH 3(0,3)
History and Systems of Psychology: PR: EXP 3404 and PPE 3003. Historical development of psychology, with emphasis on classical theoretical positons.

PSY 5605 AS-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.

PUP 3203 AS-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.

PUP 3314 AS-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.

PUP 3508 AS-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.

PUP 4003 AS-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.

PUP 4204 AS-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.

PUP 4209 AS-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.

PUP 4323 AS-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.

PUP 4404 AS-POLS 3(3,0)
Education and Politics: PR: Junior standing or C.I. Western education and the connection between citizen-ship and education funding, and the politics of education reform.

PUP 4503 AS-POLS 3(3,0)
Government and Science: PR: C.I. Examination of the interweave between science and government. Focus is upon governmental support for science, social accountability, and the role of the scientist-policy maker in comparative context.

PUP 4510 AS-POLS 3(3,0)
Space Policy: An examination of the politics and policy-making involved with the US space program in the context of domestic demands and other international space programs.

PUP 4602 AS-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.

PUP 4744 AS-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.

PUP 4931 AS-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.

PUR 3100 AS-COMM 3(2,1)
Writing for Public Relations: PR: Majors only. Grammar Proficiency Examination, and typing test. Development of skills in writing for public relations.

PUR 4000 AS-COMM 3(3,0)
Public Relations: PR: SPC 1600C. Principles and practice of Public Relations including techniques, research tools publicity, and management.

PUR 4110C AS-COMM 3(1,3)
Public Relations Publications: PR: ENC 2210 or PUR 3100 or SPC 1600C. Basic principles and techniques of desktop production of public relations publications.

PUR 4800 AS-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.

PUP 4801 AS-COMM 3(3,0)
Public Relations Case Studies: PR: PUR 4000 or C.I. Discussion and analysis of public relations cases highlighting the application of PR theory to answer organizational goals.

RAT 3001 HPA-HP 3(3,0)

RAT 3241 HPA-HP 3(3,0)
Clinical Radiobiology: Application of the principles and theories of radiobiology to the clinical practice of radiation therapy.

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.

RAT 3614 HPA-HP 2(2,0)
Radiation Therapy Physics I: PR: Acceptance to program. Study of radiation production, properties, interactions, measurement, and protection.

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.

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.

RAT 4619C HPA-HP 4(3,3)
Radiation Therapy Physics III: PR: RAT 4618. Study of treatment planning principles and techniques, including multiple beam therapy, rotation therapy, arc therapy, and irregular field techniques.

RAT 4804L HPA-HP 5(0,20)
Clinical Education I: PR: RTE 3000, 3111, 3528, 3684, 3804, 3457, 3459, or C.I. Supervised clinical practice in patient care and orientation to radiation therapy simulation, and treatment planning and delivery procedures.

RAT 4814L HPA-HP 6(0,24)
Clinical Education II: PR: RAT 4804. Supervised clinical practice in patient care, education, simulation, treatment planning and delivery and utilization of treatment units.

RAT 4824L HPA-HP 6(0,24)

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.

RED 3310 ED-TLP 3(3,0)
Emerging Literacy: PR: Admission to program, or C.I. Investigates emergence of reading/writing processes during preschool, kindergarten, and early first grade years.

RED 4043 ED-TLP 3(3,0)
Content Reading in Kindergarten through Grade
12: PR: Admission to the teacher education program and junior or senior class standing. Content literacy in the K-12 school curriculum: principles, strategies, assessment, and promising practices.

RED 4311 ED-TLP 3(3,0) Development of Literacy: PR: RED 3310. Methods for development of reading and writing process during primary (first - third) grades.

RED 4519 ED-TLP 3(3,1) Diagnostic and Corrective Reading Strategies: PR: RED 3012 or C.I. and admission to Phase II. An investigation of the needs of individual learners in reading instruction. Organization and techniques for promoting optimum reading growth. Concurrent school experiences required.

RED 5147 ED-TLP 3(3,0) Developmental Reading: PR: EDG 4323. Principles, procedures, organization, and current practices in the elementary reading program. Materials and methods of instruction.

RED 5514 ED-TLP 3(3,1) Classroom Diagnosis and Development of Reading Proficiencies: PR: RED 5147 or equivalent. Classroom diagnosis and corrective teaching in reading. Instructional materials. Case study required.

REE 3043 BA-FIN 3(3,0) Fundamentals of Real Estate: PR: Junior standing. Application of basic tools of economics, finance, and marketing to solve private and public sector real estate problems.

REE 3433 BA-FIN 3(3,0) Real Estate Law: PR: Junior standing. An analysis of real estate law with emphasis on Florida statutes and case law.

REE 4103 BA-FIN 3(3,0) Real Estate Appraisal and Valuation: PR: FIN 3403. Focus on the fundamentals of real estate valuation utilizing tools of financial and economic analysis.

REE 4204 BA-FIN 3(3,0) Real Estate Finance: PR: FIN 3403. Focus on the fundamentals of real estate finance utilizing tools of financial and economic analysis.

REE 4303 BA-FIN 3(3,0) Real Estate Investment Analysis: PR: FIN 3403. Focus on real estate decision-making in the private sector utilizing tools of financial and economic analysis.

REE 4732 BA-FIN 3(3,0) Real Estate Development: PR: REE 4303. The real estate development process, from the inception of a project through the leasing-up, long-term financing, and final sale to the investment community.

REL 2300 AS-PHI 3(3,0) World Religions: Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam.


REL 3131 AS-PHI 3(3,0) Religion in America: PR: REL 2300. Religious traditions in America, their relationship to politics, popular culture, media, and society.

REL 3162 AS-PHI 3(3,0) Healing: Culture, Art and Praxis: PR: Junior standing. A theory of the culture-specific nature of illness, including soul loss, spirit intrusion and the medicalization of deviance.

RET 3026C HPA-HP 4(3,3) Introduction to Respiratory Care: PR: Admission to the 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.

RET 3174 HPA-HP 3(3,0) Pediatric Respiratory Care: PR: RET 3026. The study of childhood respiratory diseases, congenital problems, infections, metabolic disorders, and AIDS.

RET 3264C HPA-HP 3(2,3) 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.

RET 3483 HPA-HP 1(1,1) Respiratory Disease Assessment: PR: RET 3026C. Physical examination of the chest, demonstrating diagnostic and theory. Chest radiography will be extensively covered. Lecture and demonstration.


RET 4284 HPA-HP 3(3,0) Cardiopulmonary Diagnostics I: PR: RET 4424C. Non-invasive cardiac diagnostics, including echocardiography, nuclear cardiology, and stress testing.

RET 4285 HPA-HP 3(3,0) Cardiopulmonary Diagnostics II: PR: RET 4424C and RET 4284C. Invasive cardiac diagnostic and therapeutic measures, including cardiac catherization, PTCA, streptokinase use, and heart surgery.

RET 4414C HPA-HP 4(3,3) Pulmonary Function Studies: PR: RET 3026C. Detailed procedures and tests to provide information for diagnosis of pulmonary disease. Lecture-laboratory.

RET 4441 HPA-HP 3(3,0) Vascular Ultrasound: Study of application of ultrasound in the diagnosis of vascular diseases. Includes doppler and flow doppler examination of arterial and venous system.

RET 4443 HPA-HP 4(3,3) Advanced Cardiac Ultrasound: PR: RET 4284 or C.I. Study of advanced applications of ultrasound in the diagnosis of cardiac abnormalities. Two-dimensiona echo, conventional doppler, and color doppler covered.

RET 4503 HPA-HP 3(3,0) Chest Medicine: PR: RET 3026. Disease states treated medically in conjunction with one or more modalities of respiratory therapy.

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.


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.

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.

RMI 3011 BA-FIN 3(3,0) Principles of Risk and Insurance: PR: FIN 3403. Emphasis is on insurance as a risk-handling device, with attention given to risk assessment, risk avoidance, and loss prevention.

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.

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.

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.

RTE 3308 HPA-HP 3(3,0) Medical Physics: PR: RTE 3684C or C.I. Study of radiation production, characteristics, detection and measurement, and protection, including barrier thickness calculation and shielding.

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.

RTE 3457C HPA-HP 3(2.5,1.5) Principles of Radiographic Exposure II: PR: RTE 3418 or C.I. Study of technical and photographic processing variables influencing conventional, radiographic and digital image quality.

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.

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.

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.

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.

RTE 4202 HPA-HP 3(0,8) Methods in Radiology Management: Concepts of radiology, department management, including principles, personnel management, evaluation and improvement techniques, budgeting, financial considerations and legal aspects, and JC/AA quality assurance specifications.

RTE 4206 HPA-HP 3(0,8) Leadership in Radiological Sciences: PR: Senior level status in RS major or C.I. Study of the theories, principles and skills needed to function in a leadership position in Radiological Sciences.

RTE 4209 HPA-HP 2(0,8) Radiological Administrative Practice: A directed practice in the management of a radiology department. Application of theory and methodology.

RTE 4395 HPA-HP 1(1,0) Radiobiology: PR: RTE 3308C. A study of the effects of ionizing radiation on biological systems. The responses at the cellular and total organism level are investigated.

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.

RTE 4563 HPA-HP 2(2,0) Special Radiographic Procedures: PR: RTE 3513C or C.I. Principles of nonvascular invasive procedures, including myelography, cholangiography, hysterosalpingography, and bronchography.

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.

RTE 4762 HPA-HP 3(3,0) Anatomy for the Medical Imaging: A study of the normal anatomical structures and interrelationships of structures as demonstrated in a radiographic and cross-sectional imaging reference.

RTE 4782 HPA-HP 2(2,0) Pathophysiology: PR: C.I. The study of radiologic science in the diagnosis and treatment of disease.

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.

RTE 4824L HPA-HP 6(0,24) Clinical Education III: PR: RTE 4814. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the pelvis, thoracic cavity, vertebral column and portable and surgical radiography.

RTE 4834 HPA-HP 4(0,16) Clinical Education IV: PR: RTE 4824. Supervised clinical practice in radiographic/fluoroscopic procedures with emphasis on examinations of the cannial, facial bones, and special procedures.

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.

RTE 4854 HPA-HP 2(0,8) Advanced Clinical Practicum: PR: RTE 4824, Supervised clinical experience and/or practice in computed tomography, interventional, vascular, and magnetic resonances imaging.

RTE 4903 HPA-HP 2(0,8) Directed Study in Radiologic Education: PR: ETV 3371 or EDG 4232 or C.I. Directed activity in classroom-instruction in radiologic technology.

RTE 2102 AS-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.

RTE 3000 AS-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.

RTE 3200 AS-R/TV 3(3,0) Production Fundamentals and Aesthetics of Electronic Media: PR: RTE 3000 or C.I. Technical and creative concepts of analog and digital electronic media production for radio, television, and multimedia delivery systems.


RTE 3223C AS-R/TV 3(3,3) Lighting for Video: PR: RTE 3228C, RTV Major. Basic lighting techniques for both studio and location, single and multiple-camera video production.

RTE 3228C AS-R/TV 4(3,3) Studio Television Production: PR: RTE 3200 and RTV Major. All aspects of analog and digital television studio production including audio mixers, microphones, tape recorders, cameras, video switchers, lighting, and electronic graphics.

RTE 3231C AS-R/TV 4(1,3) Broadcast Announcing and Performance: PR: RTV Majors only, RTE 3210C or RTE 3260C or RTE 4270C or C.I. Communication problems on camera and microphone. Development of performance skills in announcing, interviewing, narrating, and reporting.

RTE 3260C AS-R/TV 4(4,3) Single Camera Video Production and Editing: PR: RTE 3200, RTV Major. 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).

RTE 3263C AS-R/TV 3(3,3) Advanced Video Post-Production: PR: RTE 3280C, RTV Major. 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.

RTE 3283C AS-R/TV 3(3,1) Production of Interactive Multimedia: PR: CGS 1060C, major status in RTV, Ad/PR, Journalism, Organizational or Interpersonal Communication. Practice and production of electronic interactive multimedia for the broadcast industry.

RTE 3301 AS-R/TV 3(3,0) Electronic Journalism I: PR: RTE 2102, RTV Major. Newswriting and newsgathering skills and strategies and their accompanying ethical considerations for analog and digital delivery systems.

RTE 3304 AS-R/TV 3(3,0) Electronic Journalism II: PR: RTE 3301, RTV 3260C, and RTV Major. Newswriting and newsgathering strategies learned in RTE 3301 are integrated into a newsgathering context for actual production of analog and digital radio and television news packages.

RTE 3501 AS-R/TV 3(1,2) Broadcast Copywriting: PR: RTV Majors only. Grammar Proficiency Examination and School Typing Exam. Preparation of written public service and commercial copy for radio and television.

RTV 3942L AS-R/TV 1-3(0,3-9) Practicum: 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.

RTV 4206C AS-R/TV 4(4,3) Television Directing: PR: RTE 3228C, RTV Major. Preparation and direction of programs, using both digital and analog resources, with emphasis on dramatic value and composition.

RTV 4211C AS-R/TV 3(3,3) Audio Production II: RTV 3210C and RTV Major. Creating the sound design and multiple track recording in the analog and digital domain.

RTV 4270C AS-R/TV 3(3,3) Radio Production and Programming: PR: RTE 3200, RTV Major. Study and production of current radio formats, the integration of digital resources, and their effects on today's radio listener.

RTV 4280C AS-R/TV 3(3,3) Webcasting I: PR: RTV Major and PR or CR: RTV 3283C. Presentation of broadcast material on the web. Integrates the distribution of radio, television, and web content.

RTV 4281C AS-R/TV 3(3,3) Webcasting II: PR: RTV 4280C and RTV Major. Production of digital media in conjunction with other RTV production activities to repurpose broadcast content for delivery on the web.

RTV 4230C AS-R/TV 3(1,3) Television News: PR: RTE 3200, RTV Major. Production of a weekly campus newscast. Daily newsgathering and production decisions are conducted by students under the advisement of the instructor functioning as news director.

RTV 4403 AS-R/TV 3(3,0) Electronic Media, Technology, and Society: PR: or CR: RTE 3300. Theories of mass communication, mass communication effects, and emerging communication technologies, including digital media.

RTV 4503 AS-R/TV 3(3,0) Sports Programming on Broadcast and Cable: PR: RTE 3000 or C.I. An examination of the factors that determine how sporting events are constructed for programming on broadcast stations and cable systems.

RTV 4505 AS-R/TV 3(3,1) Program Issues for TV & Motion Pictures: PR: RTE 3000 or FIL 2400. An examination of program development theories, strategies and issues in the television and motion picture industries.

RTV 4700 AS-R/TV 3(3,0) Regulation of Broadcasting: PR: RTV Majors only. RTE 3000. Federal, state, local and self-regulatory agencies and practices which govern electronic media.
RTV 4800 AS-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.

RUS 1120 AS-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.

RUS 1121 AS-LANG 4(4,1)
Elementary Russian Language and Civilization II: PR: RUS 1120 or equivalent. Continuation of RUS 1120.

RUS 2210 AS-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.

RUS 2230 AS-LANG 3(3,1)
Intermediate Russian Language and Civilization I: PR: RUS 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

RUS 2231 AS-LANG 3(3,1)
Intermediate Russian Language and Civilization II: PR: RUS 2230 or equivalent. Continuation of RUS 2230, with emphasis on Russian civilization.

RUS 3240 AS-LANG 3(3,0)
Russian Conversation: PR: RUS 2231 or equivalent. Development of skills in conversation and comprehension through practice.

RUS 3760 AS-LANG 3(3,0)
Advanced Russian Oral Communication: PR: RUS 2231 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.

SCE 3310 ED-TLP 3(3,0)
Teaching Science in Elementary School: PR: Junior standing or C.I. Selected concepts; organizing for instruction; techniques; evaluation procedures.

SCE 4023 ED-TLP 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.

SCE 4360 ED-TLP 4(3,2)
Science Instructional Analysis: PR: EDG 4323 or C.I. Course objectives for a school curriculum and methods and materials for the middle grades and high school.

SCE 5716 ED-TLP 3(3,0)

SCE 5825 ED-TLP 3(3,0)
Space Science for Educators: PR: Senior standing or C.I. Introduction to space science, manned space flight, and space education curriculum.

SLS 1501 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.

SLS 2311 HPA-M&M 1(0,2)
Overview of Select Medical Careers: An overview of the pre-health professions process for careers in medicine, dentistry, veterinary medicine, optometry, pharmacy, podiatry, and chiropractic. Graded S/U.

SOP 2772 AS-PSYCH 3(3,0)

SOP 3004 AS-PSYCH 3(3,0)

SOP 3723 AS-PSYCH 3(3,0)
Cross Cultural Psychology: PR: PSY 2012. Exploration of theories, issues, and research concerned with the psychological understanding of underrepresented minority groups.

SOP 3724 AS-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.

SOP 3742 AS-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.

SOP 3784 AS-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.

SOP 5059 AS-PSYCH 3(3,0)
Advanced Social Psychology: PR: SOP 3004 and graduate status, or C.I. The major findings and theories in social psychology including an in-depth review of relevant research.

SOW 3104 HPA-SOWK 3(3,0)

SOW 3111 HPA-SOWK 3(3,0)

SOW 3203 HPA-SOWK 3(3,0)
Social Welfare and Community Resources: Study of social welfare, programs and services, including forces affecting changes in societal responses to human needs. Open to non-majors and pending social work majors.

SOW 3300 HPA-SOWK 3(2,1)
Practice I: Generalist Practice in Social Work: Study of social work functions, knowledge, values, and skills. Development of ability to use a generalist model of practice.

SOW 3352 HPA-SOWK 3(2,1)
Practice II: PR: or CR: SOW 3300. Interpersonal Skills in Social Work: PR or CR: SOW 3300. Study and practice of interviewing, group leadership, written communication, and oral presentations, in consensual practices as well as conflictual contexts of social work.

SOW 3401 HPA-SOWK 3(3,0)
Social Work Research: PR: CGS 1060C. Study of quantitative and qualitative methods of building knowledge for social work and the ethical use of research in professional practice.

SOW 3420 HPA-SOWK 3(2,1)
Social Work with Minorities: PR: SOW 3300, SOW 3203, and SOW 3104. Study of oppressed groups and relevant social work interventions; skill development in work with, and in behalf of, people of minority groups.

SOW 4232 HPA-SOWK 3(3,0)

SOW 4341 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.

SOW 4343 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.

SOW 4431 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.

SOW 4510 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.

SOW 4522 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.

SOW 4602 HPA-SOWK 3(3,0)
Social Work in Health Settings: PR: SOW 3300 and SOW 3104. Study of social work roles, interventions, and issues related to helping patients in health settings.

SOW 4645 HPA-SOWK 3(3,0)
Social Services for the Elderly: PR: SOW 3300, SOW 3104, or Gerontology Certificate Major. Development of interventional skills for obtaining, providing, and improving social services in behalf of elderly persons and their families.

SOW 4654 HPA-SOWK 3(3,0)

SOW 4705 HPA-SOWK 3(3,0)

SOW 4706 HPA-SOWK 3(3,0)
Intervention with Substance Abusers: PR: Junior Standing. Strategies for working with persons who abuse alcohol, other drugs and substances.

SOW 5105 HPA-SOWK 3(3,0)
analyzing social policies and services; social welfare systems; introduces frameworks for societal responses to human needs; forces shaping service issues of several identified minority client populations, focusing on the needs, resources, problems, and service issues of several identified minority client populations.

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.

SOW 5109 HPA-SOWK 3(3,0)
Violence Against Women: A Global Perspective: PR: Graduate status or C.I. 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.

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.

SOW 5235 HPA-SOWK 3(3,0)
Social Welfare Policies and Services: Study of societal responses to human needs; forces shaping social welfare systems; introduces frameworks for analyzing social policies and services.

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 model of practice.

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.

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.

SOW 5387 HPA-SOWK 3(3,0)
nonprofit Resource Development: PR: Admission to certificate 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.

SOW 5404 HPA-SOWK 3(3,0)
Social Work Research: Study of group research designs in social work; quantitative analyses; and related ethical issues.

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.

SOW 5532 HPA-SOWK 2(2,0)
Generalist Field Education I: PR: Admission to MSW Prog., Supervised practice of social work in an agency for 224 clock hours. Graded S/U.

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.

SOW 5534 HPA-SOWK 1(1,0)
Generalist Field Education Integrative Seminar I: PR: Admission to MSW program. CR: SOW 5532. Seminar designed to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U.

SOW 5537 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.

SOW 5604 HPA-SOWK 3(3,0)
Medications in Social Work Practice: PR: graduate standing, senior status, and C.I. Social Work Program. C.I. The study of the effects that psychotropic medications can have within the counseling/theraplay relationship.

SOW 5624 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.

SOW 5625 HPA-SOWK 3(3,0)
Social Work with Women: Alternative approaches to the treatment of women in the urban setting.

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.

SOW 5644 HPA-SOWK 3(3,0)
Interventions with Elderly and Their Families: PR: Admission to Gerontology graduate certificate 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.

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.

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.

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.

SOW 5695 HPA-SOWK 3(3,0)

SOW 5712 HPA-SOWK 3(3,0)
Interventions with Substance Abusers: Strategies for working with persons who abuse drugs, alcohol, and other substances.

SOW 5713 HPA-SOWK 3(3,0)
Prevention and Treatment of Adolescent Substance Abuse: PR: Graduate Status or C.I. An in-depth review of prevention, intervention and treatment of Adolescent Substance Abuse.

SOW 5846 HPA-SOWK 3(3,0)
Spirituality in Professional Counseling: PR: graduate standing, post-bac status, seniors, or C.I. Examination of spirituality as it relates to professional counseling.

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.

SPA 3000 HPA-COMD 3(3,0)

SPA 3002 HPA-COMD 3(3,0)
Introduction to Communicative Disorders: Etiology, symptoms, and methods of diagnosing and treating communicative disorders. For beginning and prospective professionals majoring in communicative disorders.

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.

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.

SPA 3104 HPA-COMD 3(3,0)
Neural Bases of Communication: PR: SPA 3101. Structures and functions of the nervous system involved in communication and speech disorders.

SPA 3112 HPA-COMD 3(3,0)
Basic Phonetics: CR: SPA 3112L. Physiological descriptions and visual notations of standard speech patterns and regional dialects.

SPA 3112L HPA-COMD 1(0,1)

SPA 3123 HPA-COMD 3(3,0)

SPA 3123L HPA-COMD 1(0,1)

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.

SPA 3632 HPA-COMD 3(3,0)
Communicative Disorders in the Deaf and Hard of Hearing Population: PR: SPA 2631 or C.I. Speech, language, and hearing problems in the Deaf/Hard of Hearing population, including etiology, pathology, and management of hearing disorders.

SPA 4032 HPA-COMD 3(3,0)

SPA 4050L HPA-COMD 3(0,6)
Clinical Observation: PR: SPA 4550. Observation of speech, language, and hearing evaluations and interventions. Emphasis on goal setting, motivation, behavior management, shaping, reinforcement, data collection, and non-verbal communication.

SPA 4052L HPA-COMD 3(0,3)
Clinical Practice/Participant Observation: PR: SPA 4550. Supervised participation in on-campus clinic serving as participant observer with one client. Emphasis on applying skills learned in Clinical Methods and Clinical Observation.

SPA 4201 HPA-COMD 3(3,0)
Articulation And Phonological Disorders: PR: SPA 3002, SPA 3112C. The etiology, assessment, and management of articulation and phonological disor-
SPA 4241 HPA-COMD 3(3,0) Genetic Aspects of Communication Disorders: PR: BSC 2010C, Junior or senior standing. Theoretical framework for understanding human genetics and the genetic aspects of communication and feeding disorders.

SPA 4321 HPA-COMD 3(3,0) Aural Habilitation: Rehabilitation: PR: SPA 4032, SPA 4400C, SPA 4201C. Principles and procedures in the use of residual hearing, auditory training, speech reading, and the use of hearing aids.

SPA 4400 HPA-COMD 3(3,0) Language Disorders Across the Life Span: PR: LIN 3717. Etiology, assessment, and management of language disorders in children, adolescents, and adults, including those associated with autism, traumatic brain injury, learning disabilities, and dementia.

SPA 4550 HPA-COMD 3(3,0) Clinical Methods in Communicative Disorders: CR: SPA 4050L, SPA 4301 and SPA 4400. The principles and techniques of case management with an emphasis on designing individualized treatment programs for individuals with communication disorders.

SPA 4556 HPA-COMD 3(3,0) Therapeutic Communication: Practical interviewing and counseling in the area of communicative disorders.

SPA 4557 HPA-COMD 3(3,0) Augmentative Communication Systems: PR: LIN 3710, SPA 4032. Students will learn the rudiments of nonverbal communication systems, for example, Bliss, Rebus, Manual Singing, Language Boards, and finger spelling.

SPA 4612 HPA-COMD 3(3,0) Introduction to American Sign Language: Development of ASL vocabulary and grammar. Deaf culture, literature, research examined.

SPA 4613 HPA-COMD 3(3,0) Intermediate American Sign Language: Expansion of ASL vocabulary with increased development of knowledge concerning deaf culture.


SPA 4615 HPA-COMD 4(4,0) American Sign Language IV: PR: SPA 4614C or consent of instructor. Advanced study in complex grammar, facial expression, metaphorical and idiomatic vocabulary, emphasizing production of non-voiced, conversational, spontaneous signed sentences. "Reading" signed phrases and sentences.

SPA 4617 HPA-COMD 3(3,0) Structure of American Sign Language: PR: 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.

SPA 4626 HPA-COMD 3(3,0) Fingerspelling: PR: SPA 4612 and SPA 4613 or C.I. The study and practice of fingerspelling techniques to improve receptive and expressive fingerspelling proficiency beyond sign language skills.

SPA 4652 HPA-COMD 3(3,0) Ethics of Interpreting Sign Language: PR: SPA 4612, SPA 4613, SPA 4614C. A study of the role of the interpreter, including business practices, professional conduct and interpreting settings.
SPN 2240 AS-LANG 3(3,1)

Intensive Spanish Conversation: PR: One year of Spanish or equivalent. Practical use of the language, leading toward fluency and correctness in speaking at the intermediate level.

SPN 2241 AS-LANG 3(3,0)

Spanish Conversation: PR: SPN 2231 or equivalent. Development of skills in conversation and comprehension through practice.

SPN 2340 AS-LANG 3(3,0)

Spanish for Native Speakers: PR: Must be a native speaker. Intensive Spanish for native speakers who have had little or no formal training in the language.

SPN 2511 AS-LANG 3(3,0)

Modern Spanish Civilization Abroad: PR: SPN 1120 & 1121. This intensive course will focus on modern Spanish culture using examples from present day society. Cultural visits and realia are essential components of this course.

SPN 3140 AS-LANG 3(3,0)

Business Spanish I: PR: SPN 2230 and SPN 2231 or equivalent. Basic business terminology, business culture, and business topics related to the Hispanic World.

SPN 3141 AS-LANG 3(3,0)

Business Spanish II: PR: C.I. Continuation of Business Spanish I.

SPN 3142 AS-LANG 3(3,0)

Business Spanish III: PR: C.I. Continuation of Business Spanish II.

SPN 3232 AS-LANG 3(3,0)

Advanced Directed Readings: PR: SPN 2230 or C.I. Use of Spanish literary and Spanish texts in general, to develop reading comprehension and analysis skills for non-native speakers.

SPN 3300 AS-LANG 3(3,0)

Advanced Spanish Grammar and Composition: PR: SPN 2231 or equivalent. Advanced Spanish grammatical topics, idiomatic expressions, and continued development of writing skills based on the newly acquired concepts.

SPN 3341 AS-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.

SPN 3343 AS-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.

SPN 3344 AS-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.

SPN 3345 AS-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.

SPN 3402 AS-LANG 3(3,0)

Practice in Modern Spanish Grammar: PR: SPN 2241 or 3420. This intensive Spanish course will provide the advanced student with practice and drill in modern Spanish using native texts.

SPN 3420 AS-LANG 3(3,0)

Spanish Composition: PR: SPN 2231 or equivalent. Development of skills in composition.
explore the universality of Spanish literature.

SPW 3100 AS-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.

SPW 3101 AS-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.

SPW 3230 AS-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.

SPW 3370 AS-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.

SPW 4720 AS-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.

SPW 4450 AS-LANG 3(3,0)
Spanish Literary Theory: PR: SPW 3100 and SPW 3101, or SPW 3130 or SPW 3131, or C.I. A study of textual criticism with emphasis in the theory of genre.

SPW 4460 AS-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.

SPW 4600 AS-LANG 3(3,0)
Cervantes: PR: SPW 3100 or C.I. Don Quixote.

SPW 4720 AS-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.

SPW 4470 AS-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.

SPW 4770 AS-LANG 3(3,0)
Caribbean Spanish Literature: PR: SPW 3101 or SPW 3131 or C.I. Analysis and discussion of representative contemporary works of authors who have included the black character as part of their narrative.

SSE 3312 ED-TLP 3(3,0)
Teaching Social Science in the Elementary School: PR: Admission to Phase II or C.I. Selected themes, problems, and concepts; organizing for instruction; techniques; evaluation procedures.

SSE 4361 ED-TLP 4(3,2)
Social Science Instructional Analysis: PR: EDG 4300 or C.I. Study of instructional programs in social sciences; objectives; materials; techniques; organization of instruction; evaluation procedures; current research for the middle grades and high school.

SSE 5115 ED-TLP 3(3,0)
Methods in Elementary School Social Science: PR: EDG 4323. Study of instructional programs in social sciences; objectives; materials; techniques; current research; and their application in elementary school setting.

SSE 5391 ED-TLP 3(3,0)
Problems in World Studies Education: PR: C.I. The examination of theories of World Studies Education along with insights into the practical dilemmas of world teaching.

STA 1060C AS-STAT 3(2,1)
Basic Statistics Using Microsoft Excel: Applications of Excel; manipulating data; single variable graphs and statistics; scatterplots; probability distributions; statistical applications.

STA 2014C AS-STAT 3(2,1)

STA 2023 AS-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.

STA 2023H AS-STAT 3(3,0)
Honors Statistical Methods I: PR: Honors Program Student; Calculus desired by not necessary. Same as STA 2023 with honors-level content.

STA 3032 ECS-IEMS 3(3,0)
Probability and Statistics for Engineers: PR: MAC 3212 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.

STA 3096 AS-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.

STA 4102 AS-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.

STA 4130 AS-STAT 3(3,0)
Life Contingencies I: PR: STA 4183 (or new number STA 4185). Economics of insurance, utility theory, single premium for insurance and annuities in both discrete and continuous cases. Net annual premium and net premium reserves.

STA 4131 AS-STAT 3(3,0)

STA 4163 AS-STAT 3(3,0)
Statistical Methods II: PR: STA 2023 or STA 3032. Not open to students with credit in STA 4165. Methods for analyzing data, statistical models, estimation, tests of hypotheses, regression and correlation, an introduction to analysis of variance, chi-square, and nonparametric methods.

STA 4164 AS-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.

STA 4165 AS-STAT 3(3,0)
Statistical Methods II with Computer Emphasis: PR: STA 2023 or STA 3032. Not open to students with credit in STA 4165. Methods for analyzing data, design of experiments, non parametric methods, categorical analysis, model building, covariance analysis, strong emphasis on use of a computer package.

STA 4173 AS-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.

STA 4183 AS-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.

STA 4187 AS-STAT 3(3,0)
Theory of Growth: PR: STA 4322. Graduation, moving weighted averages methods, Whittaker-
Henderson, Bayesian and parametric methods, smooth-junction formula, graduation of selected data.


STA 4321 AS-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.


STA 4502 AS-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.

STA 4504 AS-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.


STA 4664 AS-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.


STA 4685 AS-STAT 3(3,0)  Applied Time Series: PR: STA 4163. Forecasting methods, time series analysis, stationary and nonstationary time series, ARIMA models, forecasting processes.

STA 4939 AS-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.

STA 4942 AS-STAT 3(3,0)  Practicum in Actuarial Science: PR: STA 4183 or STA 5163. Discussion and presentation by actuarial practitioners.

STA 5103 AS-STAT 3(3,0)  Advanced Computer Processing of Statistical Data: PR: STA 4163 and knowledge of a programming language. Use of SAS and other statistical software packages; data manipulation; graphical data presentation; data analysis; creating analytical reports


STA 5175 AS-STAT 3(3,0)  Biometry: PR: STA 2023 or C.I. Design and analysis of experiments with emphasis on biological/ecological application; one-way and multi-way ANOVA; regression; ordination; classification.

STA 5176 AS-STAT 3(3,0)  Introduction to Biostatistics: PR: STA 4163 or STA 4173. Fixed-effects model, random-effects model, repeated measures design, logistic regression, survival analysis, Kaplan-Meier estimates, proportion-al hazards model.

STA 5185 AS-STAT 3(3,0)  Advanced Theory of Interest: PR: MAC 2312 and STA 2023. Measurement of interest, valuation of annuities, determination of yield rates on investments, fixed income securities, mortgages, etc.

STA 5205 AS-STAT 3(3,0)  Experimental Design: PR: STA 4164, STA 5206 or ESI 5219. Construction and analysis of designs for experimental investigations. Blocking, randomization, replication. Independent and factorial and fractional designs; design resolution.

STA 5206 AS-STAT 3(3,0)  Statistical Analysis: PR: STA 2023. Analysis of students who have completed STA 4164. Data analysis; statistical models; estimation; tests or hypotheses; analysis of variance, covariance, and multiple comparisons; regression and nonparametric methods.

STA 5505 AS-STAT 3(3,0)  Categorical Data Methods: PR: STA 4163 or STA 5206. Considers discrete probability distributions, contingency tables, measures of association, and advanced methods, including loglinear modeling, logistic regression, McNemar's Test, Mantel-Haenszel test.


STA 5703 AS-STAT 3(3,0)  Data Mining Methodology I: PR: STA 5103 and STA 5206. Data mining to uncover valuable information through SEMMA (Sample, Explore, Model, Modify, and Access). Process with neural network and decision tree.


STA 5940 AS-STAT 1(1,0)  Statistical Advice for Researchers: PR: 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.

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.

SYA 3110 AS-SOC/AN 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.

SYA 3120 AS-SOC/AN 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.

SYA 3300 AS-SOC/AN 4(3,2)  Research Methods: PR: SYG 2000 and SYA 3400 (may be taken concurrently). Emphasis on types of sociological data collections, sampling techniques, grant proposal development, critical evaluation of social research, and relationship between theory and social research.


SYA 4450 AS-SOC/AN 4(3,2)  Data Analysis: PR: SYA 3300 and SYA 3400. Advanced social research design and analytical skills. Emphasis on statistical data management, various modes of social data analysis, interpretation, integration, presentation, and report writing.


SYA 5625 AS-SOC/AN 3(3,0)  ProSeminar: 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.

SYA 5937 AS-SOC/AN 3(3,0)  Advanced Population: Examines the theories, methods, and information utilized by demographers and focuses on techniques of application of those skills.

SYD 3410 AS-SOC/AN 3(3,0)  Urban Sociology: PR: SYG 2000 or C.I. Historical roots of urbanization. Analysis and impact of community change on social organizations in modern industrial societies.

SYD 3700 AS-SOC/AN 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.

SYD 3750 AS-SOC/AN 3(3,0)  Contemporary Social Issues and North American Indians: PR: 2000 level social science or C.I. Examination of North American Indian sovereignty and current issues including economic development, education, freedom of religion, child welfare, federal/state/tribal relationships and environment.

SYD 3751 AS-SOC/AN 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.

SYD 3752 AS-SOC/AN 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.

SYO 3800 AS-SOC/AN 3(3,0)
Sex Roles in Modern Society: The traditional and changing roles of women and men viewed in a sociological perspective.

SYO 4020 AS-SOC/AN 3(3,0)
Population: Concerned with the study of human population, its distribution, composition, and change.

SYO 4510 AS-SOC/AN 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.

SYD 5795 AS-SOC/AN 3(3,0)
Class, Race, and Gender in American Society: PR: Graduate Status or C.I. Using theoretical and empirical studies, this course will provide a sociological examination of the intersections of race, class, and gender in American society.

SYG 2000 AS-SOC/AN 3(3,0)
General Sociology: Introduction to the sociological perspective and the scientific study of sociological concepts, theories, processes, and methods used in understanding contemporary human behavior in group interaction.

SYG 2000H AS-SOC/AN 3(3,0)
General Sociology: Extensive honors work in the field of Sociology. Expectations, requirements, and standards are greater than for standard General Sociology.

SYG 2010 AS-SOC/AN 3(3,0)
Social Problems: Analysis of major social problems such as mental disorders, sexual deviance, racial discrimination, poverty, community disorganization, and violence.

SYG 3949 AS-SOC/AN 0(0,8)
Cooperative Education in Sociology: PR: Departmental permission required before registering. Cooperative education experience in sociology. May be repeated. Graded S/U.

SYO 3000 AS-SOC/AN 3(3,0)
Modern Sociology: PR: SYG 2000 or C.I. An in-depth exploration of contemporary sociology. Introduction to conceptual analysis and methodological techniques, presentation and utilization of sociological literature on major social institutions.

SYO 3360 AS-SOC/AN 3(3,0)
Socialization 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.

SYO 3410 AS-SOC/AN 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.

SYO 3530 AS-SOC/AN 3(3,0)
Social Stratification: PR: SYG 2000 or C.I. Study of class, status, power, and cultural variations in stratification systems; patterns of mobility and change.

SYO 4100 AS-SOC/AN 3(3,0)

SYO 4200 AS-SOC/AN 3(3,0)
Sociology of Religion: PR: SYG 2000 or C.I. The relationship between the religious institution and social stratification, family, education, as well as issues pertaining to gender, race, ethnicity, and age.

SYO 4250 AS-SOC/AN 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.

SYO 4300 AS-SOC/AN 3(3,0)
Political Sociology: Sociological analysis of political and parapolitical groups; socioeconomic variable of voting behavior, power elites; societies and systems of government.

SYO 4400 AS-SOC/AN 3(3,0)
Medical Sociology: Analysis of patient beliefs and behavior, health practitioners, the social organization of hospitals and health services, contemporary problems in the delivery of health care.

SYP 3300 AS-SOC/AN 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.

SYP 3400 AS-SOC/AN 3(3,0)

SYP 3510 AS-SOC/AN 3(3,0)
Sociology of Deviant Behavior: PR: SYG 2000 or C.I. Sociological examination of the types of, and societal reactions to, deviant behavior with special emphasis on stigmatization.

SYP 3511 AS-SOC/AN 3(3,0)
Sociology of Murder: PR: SYG 2000, Junior standing, or C.I. An analytical study of murder in the U.S.; topics include different types of homicides, offenders, victims, and circumstances.

SYP 3520 AS-SOC/AN 3(3,0)
Criminology: 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.

SYP 3530 AS-SOC/AN 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.

SYP 3540 AS-SOC/AN 3(3,0)
Sociology of Law: The relationship between law and society, including the functions of law and its organization, social and economic consequences, jury selection, and modern trends.

SYP 3551 AS-SOC/AN 3(3,0)
Sociology of Alcoholism: Introduction to the nature of alcoholism and review of its impact on society.

SYP 3602 AS-SOC/AN 3(3,0)
Sociology of Popular Music: This course examines the role of popular music in the process of social change and in reflecting American culture. Consideration is given to the nature of the popular music business.

SYP 3630 AS-SOC/AN 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.

SYP 3650 AS-SOC/AN 3(3,0)
Sociology and Sport: 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.

SYP 4000 AS-SOC/AN 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.

SYP 4004 AS-SOC/AN 3(3,0)
Constructing Social Issues: PR: SYG 2000 or C.I. Sociological examination of social problems as an emergent process that involves collective definitions and legitimizing organizations. Topics include deviance, race, gender and popular culture.

SYP 4323 AS-SOC/AN 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.

SYP 4454 AS-SOC/AN 3(3,0)

SYP 4514 AS-SOC/AN 3(3,0)

SYP 4521 AS-SOC/AN 3(3,0)
Criminal Victimization in Society: PR: SYG 2000, Junior standing, or C.I. A study of crime victims in society; topics include issues related to victimology such as victimization risks and societal treatment of victims.

SYP 4536 AS-SOC/AN 3(3,0)
Gangs and Society: PR: SYG 2000, Junior Standing, or C.I. A study of gangs in the U.S.; topics include types of gangs, gang members, activities, group processes, and societal responses to gangs.

SYP 4550 AS-SOC/AN 3(3,0)

SYP 4730 AS-SOC/AN 3(3,0)
Sociology of Aging: Sociological aspects of aging in America.

SYP 4734 AS-SOC/AN 3(3,0)
Minority Aging: PR: SYG 2000 or SYD 3700 or SYD 4730 or C.I. A sociological examination of older populations within minorities: ethnic minorities, women, and gay men and lesbians.

SYP 4810 AS-SOC/AN 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).

SYP 4813 AS-SOC/AN 3(3,0)

SYP 5005 AS-SOC/AN 3(3,0)
Sociological Social Psychology: PR: regular graduate standing. An exploration of sociological social psychological theories and their application in understanding the effects of society and groups on the individual.

SYP 5526 AS-SOC/AN 3(3,0)
Sociological Criminology: PR: Graduate 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 in this area.
### UCF Courses and Descriptions

#### Research Projects

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYP 5562</td>
<td>AS-SOC/AN</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Seminar on Domestic Violence: Theory, Research and Social Policy</td>
<td></td>
</tr>
</tbody>
</table>

#### Seminar on Domestic Violence: Theory, Research and Social Policy

**Prerequisites:** Graduate status or C.I.  A sociological examination and evaluation of theories, empirical research and social policy related to the study of domestic violence.

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#### Seminar on the Welfare State & Aging

**Prerequisites:** Graduate standing or C.I. A sociological examination of old policies from a cross-cultural perspective.

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#### Theatre Production/Performance III

**Prerequisites:** Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors.

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#### Theatre Production/Performance II

**Prerequisites:** Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors.

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#### Theatre Production/Performance I

**Prerequisites:** Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors.

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#### Theatre Production I

**Prerequisites:** Junior standing and ACG 3101 with a grade of “C” or better or C.I. Concepts and methods of determining taxable income of individuals, and selected topics.

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#### Federal Income Tax I

**Prerequisites:** PR: Junior standing and ACG 3101 with a grade of “C” or better or C.I. Concepts and methods of determining taxable income of individuals, and selected topics.

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#### Theatre Production/Performance IV

**Prerequisites:** PR: THE 2020 or THE 2000. B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent.

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#### Theatre Production/Performance III

**Prerequisites:** PR: THE 2020 or THE 2000. B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent.

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#### Theatre Production/Performance II

**Prerequisites:** PR: THE 2020 or THE 2000. B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent.

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#### Theatre Production/Performance I

**Prerequisites:** PR: THE 2020 or THE 2000. B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent.

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#### Theatre Production

**Prerequisites:** PR: THE 2020 or THE 2000. B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent.

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#### Theatre Production Studies

**Prerequisites:** PR: THE 2020 or THE 2000. B.A. Theatre major or C.I. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent.

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#### Theatre History I

**Prerequisites:** PR: THE 2020 or THE 2000, and THE 3303 or TTP 3650. Theatre majors or departmental consent. The development of theatre arts from prehistory through the twentieth century.

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#### Theatre History II

**Prerequisites:** PR: THE 3110, THE 3305. Theatre major or departmental consent. Theatre arts from the seventeenth century to the present.

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#### Theatre Design Basics

**Prerequisites:** PR: THE 2000 or THE 2000. American musical theatre with emphasis on the great composers, lyricists, designers, and directors of the evolution of musical theatre.

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#### Musical Theatre Dance

**Prerequisites:** PR: Admission to the MFA Musical Theatre Program. A chronological and theoretical study of the major choreographers and choreographer/directors of musical theatre.

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#### Contemporary Theatre Practice

**Prerequisites:** PR: THE 3110 or THE 3305. Theatre major or departmental consent. Contemporary trends in plays and theatre production in the late 20th century.

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#### Theatre/Drama of Tennessee Williams, Miller, and Inge

**Prerequisites:** PR: Entrance into the Graduate Program. Study of Tennessee Williams, Arthur Miller, and William Inge from a literary, performance, and historical view, instilling in students a knowledge/appreciation of their plays.

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#### Research Methods in Theatre

**Prerequisites:** PR: MFA abd MA in Theatre. Practice knowledge, skills and techniques needed by students to conduct research to include organization, styles, footnotes, and bibliographic forms.

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#### Research Practicum I

**Prerequisites:** PR: Admission into the graduate program. A laboratory course designed to develop students’ practical working knowledge in Theatre.

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#### Research Practicum II

**Prerequisites:** PR: Admission into the graduate program. A laboratory course designed to develop students’ practical working knowledge in Theatre.

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#### Theatre Design Basics

**Prerequisites:** PR: THE 2020 or THE 2000. B.A. Theatre majors with emphasis on scenic, lighting, and costume design.

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#### Stagecraft II


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#### Stagecraft

**Prerequisites:** PR: THE 2020 or THE 2000. Restricted to B.F.A. Theatre majors. Continuation of TPA 2210. Production crew as required.

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#### Makeup Techniques

**Prerequisites:** PR: THE 2020 or THE 2000. B.F.A. major or departmental consent. Theory and practice of stage makeup.

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#### Technical Theatre Production


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#### Technical Theatre Production


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#### Technical Theatre Production


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#### Technical Theatre Production

**Prerequisites:** PR: Admission to the MFA Musical Theatre Program. A chronological and theoretical study of the major choreographers and choreographer/directors of musical theatre.

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#### Contemporary Theatre Practice

**Prerequisites:** PR: THE 3110 or THE 3305. Theatre major or departmental consent. Contemporary trends in plays and theatre production in the late 20th century.

---

#### Musical Theatre Dance

**Prerequisites:** PR: Admission to the MFA Musical Theatre Program. A chronological and theoretical study of the major choreographers and choreographer/directors of musical theatre.

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#### Completed Theatre majors or departmental consent. Contemporary trends in plays and theatre production in the late 20th century.
TPA 3040 AS-THEA 3(2,2)  
Costume Design: PR: TPA 3230, TPA 3044C and two semesters of art. Restricted to B.F.A. Theatre majors. Lecture/laboratory application of the fundamentals of design, color, theory, and figure drawing as they relate to costume design. Includes script/character analysis and project design work with an emphasis on visualization of design concepts and costume renderings. Required of all B.F.A. technical theatre/design majors.

TPA 3043C AS-THEA 3(3,1)  
Costume History I: PR: THE 3110, Theatre major or departmental consent. Costume Fashion from ancient Egypt to the mid 17th century, including basic period silhouette, costume parts and accessories.

TPA 3044C AS-THEA 3(3,1)  
Costume History II: PR: TPA 3043C, Restricted to Theatre majors or departmental consent. Costume Fashion from the mid 17th century to the present, including basic period silhouette, costume parts and accessories.

TPA 3060 AS-THEA 2(2,2)  
Scenic Design I: PR: TPA 2211, THE 3303 or TPF 3650, and one semester of art. Restricted to B.F.A. Theatre majors or B.A. Theatre majors with departmental consent. Lecture/laboratory application of the fundamentals of design, color, theory, drafting, perspective drawing, and rendering as they relate to scenic design. Required of all technical theatre/design majors.

TPA 3061 AS-THEA 3(2,2)  
Scene Design II: PR: TPA 3060. Restricted to B.F.A. technical theatre/design majors or Departmental consent. Continuation of TPA 3061. 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.

TPA 3077 AS-THEA 2(2,2)  
Scene Painting: PR: TPA 2211. Restricted to B.F.A. technical Theatre design majors or Departmental consent. Study of the art and craft of painting for the theatre. Research into period designs and execution of examples selected from a variety of styles. Required of all B.F.A. technical theatre/design majors.

TPA 3195 AS-THEA 3(3,30)  
Theatre Studio/Technical 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.

TPA 3197 AS-THEA 3(0,30)  
Summer Theatre Studio/Technical Design: PR: Departmental consent. Production assignments and responsibilities during the rehearsals/performances of playscripts produced on the UCF mainstage. May be repeated for credit.

TPA 3216C AS-THEA 3(3,4)  
Stagecraft III: PR: TPA 2211. BFA Design/tech or Stage Management major. A continuation of TPA 2211 with emphasis on special projects.

TPA 3221 AS-THEA 3(2,2)  
Lighting Design: PR: TPA 2220 and TPA 3650. Restricted to B.F.A. Theatre majors or B.A. Theatre majors with departmental consent. Continuation of Stage TPA 2220. Lecture/laboratory with emphasis on lighting design theory, style and individual lighting design projects. Required of all B.F.A. technical theatre/design majors.

TPA 3230 AS-THEA 3(2,2)  
Costume Construction: PR: TPA 2210 or TPA 2290. Restricted to B.F.A. Theatre majors or B.A. Theatre majors with departmental consent. 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.

TPA 3249 AS-THEA 2(2,2)  
Advanced Makeup Techniques: PR: TPA 2248C. Restricted to B.F.A. Theatre majors or departmental consent. Lecture/laboratory study of basic techniques needed for the creation of stage and film prosthetics and masks.

TPA 3250 AS-THEA 2(2,0)  
CADD for Theatre: PR: Restricted to B.F.A. Theatre majors or departmental consent. Projects oriented course covering fundamental material in computer aided drafting and design and its application for Theatre. Required of all technical theatre/design majors.

TPA 3251 AS-THEA 2(2,0)  
Advanced CADD for Theatre: PR: TPA 3250. Restricted to B.F.A. Theatre majors or Departmental consent. Continuation of TPA 3250 with special emphasis placed on 3-Dimensional aspects and applications of computer aided drafting and design for Theatre.

TPA 3260 AS-THEA 3(3,0)  

TPA 3401 AS-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.

TPA 3601 AS-THEA 3(3,0)  
Stage Management: PR: TPF 2110, TPF 3650, TPA 2210, TPA 2211. Restricted to Theatre majors or departmental consent. Examination of the importance, function, and responsibilities of the stage manager prior to, during and after performance. Introduction to the fundamentals of stage management as related to Departmental producers as well as professional union requirements. Required of all B.F.A. Stage Management majors.

TPA 4041C AS-THEA 3(2,2)  
Costume Design II: PR: TPA 3040. A continuation of Costume Design I. Costume Design including research, color, body types, and fabric to generate costume design sketches for theoretical play productions.

TPA 4293 AS-THEA 1(0,20)  

TPA 4294 AS-THEA 1(0,20)  
Theatre Production/Performance IV: PR: TPA 4293. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent

TPA 4295 AS-THEA 1(0,20)  
Theatre Production/Performance V: PR: TPA 4294. Participation in UCF Theatre productions. Required of all BA theatre majors. Not restricted to theatre majors, but requires departmental consent

TPA 4296 AS-THEA 1(0,20)  

TPA 4297 AS-THEA 1(0,20)  

TPA 4298 AS-THEA 1(0,20)  

TPA 4400 AS-THEA 3(3,0)  
Theatre Management: PR: TPA 2211, TPA 2290. Restricted to theatre majors or Departmental consent. Study of the development, organization, management, funding, and promotion of theatre programs. Additional emphasis placed on management theory and style.

TPA 4602 AS-THEA 2(3,0)  

TPA 4940 AS-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.

TPA 5042C AS-THEA 3(3,0)  
Costume Design Studio: PR: Admission into the graduate program & Costume History I & II. (no # assigned). Project oriented course in the advance study of Costume Design

TPA 5062C AS-THEA 3(2,2)  
Scene Design Studio: PR: Admission into graduate program. Advanced work in the conceptualization and communication of scenic designs for the theatre

TPA 5258C AS-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.

TPA 5299C AS-THEA 3(2,2)  
AutoCad-3D for Theatre: PR: Admission into the graduate program & AutoCad-2D for Theatre (no # assigned). Three-dimensional computer drafting and editing techniques applicable for theatre design.

TPA 5405 AS-THEA 3(3,0)  
Theatre Management for Non-Majors: PR: THE 2020 Theatre Survey or THE 2000 survey 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/perform-
ance as they relate to theatre organizations/institutions.

TPA 5949C AS-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

TPA 5949C AS-THEA 1(0,20)  
Design Practicum II: PR: Admission into the graduate program and Design Practicum I (no # assigned yet). Advanced work in the practical application of Properties and/or Design for the Theatre

TPP 1312C AS-THEA 3(2,15)  
Workshop Studio Theatre: PR: TPP 3172C, TPP 2191, TPP 3510C, TPA 3601, and a grade of "A" in TPP 4311. Restricted to theatre majors or departmental consent. Exploring the various aspects of running a one-act play, including play analysis, research, staging techniques, and other areas of directing for advanced directors. May be repeated for credit.


TPP 2185 AS-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.


TPP 2260 AS-FILM 3(3,0)  Acting for Film: PR: Film Majors. An introduction to acting for the camera.


TPP 3197 AS-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 scripts produced on the UCF mainstage. May be repeated for credit.

TPP 3223 AS-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.

TPP 3241 AS-THEA 3(3,0)  Survey of Musical Theatre I: PR: Theatre majors or departmental consent. TPP 3650, THE 2020 or THE 2000, THE 3110, TPP 3257. The origin and development of musical theatre up to and including the work of Frans Loesser.


TPP 3252 AS-THEA 3(3,0)  Musical Theatre Acting Performance II: PR: Theatre majors or departmental consent, TPP 3250, TPP 3257. Continuation of acting techniques for the performance of musical theatre repertoire. Covers Rogers and Hammerstein through Bock and Harnick.

TPP 3257 AS-THEA 2(2,2)  Musical Theatre Voice I: PR: TPP 2710C or CR: TPP 2710C. The vocal technique and repertoire knowledge necessary for a career on the musical theatre stage, emphasizing breath control, diction, tone production, the stage belt voice and proper resonance. May be repeated for credit.

TPP 3258 AS-THEA 2(2,2)  Musical Theatre Voice II: PR: TPP 3257. Provides theatre students with the vocal technique and knowledge of repertoire necessary for a career on the musical theatre stage. May be repeated for credit.

TPP 3310C AS-THEA 3(2,2)  Directing I: PR: THE 3111, THE 3306, Junior standing, Theatre major. Principles and techniques of play direction, the script selection, directional analysis, casting, composition/production, blocking, timing, and rehearsal planning.

TPP 3510C AS-THEA 2(2,1)  Movement for the Actor: PR: DAA 2200C, DAA 2201C, TPP 2110, TPP 2170C, BFA Performance Major. Active physical exploration of relaxation, release, and strengthening exercises designed to help the actor develop a more expressive body.


TPP 3650 AS-THEA 3(3,0)  Script Analysis: PR: Restricted to B.F.A. Theatre majors. Exploration of dramatic form and structure by learning to read, analyze, and understand playscripts for productions. The study of the playwrights as a blueprint for production. Required of all B.F.A. Theatre majors.


TPP 3952 AS-THEA 3(0,30)  Studio Acting: PR: Junior standing of C.I. Not restricted to Theatre majors but requires department consent. Studio performance provides the specific application of the theatre artist’s training to full scale theatre production. May be repeated for credit.


TPP 4221 AS-THEA 3(3,0)  Auditioning: PR: Sr. standing in BFA performance or musical theatre. Selecting monologues, auditioning techniques and cold readings.

TPP 4242 AS-THEA 3(3,0)  Survey of Musical Theatre II: PR: Theatre majors or departmental consent, TPP 3258, TPP 3241. A continuation of Survey of Musical Theatre I from Leonard Bernstein to current styles.

TPP 4253 AS-THEA 3(3,0)  Musical Theatre Acting Performance III: PR: Theatre majors or departmental consent. TPP 2525, TPP 3385. Advanced work in characterization and the audition process. Covers repertory from Bock and Harnick through current styles of musical theatre.

TPP 4254 AS-THEA 3(3,0)  Musical Theatre Acting Performance IV: PR: Theatre majors or departmental consent, TPP 4253. Continuation of advanced study for performance on the musical theatre stage. Emphasis placed on show preparation and the rehearsal process.

TPP 4255 AS-THEA 3(3,0)  Musical Theatre Cabaret: PR: Theatre majors or departmental consent, TPP 4254. Theatre cabaret is a training and rehearsal class for a Theatre department performing ensemble presenting full productions for community outreach performances.

TPP 4259C AS-THEA 3(2,2)  Musical Theatre Voice III: PR: Theatre majors or departmental consent, and TPP 3256. The diagnosis and development of the singing voice and its application to musical theatre performance.

TPP 4265C AS-THEA 3(3,2)  Acting VI - Acting for TV/Film: PR: TPP 4140C, TPP 4142C, TPP 4531C, TPP 3730C. Restricted to B.F.A. Theatre Performance majors. Lecture/laboratory study designed to expose the student to practical techniques of television and film acting. Extensive studio work.

UCF Courses and Descriptions

2003-2004 Undergraduate Catalog

350 UNIVERSITY OF CENTRAL FLORIDA
TPP 4268 AS-THEA 3(3,2)
Acting VII Advanced Acting For TV/Film: PR: TPP 4265C. A practical, detailed, and structured approach to acting for the camera while working on a TV/Film project.

TPP 4311 AS-THEA 3(2,2)

TPP 4531C AS-THEA 2(2,2)
Period Movement: PR: TPP 4142C or TPP 3250, TPP 3512C or DAA 2571C, B.F.A. Performance/Musical Theatre major. Continuation of Movement/ Dance work. Emphasis given to period movement styles and dance.

TPP 4923C AS-THEA 2(2,2)
Musical Theatre Voice: IV: PR: Theatre majors or departmental consent, TPP 4295C. Continuation of the diagnosis and development of the singing voice and its application to musical theatre performance.

TPP 4940 AS-THEA 6(0,40)
Theatre Performance Internship: PR: Restricted to B.F.A. Theatre performance majors. The internship is subject to Departmental approval. Off-campus internship programs provide opportunities for practical work in professional theatre. Contact the Departmental office for specific requirements. Required of all B.F.A. theatre performance majors.

TPP 5156C AS-THEA 3(2,2)
Acting Studio: PR: Admission to MFA Performance Program. An advanced study scene course with emphasis on scene analysis and character development and application of acting techniques in modern contemporary American plays.

TPP 5157C AS-THEA 3(2,2)
Acting Studio: II: PR: Grad Acting Studio I. An advanced study scene course applying acting methodologies to the works of modern (1950-) European playwrights with emphasis on the works of Ibsen/Chékhov/Shaw.

TPP 5273 AS-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.

TPP 5515 AS-THEA 2(2,0)
Movement Studio: I. PR: Admission to MFA Performance Program. Advanced level course in principles and methods of movement for the stage focusing on relaxation, centering, increased physical control, and physical development of a character.

TPP 5516C AS-THEA 2(2,1)
Movement Studio: II: PR: Grad Movement Studio 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.

TPP 5554 AS-THEA 2(2,0)
Musical Theatre Dance I: PR: MFA Musical Theatre Majors. Develop skills in ballet, jazz, tap and musical theatre dance related to performance, choreography and direction, emphasizing principles of alignment, coordination, isolation, and sequencing.

TPP 5715C AS-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.

TPP 5716C AS-THEA 2(2,1)
Stage Voice II: PR: Admission to the MFA Performance Program and Stage Voice I. Continuation of Graduate Voice Production I, studying Skinner’s narrow transcription with consonants, review of all Linklater work, and introduction to the work of Arthur Lessac.

TPP 5754 AS-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.

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.

TSL 4141 AS-LANG 3(3,0)

TSL 5143 AS-LANG 3(3,0)
ESOL Strategies: 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.

TSL 5245 AS-LANG 3(3,0)
Developing ESOL Language and Literacy: PR: Graduate Standing or C.I. Emphasis on research in CALL as well as the design and evaluation of software and websites for learning English as a Second Language.

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 teaching the ESOL.

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.

TSL 5940 AS-LANG 3(3,0)
Issues in TEFL: PR: CI. Address issues specifically related to TEFL, such as materials adaptation, teaching in multi-level classrooms, learning styles, cultural issues, and curriculum syllabus design.

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.

TTE 5204 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.

TTE 5790 ECS-CEE 3(3,0)
Railroad Engineering: PR: TTE 4004 and C.I. The major technical factors in location, construction, maintenance, and operation of railroad transportation systems.

TTE 5805 ECS-CEE 3(3,0)
Geometric Design of Transportation Systems: PR: TTE 4004. Study of geometric and construction design elements in the engineering of transportation systems.

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.

VIC 3001 AS-R/TV 3(3,0)
Visual Communication: A study of the visual system of man and the influences of the visual media on modern society.

WOH 2012 AS-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.

WOH 2012H AS-HIST 3(3,0)
World Civilization I - Honors: PR: Honors Program. The rise and decline of world civilizations from antiquity to the great civilizations of medieval times. Honors content.

WOH 2022 AS-HIST 3(3,0)
World Civilization II: PR: WOH 2012. World Civilization II: Rise of modern civilization from 1500 to the present, with an emphasis on the confrontation between the Western and non-Western spheres of civilization.

WOH 2022H AS-HIST 3(3,0)
World Civilization II - Honors: PR: Honors Program. Rise of modern civilization from 1500 to the present, with an emphasis on the confrontation between the Western and non-Western spheres of civilization. Honors content.

WST 3015 AS-WOM 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.

WST 3460 AS-WOM 3(3,0)
Womanist Studies: PR: ENC 1102 or C.I. Focus on various disciplines producing scholarship promoting a feminist of color perspective.

WST 4002 AS-WOM 1(1,0)
Researching Women and Gender: PR: WST 3015 or CI. Introduces students to scholarship in a variety of areas pertaining to the study of women and gender relations.

WST 5347 AS-WOM 3(3,0)
Research Seminar in Gender Studies: PR: graduate student or post baccalaureate status. Research seminar exploring relationships among feminist theorizing, research, and social change/the development of gender studies programs and their relationships to other academic disciplines.

WST 5601 AS-WOM 3(3,0)
Theories in Gender Studies: PR: Graduate standing or C.I. Introduction to foundational scholarship in gender studies. Emphasis on theoretical and interdisciplinary approaches to gender and sexuality in contemporary scholarship.

ZOO 3701C HPA-M&M 2(1,2)
Dissection Techniques: PR: ZOO 3733. A course designed to focus on select dissection techniques to aid students in the preparation of three-dimensional prosection material (specimens).

ZOO 3713C AS-COL 5(3,6)
Comparative Vertebrate Anatomy: PR: BSC 2010C and BSC 2011C. or C.I. The vertebrate animals, relationships of organs and systems, and their phylogenetic significance.
ZOO 3733C HPA-M&M 4(3,3)
Human Anatomy: PR: BSC 2010C or equivalent.
Structure of the human body.

ZOO 3736C HPA-M&M 4(3,2)
Exercise Physiology Anatomy: PR: BSC 2010C, C.I.
Gross anatomy for exercise physiology majors.

ZOO 4205C AS-BIOL 4(3,3)
Biology and Ecology of Metazoan Invertebrates: PR: BSC 2010C, BSC 2011C, PCB 3034 or C.I.
Anatomy, ecology, taxonomy, behavior, evolution, and parasitological relations of the radiates, bilateria, acelous, pseudocelous, schizocelous, and entero-celous invertebrates.

ZOO 4310C AS-BIOL 4(2,6)
Vertebrate Evolution & Ecology: PR: BSC 2010C, BSC 2011C, PCB 3034, PCB 3063 or C.I. Vertebrate evolution and ecology, based on the paleontological and ecological literature. The laboratory places heavy emphasis on classification/identification and field work.

ZOO 4513 AS-BIOL 3(3,0)
Animal Behavior: PR: PCB 3034. Study of the current ideas in animal behavior, including the mechanism of behavior and evolutionary explanations.

ZOO 4603C AS-BIOL 5(3,4)
Embryology/Development: PR: PCB 3063 and PCB 3023 or PCB 3523 or C.I. Concepts of developmental processes. Emphasis on mechanisms underlying vertebrate development.

ZOO 4744 HPA-M&M 3(3,0)
Neurobiology: PR: BSC 2010. Biological principles governing the physiology of the nervous system including electrical properties, chemical signaling, cellular composition, development, injury and regeneration.

ZOO 4753C HPA-M&M 4(3,3)
Vertebrate Histology: PR: ZOO 3733C. Microanatomical detail plus appropriate developmental and functional considerations of major cell types, primary tissues, organs, and organ systems. Survey of modern animal-tissue microtechnique.

ZOO 5456C AS-BIOL 4(2,6)
Ichthyology: PR: ZOO 4310C or C.I. Introduction to the biology of the fishes, their classification, evolution, and life histories.

ZOO 5463C AS-BIOL 4(2,6)
Herpetology: PR: 6 hours of zoology or C.I. Introduction to the biology of the amphibians and reptiles, their classification, evolution, and life histories.

ZOO 5475C AS-BIOL 4(2,6)
Ornithology: PR: 6 hours of zoology or C.I. Introduction to the biology of birds, their classification, evolution, and life histories.

ZOO 5486C AS-BIOL 4(2,6)
Mammalogy: PR: 6 hours of zoology or C.I. Introduction to the biology of mammals, their classification, evolution, and life histories.

ZOO 5517 AS-BIOL 1(1,0)
Methods for Studying Animal Behavior in Zoo Setting: PR: an animal behavior course or C.I. Research techniques used to study animals in captivity.

ZOO 5745C HPA-M&M 4(3,3)
Essentials of Neuroanatomy: PR: Human/Comparative Anatomy, or Human/Animal Physiology or C.I. Fundamental concepts of both morphological and functional organization of the nervous system. Primary emphasis on human structure.

ZOO 5815 AS-BIOL 4(4,0)
Zoogeography: PR: 8 hours of zoology or C.I. Principles and concepts concerning regional patterns of animal distributions of the world, both past and present.

ZOO 5881C AS-BIOL 4(3,4)
Fisheries Management: PR: ZOO 4310C or C.I. Fisheries management of freshwater environments to include identification, sampling methods, farming and hatchery operations, propagation and population estimates.

ZOO 5891 AS-BIOL 1(1,0)
Applied Conservation Biology: PR: C.I. Examination of issues surrounding care, maintenance and tracking animals in small populations.

ZOO 5893L AS-BIOL 1(1,0)
Reproductive Management in Zoological Environments: PR: PCB 4732 or C.I. Laboratory techniques used to improve reproductive success of animals in a zoological environment.
University Faculty and Administrative Officers

The date indicates the first year of employment at the University of Central Florida.


ABDEL-ATY, MOHAMED, Associate Professor of Engineering (1995), B.S.C.E., M.S.C.E., Ph.D., P.E. (Florida (University of California at Davis)

ABDEL ELMAHY, M., Associate Professor of Social Work and Coordinator, Public Affairs Doctoral Program (1978), A.B., M.S.W. Ph.D., (Case Western Reserve University)

ABNEY, BARBARA COMPTON, Assistant Director, Marketing/Communications (1997), BS in Journalism (University of Florida)

ABRAHAM, CHARLIE, Assistant 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.

ADAMS, CAROLE, (Cardiopulmonary Science) (1979), B.S., M.D.

ARMACOST, ROBERT L, (1997), B.S., M.F.A., Ph.D. (University of Arizona)

ALVAREZ, RODNEY

ALLEN, FRANK R

AHMAD, IBRAHIM A, B.A., M.A., Ph.D. (University of Wisconsin)

ADAMS, SEAN

AJAYI, RICHARD A

AKAY, RIEH, Assistant Professor of Finance (1996), B.Sc., M.B.A., Ph.D. (Temple University)

AL-DEEK, HAITHAM M, Associate Professor of Engineering (1992), B.C.E., M.S., Ph.D. (University of California at Berkeley)

ALBERS, JUNIE, Instructor of Education (2001), B.A., M.A. (University of Central Florida)

ALLEN, FRANK R, Associate Director for Administrative Services (1999), B.A., B.S., M.B.A., M.S.I. (University of Tennessee)

ALLEN, JEFFERY W, Associate Professor of Marketing (1990), B.S., B.A., M.B.A., D.B.A. (University of Kentucky)

ALLEN, KAY W, Associate Professor of Education (1990), B.S., M.Ed., Ph.D. (University of South Carolina)

ALLEN, WILLIAM, Lecturer of Computer Science (1996), B.S., M.S. (University of Central Florida)

ALMEDIA, JOHN A, Assistant Professor of Music (1997), B.M., M.A. (Appalachian State University)

AVILES, ROY, Associate Professor of History (1999), B.A., M.A., Ph.D. (University of California at Davis)

BARR, JON, Associate Professor of Political Science (1998), B.A., M.A., Ph.D. (Florida State University)

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, ISA E, Associate Dean and Professor of Engineering (1991), B.S., M.S., Ph.D. (University of Illinois at Chicago), P.E. (Florida)

BAUER, CHRISTIAN S, Professor of Education (1975), B.S.I.E., M.S.E., Ph.D. (University of Florida), P.E. (Florida)

BAUMBAUGH, DONNA J, Professor of Education (1978), B.S., M.S. Ed. (Indiana University)

BAUER, 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)

BECK, JOHN M, Professor of Psychology (2001), B.S., M.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 (2001), B.M., M.F.A. (San Diego State University)

BELL, KATHLEEN, Associate Professor of English (1991), B.S., Ed.D. (Arizona State University)

BENDIC, JENNIFER, Instructor of Health Services Administration (2001), M.S., M.S.A. (Central Michigan University)

BENTSON, JAYDA, Instructor of Political Science (1995), B.A. (Drake University)

BERMAN, EVAN M, Associate Professor of Public Administration (1995), B.S., M.A., Ph.D. (George Washington University)

BERMAN, STEVEN L, Associate Professor of Psychology (2001), B.S., M.A., Ph.D. (Florida International University)

BETTETTA, GERALD S, Instructor of Physical Therapy (1998), B.A., M.S. (San Francisco State University)

BESLEY, NANCY, Director of Florida Foundation for Future Scientists (2000), B.A., M. Ed. (University of Central Florida)

BETZ, MICHELLE, Lecturer in Communication (1999), B.A., M.J. (Carnegie Mellon University)

BHTHACHARYA, ANIKET, Assistant Professor of Physics (2000), Ph.D. (University of Maryland)

BIGGERSTAFF, JOHN, Professor of Pharmacology (1990), B.S.E., M.S.M.E., Ph.D. (Purdue University)

BHATTACHARYA, ANIKET, Assistant Professor of Pharmacology (2000), Ph.D. (University of Maryland)

BISHOP, PATRICIA J, Associate Professor of Education (1995), B.A., M.A. (University of Central Florida)

BLEY, TIMOTHY R, Professor of Education (1991), B.A., M.S., Ph.D. (University of Illinois)

BLAINES, MARIA, Associate Professor of Education (1997), B.A., M.S., Ed. Ph.D.

BLANEY, KATHY, Instructor of Medical Lab Science (1991), B.S., M.S. (Central Florida University)

BLOOM, BURTON I, Associate Professor of Psychology (1972), B.A., M.S., Ph.D. (Southern Illinois University)

BLEDGE, CAROL, Coordinator and Instructor of Communication (1970), B.A., M.A. (University of Oklahoma)

BLEDGE, ROBERT L, Professor of Political Science (1968), B.A., M.A., Ph.D. (University of Florida)

BLOCK, DAVID D, Professor of Mechanical Engineering (1970), B.S.I.E., M.S.E., Ph.D. (University of Florida)


BLOCK, JUDY, Assistant Professor of Finance (2002), B.A., M.S.Ed., Ed.D. (University of Central Florida)

BLOBOSOFF, GABRIEL, Professor of Behavioral Science and Human Performance (1990), B.A., M.A. (University of California, Santa Barbara)

BLOOM, BURTON I, Associate Professor of Psychology (1972), B.A., M.S., Ph.D. (Southern Illinois University)

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B.S.B.A., MBA, Ph.D. (Purdue University)
BLUM, RICHARD A., Professor of Motion Picture Technology (1993), B.A., M.S., Ph.D. (University of Southern California)
BOBEK, DONNA D., Assistant Professor of Accounting (1997), B.B.A., Ph.D. (University of Florida)
BOGUMIL, WALTER A., JR, Associate Professor of Management (1972), B.S.B.A., Ph.D. (University of Georgia)
BOHM, ROBERT M., Professor of Criminal Justice (1975), A.B., M.A., Ph.D. (Florida State University)
BOLEMON, JAY S., Associate Professor of Physics (1968), B.S., Ph.D. (University of South Carolina)
BOLONI, LANDISLAU, Assistant Professor of Engineering (2002), B.S., M.S., Ph.D (Purdue University)
BOLYARD, WENDY L., Coordinator, Office of Recruiting, (1998) B.S., M.A. (West Virginia University)
BONTA, LINDA B., University Controller (1968), B.S.B.A., M.A. (University of Central Florida)
BOOTE, DAVID N., Assistant Professor of Education (2000), B.Ed., B.S.I., M.A. Ph.D. (Simon Fraser University, British Columbia, Canada)
BORDE, CLINTON E., Associate Professor of Finance (1994), B.P.S., M.B.A., Ph.D. (Florida Atlantic University)
BOREMAN, GLENN D., Assistant Professor of Accounting (1984), B.S., M.S., Ph.D. (University of Arizona), P.E. (Florida)
BORDEN, RICHARD A., Instructor of Marketing (2003), B.S., M.S., (Ohio University)
BOSE, SUBIR K., Professor of Physics (1967), B.S., M.C., Ph.D. (University of Allahabad)
BOWDON, MELODY A., Assistant Professor of English (1999), B.A., M.A., Ph.D. (University of Arizona)
BOWERS, CLINT, Assistant Dean, College of Arts & Sciences, and Associate Professor of Psychology (1994), B.S., M.A., Ph.D. (University of South Florida)
BOYD, BELINDA, Associate Professor of Theatre (1988), B.S., M.F.A. (San Diego State University)
BOYTE, JUDITH P., Director, Office of Academic Support and Inflation Services (1984), B.A., M.P.A. (University of Central Florida)
BOZEMAN, WILLIAM C., Professor of Education (1985), B.A., M.Ed., Ph.D. (University of Wisconsin)
BRADFORD, RALPH E., Instructor of Political Science (1998), B.A., M.A. (University of Central Florida)
BRAIN, PRISCILLA V., Instructor of English (1984), B.A., M.A. (University of Central Florida)
BRANCH, WILLIAM, Director, Computer Services and Telecommunications (1970), B.S., M.S. (Florida Institute of Technology)
BRAUNSTEIN, GABRIEL, Associate Professor of Computer Science (1970), B.A., M.S., Ph.D. (New York University)
BREIT, DEBORAH, CFHLA, Professor of Convention and Conference Management and Associate Professor of Hospitality Management (2001), B.A., M.P.S., Ph.D. (University of South Carolina)
BRENNAN, JOHN J., Professor of Physics (1968), B.S., M.S., Ph.D. (Georgia Institute of Technology)
BRENNER, THOMAS W., Associate Professor of Education (1996), B.A., M.A., Ph.D. (Florida State University)
BRICE, ALEJANDRO, Associate Professor of Communicative Disorders (1997), B.A., M.A., Ph.D. (University of Central Florida)
BRIDGES, THERESA, Assistant Professor of Communication (2000), B.A., M.A. (Norfolk State University)
BRIGHAM, ROBERT C., Professor of Mathematics and Computer Science (1970), B.S., M.S., Ph.D. (New York University)
BRODIE, LYMAN A., Associate Dean, College of Arts & Sciences and Professor of Music (1990), B.A., M.M. (University of North Texas)
BROKAW, RENEW, Visiting Instructor of Communication (1990), B.S.B.A., M.A. (University of Central Florida)
BROPHY, THEOMAS C., Associate Professor of Psychology (1969), B.A., Ph.D. (Vanderbilt University)
BROTHEN, MARK W., Associate Professor of Theatre (1996), B.F.A., M.F.A. (Pennsylvania State University)
BROWN, EMMA J., Charles Endowed Professor of Nursing (1999), Ph.D., R.N., C.S. (University of Florida)
BROWN, JAMES C., Assistant Professor of Theatre (2001), B.F.A., M.F.A. (San Diego State University)
BROWN, VICTOR, Associate Ombuds Officer (1990), B.A. (University of Cereal Florida)
BROWNE-KRIMSLER, VALERIE A., Associate Professor of Nursing, Brevard Campus (1994), M.A., Ed.D. (Florida International University)
BROWNLAW, ROBERT, Visiting Instructor of Music (2001), B.M., M.A., Ph.D. (Nova)
BRUMBAUGH, DOUGLAS K., Professor of Education (1969), B.S., M.Ed. Ed.D. (University of Georgia)
BURGHARD, DOLORES, Director, UCF Creative School for Children, Educational Research Center for Child Development (1976), B.A, M.Ed. (University of Central Florida)
BURROUGHS, WAYNE A., Professor of Psychology (1969), B.A., M.A., Ph.D. (University of Tennessee)
BUSHY, ANGELINE A., Bert Fish Eminent Chair of Professor of Nursing (1995), B.S.N., M.Ed., M.N., Ph.D. (University of Texas at Austin)
BUTCHER, LONNY J., Visiting Instructor of Management (2001), B.S., M.A. (Louisiana State University - Baton Rouge)
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BYERS, JACQUELINE, Associate Professor of Nursing (1996), B.S.N., M.S.N., Ph.D. (University of Florida)
BYRD, ANTHONY K., Chair and Associate Professor of Finance (1993), B.S., M.B.A., Ph.D. (University of South Carolina)
CALLAHAN, JUDITH S., Assistant Professor of Management (2001), B.A., M.B.A., Ph.D. (University of Maryland - College Park)
CALLARMA, WILLIAM G., Associate Professor of Management (1972), B.B.A., M.B.A., Ph.D. (Arizona State University)
CAMP, DONNA J., Associate Professor of Education (1989), B.A., M.Ed. Ph.D. (University of Oklahoma)
CAMPBELL, JAMES, Professor of English (1996), B.A., M.A., Ph.D. (University of Notre Dame)
CANNON, JOHN R., Professor of Mathematics (1993), B.A., M.P., Ph.D. (University of California, Berkeley)
CARDARELLI, DIANE, Instructor of Music (2000), M.A. (University of Central Florida)
CARON, RICHARD M., Associate Professor of Mathematics (1972), B.A., Ph.D. (Louisiana State University)
CASADO, MONTSE, Assistant Professor of Education (2000), B.A., M.A. Ed.S., Ph.D. (University of South Carolina)
CASMIR-PAZ, LYNN A., Assistant Professor of English (1997), B.A., M.A., Ph.D. (University of Pittsburgh)
CASSIDY, DAVID, Intern Program Director of Athletic Training (1965), B.S., CSSC, M.Ed. ATCL (Auburn University)
CERQUA-RICHARDSON, KATHLEEN A., Professor of English (2001), B.A., M.A., Ph.D. (University of South Carolina)
CHOI, KARL X, Professor of Physics (1996), B.S., B.A., M.S., PhD (MIT)
CHOI, BRUCE, Assistant Professor of Mathematics (1996), B.S., M.U., Ph.D. (University of Michigan)
CHOW, KEVIN, Assistant Professor of Computer Science (2002), B.S., M.S., Ph.D (MIT)
CHOW, RANDELL, Assistant Professor of Education (2002), B.S., M.A., Ed.D. (Nova Southeastern University)
COLBY, PETER W., Professor of Public Administration (1985), B.A., Ph.D. (Brandeis University)

COLDING, LINDA K., Assistant University Librarian (1999), B.A., M.A., M.S.L.S. (Catholic University of America)

COLE, W. SCOTT, General Counsel (2002), B.S., J.D. (University of Florida)

COLLEY, CLIFFORD, Captain, USAF, Assistant Professor of Aerospace Studies (2000), B.S., M.S. (Troy State University)

CONDY, STEVEN J., Assistant Professor of Education (1999), B.A., M.Ed., Ph.D. (University of Southern California)

CONDON, KRISTIN G., Professor of Art and Humanities (1989), B.A., M.S., Ph.D. (University of Oregon)


CONNELL, PATRICIA, Instructor of Nursing (Brevard) (1999), M.S., B.S.N., R.N. (University of Florida)

CONNWAY, TED, Associate Professor of Engineering (1999), B.S., M.S., Ph.D. (Illinois at Urbana-Champaign)

COOK, IDA J., Associate Professor of Sociology (1976), B.A., M.S., Ph.D. (North Carolina State University)

COOK, KATHY S., Assistant Chair and Coordinator of Legal Studies (1985), B.A., J.D. (University of Florida)

COOPER, C. DAVID, Professor of Education (1980), B.S., M.S., Ph.D. (Clemson University), P.E. (Florida, Texas)

COWAR, ROSIDA, Assistant Chair and Associate Professor of Engineering Technology (1992), Dipl. Engr., M.S.E.E. (University of Massachusetts; Dartmouth)

CORNETT, JEFFREY W., Chair and Professor of Education (1989), B.S., M.Ed., Ph.D. (Ohio State University)

CORNETT, VICKI, Instructor of Education (1987), B.S., M.Ed. (University of Toledo)

CORREA, EDA M., Assistant University Librarian (1999), B.A., M.L.S. (University of Puerto Rico)

CORZINE, JAY, Associate Professor of Management (2000), B.A., M.B.A., Ph.D. (University of Florida)

CROES, ROBERTICO, Associate Professor of Humanities (2001), B.A., M.A., M.Phil, Ph.D (Syracuse University)


DANIEL, HENRY, Professor of Molecular Biology and Microbiology (1988), B.S., M.S., Ph.D. (Madurai-Kamaraj University)


DAS, SAMAR, Assistant Professor of Marketing (1999), B.S., M.B.A., Ph.D. (University of Arizona)

DAVIDSON, ADENIKE M., Assistant Professor of English (2000), B.A., M.A., Ph.D. (University of Maryland)

DAVIDSON, ZYNULINE, Assistant Professor of Economics (1998), B.A., M.B.A., D.B.A. (University of Kentucky)

DAVIS, LAUREL, Assistant Professor of Communication (1997), B.A., M.A., Ph.D. (Ohio State University)

DECKER, BERNARD, Associate Professor of Foreign Languages and Literatures (1989), B.A., M.A., Ph.D. (Cornell University)

DEES, DAVID R., Assistant Dean, Enrollment and Academic Services, and Associate Professor of Sociology (1972), B.A., M.A., Ph.D. (University of Notre Dame)

DEETS, JENNIFER L., Assistant Professor of Education (1998), B.A., M.A., Ph.D. (University of Texas at Austin)

DEGEORGE, LAURYN, Professor of Management (1998), B.S., M.B.A. (University of Wales at Aberystwyth)

DELFYETT, PEYTON, Associate Professor of Psychology (1993), B.E., M.S., Ph.D. (City University of NY)

DELORME, DENISE E, Associate Professor of Management (1996), B.S., M.Ed., Ph.D. (University of Western Michigan)

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DENVILLE, ROY, Professor of Communication (1993), B.E., M.S., Ph.D. (University of Georgia)

DEMARA, RONALD F., Associate Professor of Engineering (1977), B.S., M.B.A., Ph.D. (University of Georgia)

DEPAULIS, ROBERT, Assistant Professor of English (1993), B.S., M.S., Ph.D. (University of Southern California), P.E. (California)

DENNING, RICHARD G., Chair and Professor of Engineering Technology (1976), B.M.E., M.S., Ed.D. (University of Georgia), P.E. (Florida)

DENNIS, KAREN, Professor of Management (2000), F.A.A.A.N., R.N., Ph.D. (University of Maryland)

DEO, NARSINGH, Professor of Computer Science; Holder of the Charles N. Millican Chair in Computer Science (1988), B.S., M.S., Ph.D. (Northwestern University)

DESALI, VIMAL H., Professor of Engineering (1994), B.S., M.S., Ph.D. (Johns Hopkins University), P.E. (Florida)

DESARIJU, RAMARAO, Associate Professor of Marketing (1999), B.Tech., Ph.D. (Dhirubhai Ambani Institute of Engineering and Technology, India)

DIBERNARDO, RALPH R., Assistant Professor of Humanities (2001), B.A., M.A., M.PHIL, Ph.D (Syracuse University)

DICKIE, MARK T., Professor of Economics (2001), B.A., Ph.D. (University of Western Michigan)

DIXON, DUNCAN, Assistant Professor of Hospitality Management (2001), B.A., M.P.S. (Cornell University)

DIETZ, JOHN D., Professor of History (1972), B.A., M.A., Ph.D. (Johns Hopkins University), P.E. (Florida)

DIETZ, JAMES A., Assistant Vice President and Director of Student Development and Enrollment Services (1990), B.A., M.P.A., Ed.D. (University of Central Florida)

ELIAS, LUIS R., Professor of Optics (1988), B.A., M.S.,
FLAMMIA, MADELYN, Associate Professor of English (1990), B.A., M.A., Ph.D. (Rutgers University)
FOLSE, KEITH, S, Assistant Professor of Foreign Languages and Literatures (2000), B.A., M.A., Ph.D. (University of South Florida)
FOOKES, BARRY G, Professor of Chemistrty Forensic Sciences (1997), B.S., Ph.D. (Brunel)
FOOROOSH, HAMID, Assistant Professor of Computer Science (2002), B.S., M.S., PhD (Institute National dela Recherche)
FORD, CAMERON, Associate Professor of Management (1997), B.S., Ph.D. (Pennsylvania State University)
FORD, INEZ, Associate Director for Multicultural Academic & Support Services (1961), B.A. (University of Central Florida)
FORTIER, VANESSA, Director, University Budget Office (1998), B.S.B.A., M.B.A. (University of Central Florida)
FOTTLER, MYRON D, Professor and Program Director of Health Services Administration Program (1999), B.S., M.B.A., Ph.D. (Columbia University)
FRANCIS, MADISON K, Chair and Professor of Art, and Director of Flying Horse Editions (1996), B.F.A (Cleveland Institute of Art)
FREDERICK, TERRY J, Associate Dean, College of Arts & Sciences, Professor of Digital Media, and Distinguished Service Professor of Computer Science (1975), B.S., M.S., Ph.D. (University of Wisconsin)
FRIEND, CRAIG R, Professor of History and Editor, Florida Historical Quarterly (1999), B.A., M.A., Ph.D. (University of Kentucky)
FRITZSCH, BARBARA, Assistant Professor of Psychology (1996), B.S., M.A., Ph.D. (University of South Florida)
FRYE, MELISSA, Assistant Professor of Finance (1999), B.S., Ph.D. (Georgia Institute of Technology)
FULLER, DONALD, Associate Professor of Education (2002), B.A., M.Ed., Ph.D. (Southern University)
FULLER, DONALD A, Associate Professor of Marketing (1972), BSIM, M.B.A., Ph.D. (Georgia State University)
GAMES, JAY, Professor of Marketing (1996), B.S., B. Tech., M.B.A., Ph.D. (University of Houston)
GARCIA, NORA LEE, Assistant Professor of Music (1996), B.M., M.M., D.M.A. (University of Miami)
GARCIA, STEPHANIE MAYFIELD, Visiting Instructor of Marketing (2001), B.A., M.S. (Florida International University)
GARDNER, JERRY Y, Associate Professor of Music (1980), B.M., M.M. (Boston University)
GAUDELL, WILLIAM, Assistant Professor of Education (2000), B.A., Ed.D. (Rutgers University)
GAUDUKE, WAYNE, Professor of Art (1970), M.A., Ph.D. (New York University)
GAUSE, JR., J. RICHARD, Associate University Librarian (1998), B.S., M.B.A., M.L.S. (Florida State University)
GAY, DAVID, Associate Professor of Sociology (1989), B.A., M.A., Ph.D. (Duke University)
GEBELT, TAMARA L, Assistant Professor of Theatre (2001), B.F.A., M.F.A. (Texas Tech University)
GIEGER, CHERIE L, Associate Professor of Chemistry (1996), B.S., Ph.D. (University of South Florida)
GELENBE, DENIZ A, Visiting Associate Professor of Music (1990), B.M., M.M. (Quilliam School of Music)
GELENBE, EROL, Associate Dean of Engineering & CS, Director of the School of ECECS, and Professor of Electrical Engineering and Computer Science (1998), Ph.D (Polytechnic University), D.Sc. (University of Paris)
GENNARO, ROBERT N., Associate Professor of Art (1983), B.F.A., M.F.A. (University of Miami)
GERGLEY, GERALD R, Associate Professor of Education (1970), Ed.B., Ed.D. (State University of New York)
GERKING, SHELBY, Professor of Economics (2001), B.A., M.B.A., M.A., Ph.D. (Indiana University)
GERSTEIN, MARK, Assistant Professor of Motion Picture Technology (1986), B.A. (University of Chicago)
GIANNANDRE, DAVID, Assistant Professor of Foreign Languages and Literatures (2000), B.A., M.A. (University of Central Florida)
GIANNUZZI, LUCILLE A, Associate Professor of Engineering (1994), B.E., M.S., Ph.D. (Pennsylvania State University)
GIBBS, W, ERNEST, Associate Professor of Economics (1965), B.A., M.B.A., M.A. (Florida State University)
GICHIA, JANINE, Assistant Professor of Nursing (1994), R.N.C.N.M., Ph.D. (University of Florida)
GILKESON, JAMES H, Associate Professor of Engineering (1991), B.S., M.S., M.P.H. (Duke University)
GILSON, RICHARD, Professor of Psychology (1985), B.S., M.S., Ph.D. (Princeton University)
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GONZALEZ, FERNANDO, Assistant Professor of Engineering (1998), B.S., Ph.D. (University of Illinois, Urbana) GONZALEZ, LYNNE, Director, Academic Affairs Administration (1993), B.A., M.A. (University of Central Florida)
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MORSCH, J. MICHAEL, Professor of Computer Science (1984), B.S., Ph.D. (Ohio State University)

MOSLEY, FAISAL A., Professor of Engineering (1980), B.S., M.S., Ph.D. (University of South Carolina), P.E. (Florida)

MOTLAGH, BAHMAN S., Assistant Professor of Engineering Technology (1998), B.S., M.S., Ph.D. (University of Central Florida)

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MOULOUI, MUSTAPHA, Associate Professor of Psychology (1994), M.A., Ph.D. (Catholic University of America)

MUKHERJEE, AMAR, Professor of Computer Science (1979), B.S., M.S., Ph.D. (University of Calcutta)

MULLENS, MICHAEL A., Associate Professor of Engineering (1989), B.S., M.S., Ph.D. (Georgia Tech)

MULLER, GREG, Chair and Director of the UCF Technology Incubator (1991), B.A., B.S., M.E., Ph.D. (Virginia Polytechnic Institute and State University)

MULLIN, THOMAS A., Associate Professor of Communicative Disorders (1972), B.A., M.S., Ph.D. (Syracuse University)

MUMFORD, VIOLET, Visiting Assistant Professor of Education (2000), Ed.D. (University of Delaware)

MUNDALE, JENNIFER, Assistant Professor of Philosophy (1999), B.A., M.A., Ph.D. (Washington University)

MURATORI, JOANNE, Associate Director, Student Records and Services, (1991), B.A., M.A., (Columbia University)

MURPHY, KEVIN MAJ., Assistant Professor of Military Science B.S. (Florida Institute of Technology)

MURPHY, PATRICK, Chair and Professor of English (2002), B.A., M.A., Ph.D. (University of California, Davis)

MURRAY, BARBARA A., Associate Professor of Education (1992), B.A., M.A.E., Ed.S., Ph.D. (Indiana State University)

MURRAY, KENNETH T., Associate Professor of Education (1991), B.A., M.S., Ph.D. (University of California)

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NYE, CHAD, Assistant Professor of Communication (1999), B.A., M.A., Ph.D. (Georgia State University)

O'KEEFE, TIMOTHY, Professor of Communication (1968), B.A., M.A., Ph.D. (University of North Carolina)

ODISHO, EDWIN, Instructor of Management Information Systems (1980), B.B.A., M.S. (Florida State University)

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OLOUFA, AMR A., Associate Professor of Philosophy (1999), B.A., M.A., Ph.D. (University of California, Berkeley), P.E. (California)

OMANS, STUART E., Professor of English (1968), B.A., M.A., Ph.D. (Northwestern University)

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ONYEMULUKWE, OKEY, Associate Professor of Engineering (1993), B.A., M.S., Ph.D. (University of Pittsburgh), P.E. (Florida)

ORO, GLENN, Interim Director of Constituent Relations (1995), B.A. (University of Central Florida)

ORROJI, ALLI, Associate Professor of Computer Science (1986), B.A., M.S., Ph.D. (Ohio State University)


OSBORN, JOHN A., Professor of Biology (1972), B.S., M.S., Ph.D. (Kansas State University)

OSBORN, KING W., Professor of Engineering Technology (1983), B.S.E., M.S.E.E., Ed.D. (Florida Atlantic University), P.E. (Florida)

OUSLEY, DENISE, Assistant Professor of Education (2002), B.A., M.A., Ph.D. (University of Kentucky)

O'NEIL, MICHAEL, Visiting Instructor of Education (1999), B.A., M.Ed., Ed.S. (Florida State University)

PALMER, MARY J., Professor of Music Education (1970), B.S., M.S., Ed.D. (University of Illinois)

PAOLINE, EUGENE A., Assistant Professor of Criminal Justice (2001), B.S., M.A., M.S., Ph.D. (SUNY at Albany)

PARADIS, JEFFREY, Assistant Professor of Chemistry (1999), B.A., M.A., Ph.D. (North Carolina State University)


PARK, HOON, Associate Professor of Finance (1988), B.A., M.B.A., Ph.D. (Georgia State University)

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PARKER, MELANIE, Director for Career Resource Development (2003-2004 Undergraduate Catalog)
HONORARY DEGREES AWARDED

<table>
<thead>
<tr>
<th>Date</th>
<th>Name</th>
<th>Degree Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>December, 1981</td>
<td>Thecla Vivian Jackson Duffley, Doctor of Humanities</td>
<td>May, 1992</td>
</tr>
<tr>
<td>April, 1982</td>
<td>Howard Phillips, Doctor of Public Service</td>
<td>May, 1992</td>
</tr>
<tr>
<td>April, 1982</td>
<td>Robert J. Whalen, Doctor of Engineering Science</td>
<td>May, 1995</td>
</tr>
<tr>
<td>May, 1982</td>
<td>Ferdinand Duda, Doctor of Agricultural Service</td>
<td>May, 1996</td>
</tr>
<tr>
<td>July, 1982</td>
<td>Mary Jo Davis, Doctor of Public Service</td>
<td>May, 1997</td>
</tr>
<tr>
<td>December, 1984</td>
<td>Charles Wadsworth, Doctor of Public Service</td>
<td>December, 1999</td>
</tr>
<tr>
<td>May, 1985</td>
<td>George J. Becker, Jr., Doctor of Public Service</td>
<td>May, 2000</td>
</tr>
<tr>
<td>October, 1988</td>
<td>Elle Wiesel, Doctor of Letters</td>
<td>October, 2002</td>
</tr>
<tr>
<td>December, 1988</td>
<td>Sven Caspersen, Doctor of Engineering Science</td>
<td>October, 2002</td>
</tr>
<tr>
<td>Index</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------------------------------------------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Institute for Simulation and Training (IST)</td>
<td>66</td>
<td></td>
</tr>
<tr>
<td>Institute and Centers for Research</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>Institute of Statistics and Data Mining</td>
<td>67</td>
<td></td>
</tr>
<tr>
<td>Institute of Social Science</td>
<td>69</td>
<td></td>
</tr>
<tr>
<td>Instructional Resources</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>International Applicants, Admission of</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>International Baccalaureate Programs</td>
<td>60, 81</td>
<td></td>
</tr>
<tr>
<td>International Business Tracks</td>
<td>82</td>
<td></td>
</tr>
<tr>
<td>International Student and Scholar Services</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>International Studies and Programs</td>
<td>64</td>
<td></td>
</tr>
<tr>
<td>Intramural Sports</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Judaic Studies Program</td>
<td>74</td>
<td></td>
</tr>
<tr>
<td>Junior Classification</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Late Payment Fee</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>Late Registration Fee</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>Late American Area Studies</td>
<td>4</td>
<td></td>
</tr>
<tr>
<td>LEAD Scholars Program</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Liberal Studies Program</td>
<td>74</td>
<td></td>
</tr>
<tr>
<td>Libraries, University</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Life Sciences</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td>Biology, Department of</td>
<td>96</td>
<td></td>
</tr>
<tr>
<td>Molecular Biology, Department of</td>
<td>96</td>
<td></td>
</tr>
<tr>
<td>Microbiology, Department of</td>
<td>96</td>
<td></td>
</tr>
<tr>
<td>Limited Access Programs</td>
<td>29</td>
<td></td>
</tr>
<tr>
<td>LINC Program</td>
<td>71</td>
<td></td>
</tr>
<tr>
<td>Loans</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>Magna Cum Laude</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Major, Academic</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Changing</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>Declaring</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>Index</td>
<td>68, 228</td>
<td></td>
</tr>
<tr>
<td>Mission Statement, UCF</td>
<td>14</td>
<td></td>
</tr>
<tr>
<td>Molecular Biology and Microbiology Department (See Life Sciences)</td>
<td>96</td>
<td></td>
</tr>
<tr>
<td>Multicultural Academic and Support Services (MASS)</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>Multilingual-Multicultural Studies, Center for</td>
<td>64</td>
<td></td>
</tr>
<tr>
<td>Music Department</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td>Name Changes</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>National Consortium for Academics and Sports</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>No Credit (NC) Grade</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>No Credit/Acceptance Clearances</td>
<td>59</td>
<td></td>
</tr>
<tr>
<td>Non-Degree-Seeking Students</td>
<td>31, 55</td>
<td></td>
</tr>
<tr>
<td>Nursing, School of</td>
<td>97</td>
<td></td>
</tr>
<tr>
<td>OASIS - College of Arts &amp; Sciences</td>
<td>70</td>
<td></td>
</tr>
<tr>
<td>Off-Campus College Credit Program</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>Off-Campus Student Resource Center</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Ombuds Office, University</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Orientation</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Orientation Center</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Overawards</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Past Due Accounts</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>Payment, Fees</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>Acceptable Forms of</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>Procedures</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>Philosophy Department</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td>Physics Department</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td>Police, Public Safety and</td>
<td>18</td>
<td></td>
</tr>
<tr>
<td>Political Science Department</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td>Post-Baccalaureate</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Pre-Health Professions Advising</td>
<td>43</td>
<td></td>
</tr>
<tr>
<td>President's Honor Roll</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Probation, Academic</td>
<td>56</td>
<td></td>
</tr>
<tr>
<td>Provisional Student</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Psychology Department</td>
<td>75</td>
<td></td>
</tr>
<tr>
<td>Public Administration Department</td>
<td>97</td>
<td></td>
</tr>
<tr>
<td>Radiologic Science Department</td>
<td>96</td>
<td></td>
</tr>
<tr>
<td>Reactivation of Application</td>
<td>29</td>
<td></td>
</tr>
<tr>
<td>Readmission</td>
<td>56</td>
<td></td>
</tr>
<tr>
<td>Recreation and Wellness Center</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Records, Student</td>
<td>59</td>
<td></td>
</tr>
<tr>
<td>Refund of Fees</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>Registrar's Office</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>Registration Policies</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>Add/Drop Policy</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>Audit</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>Credit Hour Limits</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>Enrollment Classifications</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>Holds</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>Non SUS Institution Transients</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>Senior Citizen</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>State Florida Employee</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>State Tuition Exempt (STEP)</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>State University System Florida Transients</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>UCF Employee</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>Terms and Credit Hours</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>Withdrawal Policy</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>Regulations and Procedures, Academic</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>Religious Observances</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>Repayment of Federal Aid</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>Research, Institutes and Centers</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>Research Park, Central Florida</td>
<td>17</td>
<td></td>
</tr>
<tr>
<td>Residence Life, Housing and</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Residency Reclassification</td>
<td>40</td>
<td></td>
</tr>
<tr>
<td>Resource Center, Off-Campus Student</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Retention, Academic Development and</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Returned Check Charge</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>Rosen School of Hospitality Management</td>
<td>98</td>
<td></td>
</tr>
<tr>
<td>ROTC (see Army: Force)</td>
<td>92</td>
<td></td>
</tr>
<tr>
<td>Russian Area Studies</td>
<td>76</td>
<td></td>
</tr>
<tr>
<td>SASS Degree Audit</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>Schedule Web Guide</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>School Costs</td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>Second Bachelor's Degree</td>
<td>31, 51</td>
<td></td>
</tr>
<tr>
<td>Semester Hours Defined</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>(See Terms and Credit Hours)</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>Senior Citizens</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>Senior Classification</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Sexual Harassment Policy</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Shakespeare Festival</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Simulation and Training, Institute</td>
<td>66</td>
<td></td>
</tr>
<tr>
<td>Small Business Development Center</td>
<td>67</td>
<td></td>
</tr>
<tr>
<td>Small Business Institute</td>
<td>67</td>
<td></td>
</tr>
<tr>
<td>Social Sciences Program</td>
<td>76</td>
<td></td>
</tr>
<tr>
<td>Social Work, School of</td>
<td>97</td>
<td></td>
</tr>
<tr>
<td>Sociology and Anthropology Department</td>
<td>76</td>
<td></td>
</tr>
<tr>
<td>Sophomore Classification</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Special Programs</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>Special Student Classification</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>State Tuition Exempt Program (STEP)</td>
<td>39, 52</td>
<td></td>
</tr>
<tr>
<td>Statistics Department</td>
<td>76</td>
<td></td>
</tr>
<tr>
<td>Student</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>Academic Resource Center (SARC)</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Activities</td>
<td>25</td>
<td></td>
</tr>
<tr>
<td>Athletes</td>
<td>22</td>
<td></td>
</tr>
<tr>
<td>Attendance and Absences</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Classification</td>
<td>55</td>
<td></td>
</tr>
<tr>
<td>Conduct</td>
<td>26, 55</td>
<td></td>
</tr>
<tr>
<td>Disability Services</td>
<td>26</td>
<td></td>
</tr>
<tr>
<td>Employment</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>Financial Assistance, Office of</td>
<td>27, 53</td>
<td></td>
</tr>
<tr>
<td>Financial Responsibility Statement</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>Government</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>Health Services</td>
<td>24</td>
<td></td>
</tr>
<tr>
<td>Leadership Programs</td>
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<tr>
<td>Outreach Programs</td>
<td>27</td>
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<tr>
<td>Rights &amp; Responsibilities</td>
<td>26, 37</td>
<td></td>
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<tr>
<td>Transfer</td>
<td>30, 32, 45</td>
<td></td>
</tr>
<tr>
<td>Union</td>
<td>24</td>
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<tr>
<td>Student Accounts Office</td>
<td>37</td>
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<tr>
<td>Student Development and Enrollment Services</td>
<td>21</td>
<td></td>
</tr>
<tr>
<td>Student Responsibility for Intercity</td>
<td>21</td>
<td></td>
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<td>Communication</td>
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<tr>
<td>Student Use of Technology</td>
<td>13</td>
<td></td>
</tr>
<tr>
<td>Study Abroad Programs</td>
<td>64, 252</td>
<td></td>
</tr>
<tr>
<td>Summer Cum Laude</td>
<td>55</td>
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<tr>
<td>Summer Attendance Requirement</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>Teaching and Learning Principles, Department</td>
<td>84</td>
<td></td>
</tr>
<tr>
<td>Department of</td>
<td>84</td>
<td></td>
</tr>
<tr>
<td>Temporary Student</td>
<td>55</td>
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</tr>
<tr>
<td>Terms and Credit Hours</td>
<td>52</td>
<td></td>
</tr>
<tr>
<td>Testing Center</td>
<td>23</td>
<td></td>
</tr>
<tr>
<td>Theatre Department</td>
<td>76</td>
<td></td>
</tr>
<tr>
<td>Third Attempt Course Repeat Surcharge</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>TOEFL</td>
<td>31, 49</td>
<td></td>
</tr>
<tr>
<td>Tourism Studies, Dick Pope, Sr. Institute for</td>
<td>65</td>
<td></td>
</tr>
<tr>
<td>Tours, Campus</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>Transcript Requests</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>Transient Students</td>
<td>31, 53, 55</td>
<td></td>
</tr>
<tr>
<td>Transit Services</td>
<td>20</td>
<td></td>
</tr>
<tr>
<td>Tuition and Fees</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>2002-2003 Schedule</td>
<td>38</td>
<td></td>
</tr>
<tr>
<td>Appeals</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>Refunds</td>
<td>39</td>
<td></td>
</tr>
<tr>
<td>Veterans</td>
<td>39</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Admissions</td>
<td>57, 28</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Degree Requirements</td>
<td>47</td>
<td></td>
</tr>
<tr>
<td>Undergraduate to Graduate Fellowship</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>Undergraduate Studies</td>
<td>37</td>
<td></td>
</tr>
<tr>
<td>Upper Division, Admission to</td>
<td>51</td>
<td></td>
</tr>
<tr>
<td>Veterans' Affairs</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td>Withdrawal Policy</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>Women's Studies Program</td>
<td>76</td>
<td></td>
</tr>
<tr>
<td>Work Study</td>
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<tr>
<td>Classroom Bldg.</td>
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<td>College of Arts &amp; Sciences</td>
<td>87</td>
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<td>Diversity Initiatives</td>
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