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

Accent on the Individual
Accent on Excellence

Undergraduate Admissions
University of Central Florida
PO Box 160111
Orlando, Florida, 32816-0111
407-823-3000

Registrar’s Office
University of Central Florida
PO Box 160114
Orlando, Florida 32816-0114
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Student Financial Assistance Office
University of Central Florida
Orlando, Florida 32816-0113
407-823-2827

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University of Central Florida
PO Box 163222
Orlando, Florida 32816-3222
407-823-4663

University Operator
407-823-2000

UCF Home Page: http://www.ucf.edu
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
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Director, University Outreach Programs  
TBA  
Director, Institutional Research  
TBA  
Director, Off-Campus Student Services  
TBA  
Director, Recreation and Wellness Center  
TBA  
Coordinator, Dispute Resolution Service  
TBA  
Director, Student Rights and Responsibilities and Legal Services  
TBA  
Coordinator, Student Conduct  
TBA  
Director, Student Health Services  
R. K. Faust  
Assistant Vice President for Administrative Services  
Sharon Eken  
Assistant Director, Administrative Services  
Richard S. Payne  
Director, Student Government  
TBA  
Director, Administrative Services  
TBA  
Director, Advisor, Student Government  
TBA  
Assistant Vice President for Special Programs  
Tommy Shavers  
Associate Director, Multicultural Academic and Support Services  
A. J. Range  
Director, University Outreach Programs  
TBA  
Director, Institutional Research  
TBA  
Director, Off-Campus Student Services  
TBA  
Director, Recreation and Wellness Center  
TBA  
Coordinator, Dispute Resolution Service  
TBA  
Director, Student Rights and Responsibilities and Legal Services  
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Coordinator, Student Conduct  
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Assistant Director, Administrative Services  
Richard S. Payne  
Director, Student Government  
TBA  
Director, Administrative Services  
TBA  
Director, Advisor, Student Government  
TBA  
Assistant Vice President for Special Programs  
Tommy Shavers  
Assistant Vice President, Academic Affairs and Dean  
John F. Schell  
Assistant Dean, Undergraduate Studies  
David Dees
# CAMPUS SERVICES DIRECTORY

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<tr>
<th>Campus Office/Service</th>
<th>Location</th>
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<td>UCF Clermont</td>
<td>1250 N. Hancock Rd., Clermont, FL</td>
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<td>UCF Cocoa</td>
<td>1519 Clearlake Road, Cocoa, FL</td>
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<td>UCF Daytona Beach</td>
<td>1200 W. International Speedway Blvd., Daytona Beach, FL</td>
<td>386-255-7423</td>
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<td>UCF Deland</td>
<td>1155 County Rd. 4139, Portable 104, Deland, FL</td>
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<td>UCF Downtown</td>
<td>36 West Pine St., Orlando, FL</td>
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<td>UCF Kirkman Rd.</td>
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<td>UCF Melbourne</td>
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<td>UCF Card</td>
<td>John T. Washington Center, Rm 104</td>
<td>407-823-2100</td>
</tr>
<tr>
<td>UCF Foundation, Inc.</td>
<td>Research Pavilion, PVL 140</td>
<td>407-882-1220</td>
</tr>
<tr>
<td>UCF Virtual Campus</td>
<td>Center for Distributed Learning, Research Pavilion 256</td>
<td>407-823-4910</td>
</tr>
<tr>
<td>Undergraduate Admissions</td>
<td>MH 161</td>
<td>407-823-3000</td>
</tr>
<tr>
<td>University Honors Program</td>
<td>Burnett Honors College (BHC)</td>
<td>407-823-3449</td>
</tr>
<tr>
<td>University Relations</td>
<td>MH 338</td>
<td>407-823-2502</td>
</tr>
<tr>
<td>Veterans' Benefits</td>
<td>Veterans' Affairs, MH 149</td>
<td>407-823-2707</td>
</tr>
<tr>
<td>Wellness, Health Education</td>
<td>Recreation and Wellness Center</td>
<td>407-823-5841</td>
</tr>
<tr>
<td>Withdrawal from Courses or University</td>
<td>Registrar, MH 161 or POLARIS (<a href="https://connect.ucf.edu">https://connect.ucf.edu</a>)</td>
<td>407-823-3100</td>
</tr>
</tbody>
</table>
## 2003 - 2004 FALL - SPRING ACADEMIC CALENDARS

<table>
<thead>
<tr>
<th>Event</th>
<th>Fall 2003</th>
<th>Spring 2004</th>
</tr>
</thead>
<tbody>
<tr>
<td>Application deadline for International students</td>
<td>May 1</td>
<td>Aug. 1</td>
</tr>
<tr>
<td>Application deadline for all undergraduate applicants and transfers</td>
<td>May 1</td>
<td>Nov. 1</td>
</tr>
<tr>
<td>Application deadlines for readmission</td>
<td>July 15</td>
<td>Nov. 14</td>
</tr>
<tr>
<td>Registration and Add/Drop&lt;sup&gt;1&lt;/sup&gt;</td>
<td>April 7-Aug. 22</td>
<td>Oct. 27-Jan. 4</td>
</tr>
<tr>
<td>Graduation Application due in college advising office</td>
<td>July 28</td>
<td>Dec. 5</td>
</tr>
<tr>
<td>Residence halls open (11:00 a.m.)</td>
<td>Aug. 22</td>
<td>Jan. 2</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>Aug. 22</td>
<td>Jan. 2</td>
</tr>
<tr>
<td>Classes begin</td>
<td>Aug. 25</td>
<td>Jan. 5</td>
</tr>
<tr>
<td>Late Registration&lt;sup&gt;2&lt;/sup&gt; and Add/Drop&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Aug. 25-29</td>
<td>Jan. 5-9</td>
</tr>
<tr>
<td>Last day for full refund&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Aug. 29</td>
<td>Jan. 9</td>
</tr>
<tr>
<td>Grade Forgiveness deadline&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Aug. 29</td>
<td>Jan. 9</td>
</tr>
<tr>
<td>Last day to mail payment (postmarked)</td>
<td>Sep. 5</td>
<td>Jan. 16</td>
</tr>
<tr>
<td>Payment Deadline&lt;sup&gt;2&lt;/sup&gt;</td>
<td>Sep. 6</td>
<td>Jan. 17</td>
</tr>
<tr>
<td>Withdrawal deadline&lt;sup&gt;1&lt;/sup&gt;</td>
<td>Oct. 17</td>
<td>Feb. 27</td>
</tr>
<tr>
<td>VA deferral payment deadline</td>
<td>Nov. 21</td>
<td>April 2</td>
</tr>
<tr>
<td>Classes end; last day to remove incomplete&lt;sup&gt;3&lt;/sup&gt;</td>
<td>Dec. 5</td>
<td>April 19</td>
</tr>
<tr>
<td>Final Examination Period</td>
<td>Dec. 6-12</td>
<td>April 20-26</td>
</tr>
<tr>
<td>Residence halls close (noon)</td>
<td>Dec. 13</td>
<td>April 27</td>
</tr>
<tr>
<td>Commencement</td>
<td>Dec. 15-16</td>
<td>April 30-May 1</td>
</tr>
<tr>
<td>Grades due in Registrar’s Office</td>
<td>Dec. 17</td>
<td>April 29</td>
</tr>
<tr>
<td>Grades Available on POLARIS (begins 9:00 a.m.)</td>
<td>Dec. 18</td>
<td>April 30</td>
</tr>
</tbody>
</table>

<sup>1</sup> Ends at 5:00 p.m. on last day  
<sup>2</sup> $100 fee applies to students who have not previously registered or paid fees by the due date  
<sup>3</sup> 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.”

### 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.

### 2003-04 University Holidays and Special Dates

<table>
<thead>
<tr>
<th>Event</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Labor Day Holiday</td>
<td>September 1, 2003</td>
</tr>
<tr>
<td>Homecoming Week*</td>
<td>October 20-25, 2003</td>
</tr>
<tr>
<td>Veteran’s Day Holiday</td>
<td>November 11, 2003</td>
</tr>
<tr>
<td>Thanksgiving Holiday</td>
<td>November 27-30, 2003</td>
</tr>
<tr>
<td>Martin Luther King Jr. Holiday</td>
<td>January 19, 2004</td>
</tr>
<tr>
<td>Spring Break - Holiday</td>
<td>March 8-13, 2004</td>
</tr>
<tr>
<td>Founder’s Day Honors Convocation*</td>
<td>April 7, 2004</td>
</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</td>
<td>March 1</td>
<td>March 1</td>
<td>March 1</td>
<td>March 1</td>
</tr>
<tr>
<td>International students</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application deadline for all undergraduate</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>applicants and transfers</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application deadlines for readmission</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Registration and Add/Drop¹</td>
<td>Mar 15 - May 9</td>
<td>Mar 15 - May 14²</td>
<td>Mar 15 - May 9</td>
<td>Mar 15 - May 9²</td>
</tr>
<tr>
<td>Graduation Application due in college</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>advising office</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</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Employees, Senior Citizens, Non-degree,</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>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 due², Last day for full refund¹</td>
<td>May 4</td>
<td>May 14/June 25</td>
<td>May 4</td>
<td>May 4</td>
</tr>
<tr>
<td>Grade Forgiveness deadline¹</td>
<td>May 4</td>
<td>June 25</td>
<td>May 4</td>
<td>May 14</td>
</tr>
<tr>
<td>Withdrawal deadline¹</td>
<td>May 28</td>
<td>July 9</td>
<td>June 18</td>
<td>June 9</td>
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<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</td>
<td>June 24</td>
<td>August 5</td>
<td>August 5</td>
<td>July 15</td>
</tr>
<tr>
<td>(begins 9:00 a.m.)</td>
<td></td>
<td></td>
<td></td>
<td></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

<table>
<thead>
<tr>
<th>Holiday</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<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>

**NOTE:** Dates are subject to change. Consult the Schedule Web Guide and online Academic Calendar (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.”
Administrative Procedures Act Policy Statement

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

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

Sexual Harassment Policy

The University of Central Florida values diversity in the campus community. Accordingly, discrimination on the basis of race, sex, national origin, religion, age, disability, marital status, parental status, or veteran’s status is prohibited.

Sexual harassment, a form of sex discrimination, is defined as unwelcome sexual advances, requests for sexual favors, or verbal or physical conduct of a sexual nature when:

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

Sexual harassment is strictly prohibited. Occurrences will be dealt with in accordance with the guidelines above and University rules. Employees, students, or applicants for employment or admission may obtain further information on this policy, including grievance procedures, from the Equity Coordinator. The Director of the Office of Equal Opportunity and Affirmative Action Programs is the campus Equity Coordinator responsible for concerns in all areas of discrimination. The office is located on the main campus, in Millican Hall 330, Orlando, FL 32816-0030. The phone number is 407-UCF-1EEO. Policies and guidelines are available on-line at http://pega-sus.cc.ucf.edu/~eeo/home.htm

Drug-Free Workplace/Drug-Free Schools Policy Statement

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

Academic Behavior Standards

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

- Cheating, whereby non-permissible written, visual, or oral assistance including that obtained from another student is utilized on examinations, course assignments, or projects. The unauthorized possession or use of examination or course related materials 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 breach of standards shall be considered equally culpable. In cases of cheating or plagiarism, the instructor may take appropriate academic action ranging from loss of credit for a specific assignment, examination, or project to removal from the course with a grade of “F.” Additionally, the instructor may request disciplinary action through the Office of Student Rights and Responsibilities as outlined in The Golden Rule.

Student Use Of Technology

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

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

The University of Central Florida has developed one of the nation’s most advanced campus technology environments, and all UCF students are provided free e-mail accounts and Internet access. Students wishing to acquire a personal computer are strongly advised to consider a laptop equipped with a wireless networking card. Recommended configurations can be found on the University’s Web site at http://www.cstore.ucf.edu/store/standards.html

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

Mission Statement
The University of Central Florida is a major metropolitan research university whose mission is to deliver a comprehensive 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 national 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 enterprise, 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 institutional 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 partnerships that promote development of Central Florida’s economy 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 metropolitan 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 professional 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-traditional 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 30033-4097; Telephone number 404-679-4501) to award degrees at the associate, baccalaureate, master’s, and doctoral levels. At the undergraduate level, the following programs (disciplines) have been granted accreditation:

College/Discipline | Accrediting Body
--- | ---
Arts and Sciences | 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 | Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET)
Aerospace, Civil, Computer, Electrical, Environmental, Industrial, and Mechanical Eng | Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET)
Computer Science | Computing Accreditation Commission (CAC) of ABET
Engineering Technology | Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET)
Computer Science | Computing Accreditation Commission (CAC) of ABET
Health and Public Affairs | 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 (CAAHEP)
Health Information Management | American Health Information Management Association (AHIMA) in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAAHEP)
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
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 systems offer programs and courses on a regular basis, and may provide minimal student services. Instructional sites offer full programs and courses on a continuous basis. Centers offer 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 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
Charles D. McQuillen

Associate Director, University Relations
Director of Library Services
Special Projects Director
Coordinator, Academic Programs
Instructional Facilities Scheduler
Karen Jans
Mem Stahley
Judith Boyte
Jeannne Winter
Barbara Smith

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

Graduate Certificate Programs: 386-255-7423

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

Associate Vice President, Southern Region Director
James A. Drake
Southern Region Associate Director
John Dietrich
Coordinator, UCF Palm Bay
Robert Caldwell
Coordinator, UCF Kennedy Space Center
Ali Rahrooh
Coordinator, Admissions, Registration, Records
Deborah Bradford
Interim Director, Campus Life
James C. Smith
Assistant Director for Marketing, University Relations
Carolyn Burns
BCC/UCF Computer Laboratory
Sue Sorensen
Coordinator, Ed Media/ITV
John King
Coordinator, Library Services
Allison King
Academic Support Services
Veronica Corpus,
Helen Stewart Dunham, Heather Harrison,
Debbie Phillips, William T. Yates

Degree programs currently offered in the Southern Region:

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
For information: 352-536-2113

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

UCF Chiefland

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 Sumterville (Instructional Site)

For the most current listings, view the website at www.areacampuses.ucf.edu/areaclassschedules.html

University of Central Florida
Western Region Director
David Meador
Western Region Associate Director
Bernard Jensen
Admissions/Registration Officer
Tanya Armstrong
Academic Support Services
Ivy Johnson, Debbie Phillips
Selena Forrester

Undergraduate Programs
Criminal Justice
Early Childhood Education
Elementary Education
Liberal Studies
Psychology
Sports and Fitness

Graduate Programs
Educational Leadership
Exceptional Education

UCF Leesburg
Undergraduate Programs
Nursing RN-BSN

UCF Ocala
Undergraduate Programs
Full Programs in Elementary Education & Nursing (RN-BSN, Web-based)
UCF Ocala also provides students with the opportunity to enroll in selected courses leading to undergraduate (junior and senior level) Criminal Justice, Liberal Studies and Psychology Programs.

UCF Sanford/Lake Mary
Undergraduate Programs
Full Program in Elementary Education and Liberal Studies
UCF Sanford/Lake Mary also provides students with the opportunity to enroll in selected courses leading to undergraduate (junior and senior level) Criminal Justice and Psychology Programs.

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

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

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

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

Research Park tenants are involved with the University of Central Florida through sponsored research, using faculty as consultants, and using graduate and undergraduate students for intern programs and part-time employment. Research Park tenants can also contract with the University for use of the library, computer resources, and laboratory facilities. Cooperative projects range from technical research to developing business plans and employee training programs.
Endowed Chairs
Endowed chairs are established under the Florida Major Gifts Trust Fund, which provides $420,000 in state funds to match $600,000 in contributions from private sources within a five-year period. 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, competitive 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 purpose is to enhance scholarly activity in teaching and research in the College of Business Administration.

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

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

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

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

Bert Fish Memorial Eminent Scholar Chair: Created in 1990 to establish an endowed chair in nursing education. This is the first chair to be established at the Daytona Campus. It is designed to improve nursing education and ease the shortage of nurses. Chair: Angeline A. Bushy.

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

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

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

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

This office is responsible for administering State of Florida and University academic policies pertaining to academic records, 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 Crime Prevention Unit (407-823-2165) presents crime prevention seminars for property protection and personal safety for the community. The Crime 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 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.

WebLUIIS, the Library’s web-base catalog, can be accessed from any public or as well as home PC. WebLUIIS 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 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 (WebLUIIS), 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 WebLUIIS, 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 Education Building. The Center contains 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 LUIIS and to University resources on the web. Couriers 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; CB 350; 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 systems: Sun Enterprise (SUN) V800, V980, SXX 5000 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 (CC1 104) and Main Lab East (CC1 113). The other labs are located in the following buildings: Classroom 1 (CL1 101) and Magruder lab in Business Administration (BA 148). UNIX equipment is available in CC1-113. Most labs are open seven days a week with extended hours. The CyberKnight Center is located in CC1 to assist students with computer and internet needs.

Online access to registration, grades, and financial aid information services are available from POLARIS (http://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 on-line 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 computer 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’s PBX. Campus residence students 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, video 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 (DIPL), located in the Research Pavilion (Suite 169) in the Central Florida Research Park. In association with its community partners, DIPL offers UCF faculty access to state-of-the-art digital imaging technologies including digital-image processing, digital document scanning, and CD-ROM production. OIR’s Faculty Multimedia Center (CL1 202) provides multimedia production and training resources for faculty using Macintosh and Windows personal computer systems. OIR’s Interactive Video Classroom (CL1 320) is used for videoconferencing and ITV course origination. The Center 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 (CL1 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 also supports the Florida Educational Video Network, video over IP, interactive course delivery, video production, audio production, photography, graphics, and a full range of multimedia classroom support services. 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 (CL1 215) 407-823-2574.

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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/~webct417), 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/~coursedev/cdrom/pegasus.htm). Students also play an active role in supporting CDWS projects. A student Web programming team called the Techrangers 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, and competes in the Atlantic Sun Conference, and competes in the Mid-American Conference for football. Intercollegiate athletics contests are governed by the rules of play published by NCAA and all established eligibility standards are observed. UCF’s current intercollegiate sports for men include baseball, basketball, cross country, golf, football, soccer, and tennis. Women’s sports include basketball, cross-country, golf, rowing, soccer, softball, outdoor and indoor track and field, tennis, and volleyball.

Graduation Rate Disclosure
The completion or graduation rate is the rate at which full-time, certificate-seeking or degree-seeking undergraduate students who are 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 textbook 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 Micillic 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 Alive!’ and ‘Shakesperience.’ Internships and independent studies with the Festival for UCF students and alumni are available in all departments. For more information, contact Artistic Director Jim Helsinger, 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, Alumni Knights Outs, cultural events, pre-game events, KnightFest, community service projects, travel getaways and road trips.
- Career services through a partnership with iplacment, 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://pegasus.cc.ucf.edu/~assa.

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://fyt.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 targeted 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 Stinar; 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., accountancy, 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://pegasus.cc.ucf.edu/~sarc
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 Proficiency Exam (FLPE), the Grammar and Pre-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 career 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 experience;
- 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/~counstst.

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.
The Campus Life unit develops partnerships to provide meaningful programs, quality services, and personal growth opportunities for students in learning environments. Campus Life promotes personal excellence, healthy lifestyles, leadership development, and community responsibility. Departments in Campus Life include: Student Leadership Programs (LEAD Scholars Program, Greek Affairs, Student Activities and Organizations, United Campus Ministries), Campus Life Operations (Student Union, Recreation and Wellness Center, and Intramural Sports), Student Rights and Responsibilities (Student Conduct, Dispute Resolution, Student Legal Services), Student Health Services, Housing, Residence Life, Affiliated Housing, and Off-Campus Student Services (Off-Campus Student Resource Center, Area Campuses).

Housing and Residence Life
Director: Christi Hartzler; HAB 101; 407-823-4663

Regularly enrolled single students paying registration fees for a minimum of nine semester hours may apply for assignment to University residential units. Approximately 3,800 students are housed in facilities located in four on-campus residential communities: Apollo 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-styled arrangement, a single-occupancy bedroom in a four-bedroom apartment facility, a single-occupancy bedroom in a suite-styled 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 who live off-campus with information regarding a variety of on-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 service to Orlando specialists is established.

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

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 specialized opportunities 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. The program provides a wide variety of experiences in art, music, language, motor skills, science, math, social studies, perceptual development, socialization, and self-discovery. Planned and spontaneous field trips and special family programs are part of the yearly schedule. Experiences in reading and training in academic areas also are made available to University students. Opportunities for educational research are available to university faculty and graduate students. Operating hours are 7:45 a.m. to 5:15 p.m., Monday through Friday.

International Student and Scholar Services (ISSS)
Director: Saleha Suleman; Trailer #543; 407-823-2337

The International Student and Scholar Services Office provides assistance and information to the University of Central Florida international community. Its main function is to serve as a unit of advocacy and support, assist in adjusting to a new academic environment, and culture, and provide immigration and other advising to prospective, new and currently enrolled international students and scholars at the University of Central Florida. A wide range of special services is offered to help international students and scholars maintain their non-immigrant visa status. This includes issuing necessary INS documents to facilitate visa issuance abroad, transfer procedure and employment authorization. Counseling and assistance on personal, financial, academic, and cultural concerns also are given to guide the international students and scholars within the University community to providing accurate and timely information on issues and needs pertinent to international students and scholars. Another important role of the office is to enhance international awareness and cross cultural understanding through educational, cultural and social programs and activities.

Multicultural Academic and Support Services (MASS)
Associate Director: Inez M. Ford; MH 145; 407-823-2716

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

Student Disability Services (SDS)
Director: Philip Kalfin; SRC 132; 407-823-2371

The Office of Student Disability Services provides information and individualized services consistent with the student’s documented disability. Such services may include, but are not limited to, orientation to campus facilities and services, assistance with classroom accommodations, assistance with course registration, accessible housing, academic advising and support; monitors academic progress; sponsors a six week summer program, Seizing Opportunities for Achievement and Retention (SOAR); and designs and coordinates cultural and social activities to assist multicultural students in realizing their academic, career, and personal goals. MASS serves as the focal point of operations in addressing the specific needs, issues and concerns that confront multicultural students at UCF.

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Division Of Student Development And Enrollment Services

Student Outreach Programs
Director: TBA; 407-823-5580

The primary mission of Student Outreach Programs is to attract, motivate, and prepare select underrepresented student groups to complete a college education. These students are provided with essential information, educational materials and collegial experiences to enhance their preparation for post-secondary study.

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

Throughout the year, workshops, seminars and other activities and events are sponsored to support the student’s personal development and academic achievement. Students are invited to the UCF campus for summer programs that provide an early introduction to college life and which equip students with unique approaches to attain college preparedness.

Veterans’ Affairs
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 experiential, 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 education 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 for three-quarter time benefits, and 6-8 semester hours for half-time 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.

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/~admissio/

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.
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 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.
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/~admissions/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 admission 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 these incomplete records will not be permitted to register for a future term until all official transcripts and other required documentation have been received. If, upon review of final transcripts, student records are not satisfactory, they may be placed on academic probation, have their admission status revoked, changed for 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 may be required to submit a Test of English as a Foreign Language (TOEFL) score.

High School Academic Units and Grade Point Average

All applicants must have earned a minimum number of high school academic units (year-long courses that are not remedial in nature) to be considered for admission. A grade point average (GPA) will be computed only on academic courses. Grades in 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
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>
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<tbody>
<tr>
<td>2.0</td>
<td>1140 25</td>
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<td>2.1</td>
<td>1110 24</td>
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<td>2.9</td>
<td>970 20</td>
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<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 returning 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 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 online at [http://pegasus.cc.ucf.edu/admissions](http://pegasus.cc.ucf.edu/admissions), 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 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 academic credit must meet general education program 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 in Florida 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-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; and
7. Equal opportunity with native university students to enter limited programs.

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 to participate in intercollegiate sports; and,
8. Students must complete a Limited Non-Degree Seeking Status Registration Form.

Students registering in this category should be aware 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 922, Princeton, NJ, 08540 or from ACT, P.O. Box 414, Iowa City, Iowa, 52243. While there are no specific minimum score requirements on these examinations...
for admission, they are used in conjunction with other required credentials, and students should prepare sufficiently to achieve the highest possible score on these exams.

Applicants must file a “Confidential Financial Statement” with the International Student Services Office confirming availability of finances for the first year of study. This statement must be on file prior to the issuance of the appropriate immigration papers. The Undergraduate Admissions Office may require additional documents and/or official transcripts before an admission decision is made.

Educational Translations and Evaluations
Foreign diplomas must meet the requirements specified in Florida Statutes, section 229.814. UCF will accept English translations and evaluations of academic credit from these agencies:

| Josef Silny and Associates, World Education Services |
| P.O. Box 248233, Coral Gables, FL 33124, Old Chelsea Station, (305) 273-1616, New York, NY 10013-0745, (212) 956-6311 |

International Student Mandatory Health and Accident Insurance
Each international student offered admission shall, prior to registration for classes, submit proof of compliance with the State University System of Florida’s mandatory health and accident insurance requirement. Minimum coverage limits may be obtained from the Office of International Student Services. Written proof of insurance must also be provided. If insurance is issued by a foreign carrier or underwriter, a statement must be provided in English to assure that the policy meets the State of Florida minimum levels of insurance coverage.

The University reserves the right to refuse registration to any international student who fails to comply with this insurance requirement or who is unable to supply satisfactory proof of insurance. The University also reserves the right to withdraw from classes any international student who fails to maintain insurance coverage, cancels insurance coverage, or avoids in any way the responsibility to comply with the insurance requirement.

Non-Academic Admission Clearances
Florida Department of Education Rule 6C-6.001(2) authorizes universities to refuse admission 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 any other academic and/or disciplinary action up to and including expulsion.

Transfer Credit: All Applicants
All grades from a regionally-accredited college or university in transfer courses that are normally part of a baccalaureate degree program are shown on the student’s permanent UCF record. Effective Fall 2001, the University recognizes a grading system of plus or minus. In addition, grade forgiveness is honored only if it has been awarded as part of an AA or a specific statewide articulated AS degree from a Florida public community college. Credit is not awarded based on job descriptions, life experience, or course work that is non-academic.

Accredited Institutions
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 Secondary and Higher Schools, 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 converted 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 the assistance of which degree requirements have been met and what remains to be satisfied. Although all college-level course work transferred from a regionally 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 regionally-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.
Financial Information

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></th>
<th>LIVING WITH PARENTS</th>
<th>OTHER</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition/Fees</td>
<td>$2,905</td>
<td>$2,905</td>
</tr>
<tr>
<td>Books/Supplies</td>
<td>800</td>
<td>800</td>
</tr>
<tr>
<td>Room/Board</td>
<td>4,056</td>
<td>7,191</td>
</tr>
<tr>
<td>Personal Exp.</td>
<td>1,989</td>
<td>1,989</td>
</tr>
<tr>
<td>Transportation</td>
<td>1,434</td>
<td>1,434</td>
</tr>
<tr>
<td>Total (In State)</td>
<td>11,184</td>
<td>14,319</td>
</tr>
<tr>
<td>Out-Of-State Tuition/Fees</td>
<td>8,446</td>
<td>8,446</td>
</tr>
<tr>
<td>Total (Out of State)</td>
<td>$19,630</td>
<td>$22,765</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...
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.
- 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 any time, 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 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.

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 Stafford 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.

Student Financial Information

November 15
March 15
June 30
Fall Semester Loan
Spring Semester Loan
Summer Term Loan

Financial Information

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 (FWEP) 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 deferment will be reflected on the 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.
- deferments 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.

Note: The amount of anticipated Subsidized and Unsubsidized Federal Stafford Loan will include the total eligibility; however, the amount received will be 97% of the award. Lenders deduct the 3% origination fees at the time of disbursement.

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 properly 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.

November 15
March 15
June 30
Fall Semester Loan
Spring Semester Loan
Summer Term Loan

http://finaid.ucf.edu
Financial Information

<table>
<thead>
<tr>
<th>Program</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 (Supplemental Educational Opportunity Grant)</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>FSAG (Florida Student Assistance Grants)</td>
<td>March 1</td>
<td>6</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Federal College Work Study</td>
<td>March 1</td>
<td>6</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FWEP (Florida Work Experience Program)</td>
<td>Varies</td>
<td>6</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Federal Stafford Loan Program</td>
<td>Posted each term</td>
<td>6 at UCF in UCF classes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Federal Perkins Loans</td>
<td>March 1</td>
<td>6</td>
<td>Yes at least half-time at UCF</td>
<td>Yes</td>
</tr>
<tr>
<td>Scholarships</td>
<td>Varies a year</td>
<td>Varies</td>
<td>Yes at least half-time at UCF</td>
<td>Yes</td>
</tr>
<tr>
<td>Federal Unsubsidized Stafford Loans</td>
<td>Posted each term</td>
<td>6 at UCF in UCF classes</td>
<td>Yes</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: The verification process must be complete before financial aid is 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 as 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 with a counselor.

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.
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, B-, C+, 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, 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>Overall Attempted Hours (including transferred hours)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td>180</td>
</tr>
<tr>
<td>Second-Degree</td>
<td>60 (including all Post-Bac hours)</td>
</tr>
<tr>
<td>Master's</td>
<td>70 (including all Post-Bac hours)</td>
</tr>
<tr>
<td>Specialist</td>
<td>100 (including all Graduate and Post-Bac hours)</td>
</tr>
<tr>
<td>Doctorate</td>
<td>120 (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://safaid.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 aid 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:

<table>
<thead>
<tr>
<th>Registration Fee</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fee Invoice</td>
<td></td>
</tr>
</tbody>
</table>
| Student Financial Responsibility Statement

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."
Financial Information

online at www.finacct.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 ponde 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. Tension 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*
(2003-2004 fees not available at time of publication).

<table>
<thead>
<tr>
<th>Fees Per Credit Hour</th>
<th>Florida Resident Undergraduate</th>
<th>Florida Resident Graduate</th>
<th>Non-Florida Resident Undergraduate</th>
<th>Non-Florida Resident Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matriculation Fee</td>
<td>$58.45</td>
<td>$58.45</td>
<td>$58.45</td>
<td>$58.45</td>
</tr>
<tr>
<td>Non-Resident Fee</td>
<td>0</td>
<td>0</td>
<td>$300.49</td>
<td>$465.33</td>
</tr>
<tr>
<td>Building Fee</td>
<td>$2.32</td>
<td>$2.32</td>
<td>$2.32</td>
<td>$2.32</td>
</tr>
<tr>
<td>Capital Improvement Fee</td>
<td>$2.44</td>
<td>$2.44</td>
<td>$2.44</td>
<td>$2.44</td>
</tr>
<tr>
<td>Financial Aid Fee</td>
<td>$2.91</td>
<td>$2.91</td>
<td>$2.91</td>
<td>$2.91</td>
</tr>
<tr>
<td>Non-Res Financial Aid Fee</td>
<td>0</td>
<td>0</td>
<td>$13.13</td>
<td>$20.34</td>
</tr>
<tr>
<td>UCF Activity and Svc Fee</td>
<td>$8.09</td>
<td>$8.09</td>
<td>$8.09</td>
<td>$8.09</td>
</tr>
<tr>
<td>UCF Athletic Fee</td>
<td>$9.90</td>
<td>$9.90</td>
<td>$9.90</td>
<td>$9.90</td>
</tr>
<tr>
<td>Transportation Access Fee</td>
<td>$3.90</td>
<td>$3.90</td>
<td>$3.90</td>
<td>$3.90</td>
</tr>
<tr>
<td>Repeat Course Fee</td>
<td>$177.42</td>
<td>$177.42</td>
<td>$401.63</td>
<td>$666.67</td>
</tr>
<tr>
<td>TOTAL PER HOUR FEES</td>
<td>$88.01</td>
<td>$181.00</td>
<td>$401.63</td>
<td>$666.67</td>
</tr>
</tbody>
</table>

2002-2003 Third Attempt Repeat Course Fee Schedule*

<table>
<thead>
<tr>
<th>Fees Per Credit Hour</th>
<th>Florida Resident Undergraduate</th>
<th>Florida Resident Graduate</th>
<th>Non-Florida Resident Undergraduate</th>
<th>Non-Florida Resident Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Matriculation Fee</td>
<td>$58.45</td>
<td>$58.45</td>
<td>$58.45</td>
<td>$58.45</td>
</tr>
<tr>
<td>Non-Resident Fee</td>
<td>0</td>
<td>0</td>
<td>$300.49</td>
<td>$465.33</td>
</tr>
<tr>
<td>Building Fee</td>
<td>$2.32</td>
<td>$2.32</td>
<td>$2.32</td>
<td>$2.32</td>
</tr>
<tr>
<td>Capital Improvement Fee</td>
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<td>$2.44</td>
<td>$2.44</td>
<td>$2.44</td>
</tr>
<tr>
<td>Financial Aid Fee</td>
<td>$2.91</td>
<td>$2.91</td>
<td>$2.91</td>
<td>$2.91</td>
</tr>
<tr>
<td>Non-Res Financial Aid Fee</td>
<td>0</td>
<td>0</td>
<td>$13.13</td>
<td>$20.34</td>
</tr>
<tr>
<td>UCF Activity and Svc Fee</td>
<td>$8.09</td>
<td>$8.09</td>
<td>$8.09</td>
<td>$8.09</td>
</tr>
<tr>
<td>UCF Athletic Fee</td>
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<td>$9.90</td>
<td>$9.90</td>
<td>$9.90</td>
</tr>
<tr>
<td>Transportation Access Fee</td>
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<td>$3.90</td>
<td>$3.90</td>
<td>$3.90</td>
</tr>
<tr>
<td>Repeat Course Fee</td>
<td>$177.42</td>
<td>$177.42</td>
<td>$401.63</td>
<td>$666.67</td>
</tr>
<tr>
<td>TOTAL PER HOUR FEES</td>
<td>$265.43</td>
<td>$579.05</td>
<td>$401.63</td>
<td>$666.67</td>
</tr>
</tbody>
</table>

Other Fees: Resident and Non-resident *

<table>
<thead>
<tr>
<th>Fees</th>
<th>Florida Resident Undergraduate</th>
<th>Florida Resident Graduate</th>
<th>Non-Florida Resident Undergraduate</th>
<th>Non-Florida Resident Graduate</th>
</tr>
</thead>
<tbody>
<tr>
<td>UCF Campus Card Fee (per academic year)</td>
<td>$10.00</td>
<td>$15.00</td>
<td>$10.00</td>
<td>$15.00</td>
</tr>
<tr>
<td>Campus (ID) Card Replacement Fee</td>
<td>Minimum charge: $36.00</td>
<td>Maximum charge: $90.00</td>
<td>$10.00</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>
<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>
<td>$2.00-$15.00</td>
<td>$2.00-$15.00</td>
</tr>
<tr>
<td>Late Registration Fee</td>
<td>$100.00</td>
<td>$100.00</td>
<td>$100.00</td>
<td>$100.00</td>
</tr>
<tr>
<td>Late Payment Fee</td>
<td>$100.00</td>
<td>$100.00</td>
<td>$100.00</td>
<td>$100.00</td>
</tr>
<tr>
<td>Returned Check Fees</td>
<td>$25.00</td>
<td>$25.00</td>
<td>$25.00</td>
<td>$25.00</td>
</tr>
<tr>
<td>Check amounts over $50.00</td>
<td>$25.00</td>
<td>$25.00</td>
<td>$25.00</td>
<td>$25.00</td>
</tr>
<tr>
<td>Check amounts over $100.00</td>
<td>$25.00</td>
<td>$25.00</td>
<td>$25.00</td>
<td>$25.00</td>
</tr>
<tr>
<td>Check amounts over $500.00</td>
<td>$25.00</td>
<td>$25.00</td>
<td>$25.00</td>
<td>$25.00</td>
</tr>
<tr>
<td>Check amounts over $1000.00</td>
<td>$25.00</td>
<td>$25.00</td>
<td>$25.00</td>
<td>$25.00</td>
</tr>
<tr>
<td>Student Health Fee</td>
<td>$40.00 or 5%, whichever is greater</td>
<td>$40.00 or 5%, whichever is greater</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>
<td>$5.00 per transcript</td>
<td>$5.00 per transcript</td>
</tr>
<tr>
<td>Late Withdrawal Fee</td>
<td>$13.13</td>
<td>$20.34</td>
<td>$13.13</td>
<td>$20.34</td>
</tr>
<tr>
<td>Repeat Course Fee</td>
<td>$177.42</td>
<td>$401.63</td>
<td>$177.42</td>
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</tr>
<tr>
<td>TOTAL PER HOUR FEES</td>
<td>$265.43</td>
<td>$579.05</td>
<td>$401.63</td>
<td>$666.67</td>
</tr>
</tbody>
</table>

Zero Hour Registration: Students registering for zero credit hours pay for a minimum of one credit hour at the level they are classified.

*Fees are subject to change without notice. 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) 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. Employees may obtain the “State Employee 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 fee 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) for each term. This will be 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 of Central Florida, three offices are responsible for the review of residency for tuition purposes under Florida Statute 1009.21 (formerly 240.1201) and Board of Regents chapter 6C-7.005. The offices of Undergraduate Admissions and Graduate Studies determine residency for all first-time-on-campus students; the Registrar’s Office reviews student requests for changes in 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, paralee, Cuban national, Vietnamese refugee, or other refugee or asylee so designated by the United States Immigration and Naturalization Service.

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 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 the state for the preceding year (e.g., rent receipts, employment records).

2. Documentation establishing bona fide domicile in Florida which is not temporary or merely incidental to enrollment in a Florida institution of higher education. The following documents will be considered evidence of domicile even though no one of these 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 significant connections while absent;
   j. Proof of reliance upon Florida sources of support;
Financial Information

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 within 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.

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 reclassification form must be accompanied by all documents that support the student’s Florida residency claim. Residency reclassification requests are subject to Florida Statute 1009.21 (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 reclassification to provide documentation establishing that they have income or personal sources to meet financial obligations of attendance and living expenses. Contact the Registrar’s Office at 407-823-3100 for additional information regarding all residency reclassification requirements.

When building a case for Florida residency for tuition purposes, the student may choose to submit documents from a variety of categories. Students may consult the Registrar’s Office before submitting the reclassification request and supporting documents. The submission of documents in itself does not qualify the student for Florida residency for tuition purposes. The Registrar’s Office will evaluate the submitted documents and available information and will render an eligibility determination. UCF is authorized to make discretionary 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 reclassification should understand that living in or attending college in Florida is not tantamount to establishing residency in Florida for tuition purposes. The student who comes to Florida to enroll in a Florida post-secondary educational institution as an out-of-state resident and continuously enrolls in a Florida institution normally will not meet the Florida residency requirement for in-state tuition regardless of the length of time enrolled. Living or attending school in Florida merely evidences physical presence. The student must provide documentation verifying that he or she has formed significant legal ties to the State of Florida. This documentation must establish that the Florida residence constitutes a bona fide domicile rather than serving the purpose of maintaining a mere temporary residence or abode incident to enrollment in an institution of higher education. Evidence establishing legal ties to states other than Florida may disqualify the student from Florida residency for tuition purposes. All determinative documents must be dated at least 12 months before the first day of class for the term in which residency is sought.

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 reclassification will not be applied retroactively to previous terms.

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

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

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

Freshman (First Time in College - FTIC)

Every incoming Freshman is assigned a professional first year academic advisor in one of the 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
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, and a SASS Degree Audit is available on POLARIS. Questions about the degree audit should be directed to OASIS unless specified to the major requirements;
4. Continue to 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 policies, 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 their 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 CB 201C.
2. Set up an appointment with the faculty advisor to review your academic progress and to develop an academic plan. Review this plan each term with the advisor prior to registration;
3. Use the flow diagram or four year plan received during orientation to progress through the degree requirements;
4. View a SASS Degree Audit, the registration time, and search for classes (once the class schedule is available) through 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 submit their plan to the MMAE 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 graduation and selection of program courses. The faculty advisor's name and phone number appear on the SASS Degree Audit each term;
2. See an advisor in the College of Health and Public Affairs (COHPA) Office of Student Support (HPA2 115), if pending majors in limited-access programs, during the first few weeks of each semester to check progress toward eligibility for application to the major;
3. View a SASS Degree Audit through 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 graduation 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 combinations.
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 admission, but also to prepare for an alternate career in the event admission to a professional school is denied. Any degree-granting program may be selected as a major; however, the science majors generally 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 professional courses to be obtained. All pre-health professions students are strongly encouraged to participate in the activities of one or more of the student health related organizations.

Curricula Guidelines
All pre-health professions students are strongly encouraged to enroll in SLS 2311 (Overview of Select Medical Careers) the first 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, admission tests, interviews, admissions, scholarships, etc.) is explained in depth.
All pre-health professions students should complete the following courses (many of which are applicable to the GEP):

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

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

Choosing a Major and Academic Advisement
The advantage of declaring a major early is to be linked with an academic advisor within his or her chosen degree track. Problems are less likely when students remain in contact with advisors.
Terms such as "Premed" or "Presvet" should not be confused with offering premedical preparation.
Traditional majors for pre-health professionals are characterized by degree requirements which overlap most professional school admission 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 pharmacy) 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 professional application services (AMCAS, ADDSAS, ACOMAS, etc.) and thus require completion of a thorough application packet provided by the various application services. Otherwise, the student applicant must deal directly with the admissions office of the school.
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

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

Students transferring with an A.S. in one of the articulated degree programs should refer to the “Articulated A.S. to B.S. Programs” chapter of this Undergraduate Catalog. Any questions about these programs should be directed to the 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:
- Accurate and current information about university programs and policies including entrance and exit requirements, as well as information concerning:
  - Transfer concerns and questions;
  - Course equivalencies;
  - Common program and course prerequisites;
  - Critical academic and transfer policies;
  - Foreign language requirements;
  - UCF critical dates and deadlines;
  - General advising and referral for transfer students before and after they enroll at UCF;
  - Individual appointments to discuss transfer issues;
  - Written articulation agreements between the university and community colleges;
  - Advising for 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; and
- All grade forgiveness awarded under the A.A. will be honored.

What If I Have Not Taken the CLAST?
Students may be admitted without completing the CLAST. However, without the CLAST completed, you are not awarded the A.A.; privileges provided by the A.A. are not granted, (e.g., grade forgiveness, Gordon Rule, and the completion of general education requirements). If you have met all the A.A. requirements except the CLAST, you should have “General Education Requirements Met” placed on your transcript to assure getting credit for meeting General Education and Gordon Rule requirements. Without this statement you must satisfy UCF’s general education requirements and Gordon Rule courses. No grade forgiveness is given without the A.A. awarded. If your grade point average falls below a 2.0 (without grade forgiveness), you will 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 UCF’s general education requirements. If you have met all the A.A. requirements except the CLAST, without the CLAST, you must pass the CLAST before enrollment.

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.
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, McIlan 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 ___/___/___ date application sent (include deposit when required)
off-campus housing ___/___/___ date application sent (include deposit when required)

Immunization
___/___/___ date student health form submitted
Y N need immunizations

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

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

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

Orientation:
___/___/___ orientation date at UCF
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 narrate 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, intelligence, 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 student on-line access through POLARIS at https://connect.ucf.edu. Appeals of transfer credit decisions should be directed to Academic Services (MH 210). Substitution requests for college or major requirements are processed within those administrative offices.

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

<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 2211, MAC 2312, MAC 2213</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
- CJC 4463 Cultural Diversity in Criminal Justice
- CJC 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 3617 Promoting Healthy Communities
- NUR 3616 Promoting Healthy Families Across the Lifespan
- PAD 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 3420 Social Work with Minorities
- SOW 4772 Black Presence in Contemporary Latin America
- SYD 3800 Sex Roles in Modern Society
- SYP 4323 Social Systems and Diversity
- SYP 4734 Minority Aging
- SYP 4323 Social Systems and Diversity
- THE 3230 Commonality within Cultural Diversity Experienced Through Theater
- WST 3015 Introduction to Women's Studies

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

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

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

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

General Education Requirements
1. This requirement is for proficiency and not a requirement for a particular number of hours of course work. For example, successful completion of only SPN 1121 (Elementary Spanish Language and Civilization II) would satisfy the B.A. requirement. Appropriate scores on Advanced Placement and CLEP examinations will also satisfy the requirement.
2. This is a University-wide requirement for all B.A. majors.
3. The Testing Administrator of the 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
UNIVERSITY OF CENTRAL FLORIDA 2003-2004 Undergraduate Catalog

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 complete 24,000 words of composition
   (1) Six hours of English
   (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 4312 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 Mesoam Arch
ANT 3168 Maya Arch
ANT 3930 Seminar in Arch Meth
ARR 4350 Baroque Art
ARR 4330 19th Century Art
ARR 4356 Art After 1945
ARR 4450 20th Century Art
ARR 4655 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
EIH 3222 Medieval Society and Civilization
EIH 3214 Renaissance and Reformation
EIH 3235 Romanticism and Realism
EIH 3242 Modern Europe of the First World War
EIH 3281 Second World War and Rebirth of Europe
EIH 3411 Ancient Rome
EIH 3651 War and Society
EIH 4284 Fascism and the Totalitarian Dictatorships

EUH 3451 History of Modern France
EUH 4461 Rise of Modern Germany
EUH 4465 Hitler’s Third Reich
EUH 4500 English History to 1485
EUH 4501 English History: 1485-1815
EUH 4502 British History: 1815-Present
EUH 4530 British Empire and Commonwealth
EUH 4571 History of Russia to 1801
EUH 4574 History of Russia 1801-1917
EUH 4576 History of Russia in the 20th Century
EUH 4620 European Great Powers: 1815-1914
EUH 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 2830 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 subtest. 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.

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: leam@nerm.nerdc.ufl.edu. Website: http://www.docs.ucf.edu/indstudy.

Double Majors
Students working toward a single bachelor’s degree (B.A. or 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 B.S., at the student’s option) will be awarded. A double major does not require a minimum number of hours beyond those necessary for completing degree requirements (120 or more hours), while a second baccalaureate degree has specific minimum requirements.

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

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

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

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

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

Grades
A student must earn at least a 2.0 grade point average (GPA) to complete the required hours for graduation. Grading options are "A" through "F" for letter grades. A pass/fail option is available for some classes, and grades of "P" or "F" are recorded on the student's permanent record. Only letter grades of "A" through "D" are used in the calculation of the student's cumulative GPA. A grade of "F" or "I" (Incomplete) indicates unsatisfactory performance on a term. Incomplete grades must be completed by the last day of the next term or the student's registration will result in the withdrawal of the student from the course. A grade of "I" indicates the student is not eligible for a grade of "F." A grade of "W" (Withdrawal) indicates unsatisfactory performance on a term. A grade of "W" is computed in the student's cumulative GPA. A grade of "W" will result in the withdrawal of the student from the course.

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 web site: 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.
State University System (SUS) Florida Transient Students

An SUS Transient Student is a student in good standing who is seeking a degree from one of the other Florida public universities and desires to take courses with UCF. Students must complete the "SUS Transient Application Form" which is available at all SUS institutions and at http://www.facts.org. No application fee is required. The "SUS Transient Application Form" must be completed each term and should be mailed or delivered to the Registrar's Office (MH 161), by the application deadline noted in the "Academic Calendar" online at http://www.ucf.edu/toplinks/academic_calendar.html. Students should visit the Registrar's Office website at http://registrar.ucf.edu or contact the Registrar's Office for registration information at 407-823-3100.

UCF Students Attending Another State University System of Florida Institution

UCF students who desire to attend another SUS institution as a Transient Student may seek the "SUS Transient Application Form" from their college advising office, from the Registrar’s Office or online at http://www.facts.org. The prior permission of the department, school, and college advising office is required to ensure that the courses attempted at another institution will transfer and meet the UCF Degree/General Education Program requirements.

UCF Students Attending a Non-SUS Institution

A UCF degree-seeking student desiring to earn credit at another college or university for transfer back into a UCF degree program must obtain prior transient approval for specific courses from the Dean or Department Chair or his/her respective college or school. Transient approval of courses to be applied to the UCF General Education Program must be obtained in advance from Academic Services (MH 210). Credit earned without prior transient approval may not be accepted. Plus/minus grades will be transferred for course work earned Fall 2001 and after using UCF's grade point system. Because of graduation certification, students may not take courses in transient status during the term in which they expect to graduate. Student seeking transient status must complete the "Transient Approval Form," available from the college or school advising office, and submit it to the Registrar’s Office (MH 161). Transient credit cannot be used to reduce the last 30 semester hour residency requirement for a baccalaureate degree, the last 20 semester hour residency requirement for an Associate of Arts degree, or any departmental residency requirements.

Enrollment and Degree Certifications

Effective with Fall 2003, students will be able to obtain their enrollment verification on-line at www.degreechek.com. Parents, employers, background checking firms, and other third party agencies may request enrollment and degree verifications on-line at www.degreechek.com. UCF has contracted with Credentials, Inc. to provide current enrollment, degree and past attendance verifications on-line 24 hours a day, seven days a week. Credentials, Inc. Customer Service is available at 1-847-446-1027, ext. 104 between 8:30 a.m. and 5:00 p.m. CST/CDT Monday through Friday.

Withdrawal Policy

Withdrawal for each term begins after "Late Registration and Add/Drop" ends. Students may withdraw from a class and receive the notation of "W" until the date noted in the "Academic Calendar" online at http://www.ucf.edu/toplinks/academic_calendar.html. A student may withdraw from courses using POLARIS at https://connect.ucf.edu, or by visiting the Registrar's Office (MH 161), certain college advising offices, or an area campus records office. Students may withdraw by fax at 407-823-5652. Faxed requests must be received by 5:00 p.m. on the last day to withdraw and must include the student's identification number, the course(s) to be dropped and his or her signature. Students also may send a written request to the Registrar's Office by mail (to P.O. Box 160114, Orlando, FL 32816-0114). This letter must be time-stamped or postmarked before the published withdrawal dead-

line and must include the student's identification number, the course(s) to be dropped and his or her signature. Students seeking to withdraw in person must sign the request and must provide photo-identification. The official date of withdrawal is the date the University receives the withdrawal request. Requests received by mail are processed using the postmark as the official date of withdrawal.

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

No withdrawal is permitted after the deadline except in extraordinary circumstances such as serious medical problems. Unsatisfactory academic performance is not an acceptable reason for withdrawal after the deadline. Students seeking to petition for a late withdrawal should consult Academic Services (MH 210). At the time of the request, Academic Services will ascertain from the instructor whether the student was passing or failing the course. If the student was passing, a "WP" will be recorded on the student's permanent record; if failing, a "WF" will be entered. Medical and late withdrawals normally are for all courses taken in the semester.

Students who seek late withdrawal because they are ill must apply for the withdrawal within six months of the term from which the withdrawal is sought. Students seeking a late withdrawal because of medical conditions must follow the medical withdrawal procedure. The student's physician provides the University with the appropriate medical information, using the forms available in the Office of Academic Services. A medical withdrawal must be for all classes in the term.

If a medical withdrawal is approved, a "WM" will be recorded for each course. Students who receive a medical withdrawal may be placed on hold until the University can determine that the student is ready to return. If a medical withdrawal is not approved, the request may be approved as a late withdrawal and grades of "WP" or "WF" will be recorded. A grade of "WF" will affect the calculation of the student's grade point average.

Following the close of Late Registration and Add/Drop each term, students withdrawing from courses will incur both grade and fee liability. Students with circumstances determined by the University to be exceptional and beyond their control may apply for a cancellation of enrollment and an elimination of fee liability. Exceptional circumstances include, but are not limited to sickness, death, involuntary call to military service, or administrative errors created by the University. Students must submit a petition and all supporting documentation for a Late Drop of courses to Academic Services (MH 210; 407-823-2691) within six months of the end of the semester for which the Late Drop is sought.

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

Withdrawal and Academic Behavior Violations

Should an alleged violation of academic behavior standards arise before the withdrawal deadline in a term, the instructor shall notify the unit head who will notify the University Registrar that the student shall not be withdrawn from the course in question. Only a written release from the instructor of the authorized party deciding a student appeal will permit withdrawal. However, if the student appeals the academic action and desires to withdraw from the course, the process shall be initiated by the student immediately in the normal University manner. Such withdrawal requests will be held in abeyance until a ruling on an appeal is obtained. If 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>Grades</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>B+</td>
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<td></td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
<td></td>
</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>C+</td>
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</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>D+</td>
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<td></td>
</tr>
<tr>
<td>D</td>
<td>1.00</td>
<td></td>
</tr>
<tr>
<td>D-</td>
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<td></td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
<td></td>
</tr>
</tbody>
</table>

NC = No Credit

* 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>I</th>
<th>Incomplete</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>No grade reported by instructor</td>
<td></td>
</tr>
<tr>
<td>(followed by grade)</td>
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<td></td>
</tr>
<tr>
<td>R</td>
<td>Repeated course (Grade Forgiveness)</td>
<td></td>
</tr>
<tr>
<td>S</td>
<td>Satisfactory (w/credit)/Satisfactory Progress</td>
<td></td>
</tr>
<tr>
<td>(Research, Thesis, or Dissertation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>T</td>
<td>(followed by grade) Subsequently repeated (no credit)</td>
<td></td>
</tr>
<tr>
<td>U</td>
<td>Unsatisfactory (no credit)</td>
<td></td>
</tr>
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</tr>
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<td>Withdrawn Passing</td>
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</tr>
<tr>
<td>X</td>
<td>Audit (no credit)</td>
<td></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.** The GPA for graduation requirement is a minimum UCF 2.0 ("C").

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

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

| Course #1 | B+ | 3 semester hours X 3.25 grade points = 9.75 |
| Course #2 | A- | 3 semester hours X 3.75 grade points = 11.25 |
| Course #3 | A  | 4 semester hours X 4.00 grade points = 16 |
| Course #4 | B  | 3 semester hours X 3.00 grade points = 9 |
|          |    | = 13 semester hours 46 |
|          |    | total grade points |

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

\[ \frac{46.00 \text{ total grade points}}{13 \text{ semester hours}} = 3.54 \text{ GPA for that term.} \]

#### 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 \((162 + 46) / (54 + 13) = 3.10.\)

The designation of “N” will be assigned temporarily by the Registrar’s Office only in the case when a grade has not been submitted by the faculty by the grade submission deadline. The designator will be replaced by the earned letter grade at the earliest opportunity in the term that immediately follows. 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](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 verified 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 WDSG 123B; 407-823-3761.

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

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

**Student Conduct**

Students are subject to federal and state laws and local ordinances as well as regulations prescribed by the University of Central Florida and the Florida Board of Governors. The breach or violation of any of these laws or regulations may result in disciplinary action. Detailed conduct regulations and procedures are presented in *The Golden Rule*.

A person applying for admission to UCF 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. All post-baccalaureate students are considered as non-degree undergraduates for all University policies and procedures.

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

**Other Student Classifications:**

- **Auditor**: A student registered for any credit course who is not seeking credit.
- **Co-op Student**: A student enrolled in the Center for Cooperative Education and Applied Learning Program remains a registered student during all off-campus assignment semesters. Furthermore, there is no lapse in continuity in the co-op academic calendar: a co-op student either is on assignment or attending class during each term.
- **Special Student**: A student of demonstrated academic ability who does not meet the regular requirements for admission (Early Admission, non degree-seeking, transient, and auditor)
- **Temporary**: A student who applied before the deadline and who is permitted to register and attend class pending completion of the admission file
- **Transient**: Students temporarily registered (for one semester) at UCF with the approval of another university or college where they are regularly enrolled, or a UCF student temporarily in attendance at another university or college, with the approval of UCF. A UCF student may not be enrolled as a transient student in another institution during the term in which the baccalaureate degree or the A.A. degree is to be awarded.

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

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

**Academic Honors**

**President’s Honor Roll Certificate**

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 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 total record will be reviewed and action on readmission will be taken by the University Registrar. When the University Registrar cannot 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/portal/academic_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 until and must apply to the college applying admission 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 “reinstatement 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
Standards Committee will advise the appellant of its decision, which whether or not to review its original decision. The Admissions and Standards Committee will 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 decision 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 improve the level of academic achievement and the approval of the AREC. The committee shall review each applicant’s academic potential and current status and determine conditions for the individual’s degree of continued participation in intercollegiate athletic activities.

Name Changes

To change the legal name maintained on the student’s official UCF record, the student must submit a completed “Change of Name” form and supporting documentation to the appropriate UCF office. Attach to the form a copy of a legal name change document (e.g., marriage certificate, divorce decree, etc.). Undergraduate students must submit the form to the Registrar’s Office (MH 161). Graduate students must submit the form to the Graduate Studies Office (MH 230). Current UCF employees and those students who have been UCF employees within twelve months of the date the name change is requested must submit the form to the Human Resources Office (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 student’s responsibility to make appropriate changes to the address. “Address Changes” 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.
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." For 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 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 office 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 will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed;

2. The 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 changed, and specify why the record is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of the right to a hearing;

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 who performs 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, Sections 229.093, 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/~ensrvc/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, IB, correspondence, CLEP, University Credit by Examination, and University Credit by Examination will be accepted by the University for application toward an undergraduate degree. Credit earned by acceleration mechanisms also applies toward satisfaction of the Summer Attendance Requirement.
### ADVANCED PLACEMENT EXAMS

<table>
<thead>
<tr>
<th>Exam</th>
<th>Score of 3</th>
<th>GEP Usage</th>
<th>Score of 4</th>
<th>Score of 5</th>
<th>GEP Usage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Art History</td>
<td>ARH 1000</td>
<td>ARH 2050 and 2051</td>
<td>Same as 4</td>
<td>CUL &amp; HIS Found 2</td>
<td></td>
</tr>
<tr>
<td>Biology</td>
<td>BSC 1005/1005L</td>
<td>SCI Found 2</td>
<td>Same as 3</td>
<td>BSC 2010C and BSC 2010C</td>
<td>SCI Found 2</td>
</tr>
<tr>
<td>Calculus AB</td>
<td>MAC 2311</td>
<td>MAT Found 1</td>
<td>Same as 3</td>
<td>MAT Found 1</td>
<td></td>
</tr>
<tr>
<td>Calculus BC</td>
<td>MAC 2311</td>
<td>MAC 2311 and 2312</td>
<td>Same as 4</td>
<td>MAT Found 1</td>
<td></td>
</tr>
<tr>
<td>Chemistry</td>
<td>CHM 1020 &amp; 1020L</td>
<td>SCI Found 1</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
<td></td>
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<tr>
<td>Computer Science A</td>
<td>CGS 1075</td>
<td>MAT Found 2</td>
<td>Same as 3</td>
<td>SCI Found 2</td>
<td></td>
</tr>
<tr>
<td>Computer Science AB</td>
<td>CGS 1076</td>
<td>MAT Found 2</td>
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<td>SCI Found 2</td>
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<tr>
<td>Economics: Macro</td>
<td>ECO 2013</td>
<td>SOC Found 1</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
<td></td>
</tr>
<tr>
<td>Economics: Micro</td>
<td>ECO 2023</td>
<td>SOC Found 1</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
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</tr>
<tr>
<td>English Language and Composition</td>
<td>ENC 1101</td>
<td>COM Found 1</td>
<td>Same as 4</td>
<td>COM Found 1</td>
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</tr>
<tr>
<td>English Literature and Composition</td>
<td>ENC 1101</td>
<td>COM Found 1</td>
<td>Same as 4</td>
<td>COM Found 1</td>
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<tr>
<td>Environmental Science</td>
<td>ISC 1051</td>
<td>SCI Found 2</td>
<td>Same as 3</td>
<td>SCI Found 2</td>
<td></td>
</tr>
<tr>
<td>European History</td>
<td>EUH 1009</td>
<td>EUH 2000 and 2001</td>
<td>Same as 4</td>
<td>CUL &amp; HIS Found 1</td>
<td></td>
</tr>
<tr>
<td>Government and Politics: Comparative</td>
<td>CPO 1002</td>
<td>Same as 3</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
<td></td>
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<tr>
<td>Government and Politics: United States</td>
<td>4041</td>
<td>SCI Found 1</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
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<tr>
<td>Music Theory</td>
<td>MUT 1001</td>
<td>SCI Found 2</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
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<tr>
<td>Physics B</td>
<td>PHY 2053C</td>
<td>SCI Found 1</td>
<td>Same as 3</td>
<td>SCI Found 1</td>
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</tr>
<tr>
<td>Physics C: Electricity / Magnetism</td>
<td>PHY 2054C</td>
<td>SCI Found 1</td>
<td>Same as 4</td>
<td>SCI Found 1</td>
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<tr>
<td>Psychology</td>
<td>PSY 2012</td>
<td>SOC Found 2</td>
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<td>SCI Found 2</td>
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<tr>
<td>Statistics</td>
<td>STA 2014</td>
<td>MAT Found 2</td>
<td>Same as 3</td>
<td>SCI Found 2</td>
<td></td>
</tr>
<tr>
<td>Studio Art: Drawing Portfolio</td>
<td>No direct equivalent</td>
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<td>Same as 3</td>
<td>SCI Found 2</td>
<td></td>
</tr>
<tr>
<td>Studio Art: 2-D Design Portfolio</td>
<td>No direct equivalent</td>
<td>SCI Found 1</td>
<td>Same as 3</td>
<td>SCI Found 2</td>
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<tr>
<td>Studio Art: 3-D Design Portfolio</td>
<td>No direct equivalent</td>
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<td>Same as 3</td>
<td>SCI Found 2</td>
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<tr>
<td>United States History</td>
<td>AMH 1000</td>
<td>AMH 2010 and 2020</td>
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<tr>
<td>World History</td>
<td>WOH 2022</td>
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<td>Same as 3</td>
<td>CUL &amp; HIS Found 1</td>
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</table>

### INTERNATIONAL BACCALAUREATE

<table>
<thead>
<tr>
<th>Exam</th>
<th>4 (Diploma holders only)</th>
<th>GEP Usage</th>
<th>5 (Higher-Level only for non-diploma holders; either Standard or Higher Level for diploma holders)</th>
<th>GEP Usage</th>
<th>6-7 (Higher-Level only for non-diploma holders; either Standard or Higher Level for diploma holders)</th>
<th>GEP Usage</th>
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</thead>
<tbody>
<tr>
<td>Biology</td>
<td>BSC 1005/1005L</td>
<td>SCI Found 2</td>
<td>BSC 1005/1005L and BSC 2010C</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
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<tr>
<td>Chemistry</td>
<td>CHM 1020 &amp; 1020L</td>
<td>SCI Found 1</td>
<td>CHM 1020/1020L and CHM 2045C</td>
<td>SCI Found 1</td>
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<td>SCI Found 1</td>
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<tr>
<td>Computer Science</td>
<td>CGS 1075</td>
<td>MAT Found 2</td>
<td>CGS 1075 (6 Credits)</td>
<td>MAT Found 2</td>
<td>MAT Found 2</td>
<td>MAT Found 2</td>
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<tr>
<td>Design Engineering</td>
<td>ETI 1410</td>
<td>MAT Found 2</td>
<td>ETI 1410 (6 Credits)</td>
<td>MAT Found 2</td>
<td>MAT Found 2</td>
<td>MAT Found 2</td>
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<tr>
<td>Economics</td>
<td>ECO 1000</td>
<td>COM Found 1</td>
<td>ECO 1000 and ECO 2023</td>
<td>SCI Found 1</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 2</td>
<td>ENC 1101 and ENC 1102</td>
<td>SCI Found 1</td>
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<td>Environmental Systems</td>
<td>ISC 1050</td>
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<td>ISC 1050 (6 credits)</td>
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<td>Further Mathematics</td>
<td>MHF 1202</td>
<td>SCI Found 2</td>
<td>MHF 1202 and MHF 1209</td>
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<td>Geography</td>
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<td>SCI Found 2</td>
<td>GEO 1200 and GEO 1400</td>
<td>SCI Found 2</td>
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<tr>
<td>History</td>
<td>WOH 1030</td>
<td>CUL &amp; HIS Found 1</td>
<td>WOH 1030 and WOH 1999</td>
<td>CUL &amp; HIS Found 1</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>MAC 1105 and MAC 1140</td>
<td>MAT Found 1</td>
<td>MAT Found 1</td>
<td>MAT Found 1</td>
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<tr>
<td>Math Studies</td>
<td>MAT 1053</td>
<td>MAT Found 1</td>
<td>MAT 1053 and MGF 1056</td>
<td>MAT Found 1</td>
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<td>MAT Found 1</td>
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<tr>
<td>Mathematics</td>
<td>MAC 1147</td>
<td>MAT Found 1</td>
<td>MAC 1147 and MAC 233</td>
<td>CUL &amp; HIS Found 2</td>
<td>CUL &amp; HIS Found 2</td>
<td>CUL &amp; HIS Found 2</td>
</tr>
<tr>
<td>Music</td>
<td>MUL 2010</td>
<td>CUL &amp; HIS Found 2</td>
<td>MUL 2010 and MUL 1999</td>
<td>CUL &amp; HIS Found 2</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>Same as 4</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
</tr>
<tr>
<td>Physics</td>
<td>PHY 1020C</td>
<td>SCI Found 1</td>
<td>PHY 1020C and PHY 1009</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
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<tr>
<td>Psychology</td>
<td>PSY 2012</td>
<td>SCI Found 2</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
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<tr>
<td>Social Anthropology*</td>
<td>ANT 2410</td>
<td>SCI Found 2</td>
<td>SCI Found 2</td>
<td>SCI Found 1</td>
<td>SCI Found 1</td>
<td>SCI Found 1</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 2200) 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. 6 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 (3 credits) should be awarded for a score of 3 or higher.

AP Latin: Vergil

LNW 3560

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 in high school. Students who have participated in the International Baccalaureate program may receive a maximum of 30 hours of credit for scores of four or higher in the subsidiary and higher level program in high school. See Table, page 60.

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 literature or language for scores 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 literature for scores 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).

<table>
<thead>
<tr>
<th>COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;C&quot;-level pass.</td>
</tr>
<tr>
<td>-----------------</td>
</tr>
<tr>
<td>Accounting, Principles of</td>
</tr>
<tr>
<td>Algebra, College</td>
</tr>
<tr>
<td>Algebra-Trigonometry, College</td>
</tr>
<tr>
<td>American Government</td>
</tr>
<tr>
<td>American Literature</td>
</tr>
<tr>
<td>Biology, General</td>
</tr>
<tr>
<td>Business Law, Introduction to</td>
</tr>
<tr>
<td>Calculus with Elementary Functions</td>
</tr>
<tr>
<td>Chemistry, General</td>
</tr>
<tr>
<td>Educational Psychology, Introduction to</td>
</tr>
<tr>
<td>English Composition with Essay</td>
</tr>
<tr>
<td>English Literature</td>
</tr>
<tr>
<td>History of the United States I: Early Colonizations to 1877</td>
</tr>
<tr>
<td>History of the United States II: 1865 to Present</td>
</tr>
<tr>
<td>Human Growth and Development</td>
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<tr>
<td>Information Systems and Computer Applications</td>
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<tr>
<td>Macroeconomics, Principles of</td>
</tr>
<tr>
<td>Management, Principles of</td>
</tr>
<tr>
<td>Marketing, Principles of</td>
</tr>
<tr>
<td>Mathematics, College</td>
</tr>
<tr>
<td>Microeconomics, Principles of</td>
</tr>
<tr>
<td>Psychology, Introductory</td>
</tr>
<tr>
<td>Sociology, Introductory</td>
</tr>
<tr>
<td>Trigonometry</td>
</tr>
<tr>
<td>Western Civilization I: Ancient Near East to 1648</td>
</tr>
<tr>
<td>Western Civilization II: 1648 to Present</td>
</tr>
</tbody>
</table>
Credit is awarded for scaled scores of 50 or higher on computer-based CLEP exams taken after July 1, 2001. A percentile score of 50 or higher is required on CLEP examinations taken prior to July 1, 2001. CLEP credit may be earned by CLEP subject examinations. Successful completion of CLEP examinations means performance at or above the minimum qualifying score. CLEP credit cannot be used to reduce a grade point deficiency. For example, CLEP cannot be substituted for a grade awarded for a previously completed course. CLEP may not be used to fulfill the senior institution requirements.

Awards 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 or equivalent level (generally numbered 1120-1121). No literature credit should be awarded for CLEP foreign language exams.

### 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 Advisor in the assessment of AP, IB, and similar credit and in the selection of appropriate CLEP exams. The Bright Futures requirement does not apply to transfer students from community colleges or four-year universities.

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>C</td>
<td></td>
</tr>
<tr>
<td>Criminal Justice</td>
<td>CCJ 1000</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Environment and Humanity</td>
<td>EVR 1017</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Foundations of Education</td>
<td>EDF 1000</td>
<td>C</td>
<td></td>
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<tr>
<td>Fundamentals of Counseling</td>
<td>PCO 1202</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Here's to Your Health</td>
<td>HSC 1100</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Human Resources Management</td>
<td>MAN 1300</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Human/Cultural Geography</td>
<td>GEO 1400</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Introduction to Business</td>
<td>GEB 1011</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Introduction to Law Enforcement</td>
<td>CCJ 1000</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Lifespan Developmental Psychology</td>
<td>DEP 2004</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Money and Banking</td>
<td>BAN 1501</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Physical Geology</td>
<td>GLY 1000</td>
<td>SCI Found 2</td>
<td>C</td>
</tr>
<tr>
<td>Principles of Financial Accounting</td>
<td>ACG 1001</td>
<td>C</td>
<td></td>
</tr>
<tr>
<td>Principles of Physical Science I</td>
<td>PSC 1121</td>
<td>SCI Found 1</td>
<td>B</td>
</tr>
<tr>
<td>Principles of Statistics</td>
<td>STA 1014</td>
<td>MAT Found 2</td>
<td>C</td>
</tr>
</tbody>
</table>

EXCELSIOR COLLEGE EXAMINATIONS TABLE

<table>
<thead>
<tr>
<th>Exam Title</th>
<th>Course Number</th>
<th>GEP Usage</th>
<th>Passing grade for credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Abnormal Psychology</td>
<td>CLP 1140</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>English Composition</td>
<td>ENC 1101 for C</td>
<td>COM Found 1</td>
<td>C</td>
</tr>
<tr>
<td>ENC 1101/1102 for B</td>
<td>COM Found 1</td>
<td>B</td>
<td></td>
</tr>
<tr>
<td>Ethics: Theory and Practice</td>
<td>PHI 1630</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Foundations of Gerontology</td>
<td>GEY 1000</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Human Resources Management</td>
<td>MAN 1300</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>Life Span Developmental Psychology</td>
<td>DEP 2004</td>
<td></td>
<td>B</td>
</tr>
<tr>
<td>Microbiology</td>
<td>MCB 1000</td>
<td></td>
<td>C</td>
</tr>
</tbody>
</table>
International Studies and Programs
Director: Mathilda E. Harris; 407-882-2300; Fax: 407-275-4386; Research Pavilion, Suite 283, 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 curricula 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 education is to create a trans-national understanding of the social economic, 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, academic support, students, the community, funding, and external agencies.

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 policies;
- 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 experiences 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, Jonkoping, Malmardalen, 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 programs not offered directly by UCF. The SUS-wide study abroad programs 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 provides opportunities for students to gain professional practice by combining on-campus classroom study with real-world work experience.

Cooperative Education (Co-op) is an academic program and an integral part of the curriculum at UCF, available to students on all campuses 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 academic departments and employers locally, nationally, and internationally.

Co-op students participate for multiple terms in structured, progressively 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 graduation.

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 160960, Orlando, FL 32826-0950; 407-882-0260; Fax: 407-882-0244

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

Center for Multilingual Multicultural Studies
Director: Myrna Creasman; Bldg #81; P.O. Box 163177, Orlando, FL 32816-3177; 407-823-5515; Fax: 407-823-5465

Using contemporary teaching methodology and computer-assisted instruction, the Center for Multilingual Multicultural Studies provides quality English language instruction for international students. Four
levels of instruction are offered which range from beginning to advanced, and special attention is given to preparing students for academic 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 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 application to economic education. 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 economics and business management. 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 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 nationally, 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...
Special Academic Programs and Research Institutes

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: fcll@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 support of expanded public/private dialogue on cooperative research and technical assistance, cultural exchange, enhancement of language training, and student/faculty exchange programs. The Institute is funded and administered through the Office of Academic Affairs and located in the College of Health and Public Affairs on the main campus. It promotes the development of linkage through expanded public/private dialogue on collaborative 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 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 collaborative 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, an affiliate of the Florida Institute of Government, is part of the College of Health and Public Affairs and provides training and technical assistance to state and local government, governmental associations, and non-profit organizations. Training workshops, certification programs, conferences, seminars, applied research projects, citizen surveys, strategic planning, and organizational development programs are among the services offered by the Institute.

Florida Solar Energy Center (FSEC)
Ken Sheinkopf, 1679 Clearlake Road, Cocoa FL 32922-5703; 321-638-1007; Fax: 321-638-1010;

The Florida Solar Energy Center is the largest and most active state-supported alternative energy research institute in the United States. Its facilities are located on the Cocoa campus of UCF at Brevard Community College. FSEC has gained national and international respect for its programs on photovoltaics, hydrogen from renewables, applied research projects, citizen surveys, strategic planning, and organizational development programs among the services offered by the Institute.

Florida Space Institute (FSI)
Ron Phillips, FSI, Kennedy Space Center, FL 32899; 321-452-9834; Fax: 321-452-4842; E-mail: fsiscaas@mail.ucf.edu; website: http://fisi.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, 3320 Progress Drive, Orlando, FL 32826-0544; 407-882-1300; Fax: 407-858-5059; 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/training
- Training and education
- Media convergence
- Embedded simulation
- Parallel computing

Laboratories, 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, mathematics, and related disciplines. The institute annually employs more
than 80 graduate and undergraduate students in a variety of research and support positions. For many outstanding graduates, IST is a 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) 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: Alyse 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. 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
- 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>Bachelor of Science (B.S.)</th>
<th>Actuarial Science, Biology, Chemistry, Digital Media, Forensic Science, Liberal Studies, Mathematics, Physics, Psychology, Social Sciences (interdisciplinary), Statistics</th>
</tr>
</thead>
</table>
| **Majors:**               | College of Business Administration Name of Minor
| Bachelor of Science in Business Administration (B.S.B.A.) | Accounting, Economics, Finance, General Business Administration, Management, Management Information Systems, Marketing |
| **Majors:**               | College of Education Name of Minor
| Bachelor of Science (B.S.) | Aerospace Engineering (B.S.A.E.), Civil Engineering (B.S.C.E.), Computer Engineering (B.S.E.E.), Computer Science (B.S.), Electrical Engineering (B.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.). |
| **Majors:**               | College of Health and Public Affairs Name of Minor
| Bachelor of Arts (B.A.)   | Communicative Disorders, Criminal Justice, Legal Studies, Public Administration |
| Bachelor of Science (B.S.) | 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 |
| Bachelor of Science in Nursing (B.S.N.) | Nursing |
| Bachelor of Social Work (B.S.W.) | Social Work |
| **Rosen School of Hospitality Management** | Nicholson School of Communication |
| Bachelor of Science (B.S.) | Hospitality Management, Restaurant and Foodservice Management |
| **Academic Minors** | Name of Minor
| College Awarding Minor* | African American Studies, American Studies, Digital Media Judaic Studies, Latin American |

*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, http://graduate.ucf.edu/currentGradCatalog/

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.

Advisees 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.

Prehealth Professions

The College of Arts and Sciences offers courses that fulfill admission requirements for professional schools in the Health Sciences. Refer to the Biology Preprofessional section for additional information.

Advisement

Office of Academic Support and Information Services (OASIS)

http://www.oasis.ucf.edu

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: Eliott Vittes; 407-823-2745

Latin American Studies - Contact: Arlen Chase; 407-823-2124

Judaic Studies - Contact: Moshe Pell; 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

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<tr>
<th>Title</th>
<th>Degree</th>
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<td>Advertising/Public Relations</td>
<td>BA</td>
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<td>African-American Studies</td>
<td>Minor</td>
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<tr>
<td>American Studies</td>
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<tr>
<td>Animation</td>
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<td>Anthropology</td>
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<tr>
<td>Art</td>
<td>BA, BFA, Minor</td>
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<tr>
<td>Asian Studies</td>
<td>Minor</td>
</tr>
<tr>
<td>Biology</td>
<td>BS, MS, Minor</td>
</tr>
<tr>
<td>Biomolecular Sciences</td>
<td>PhD</td>
</tr>
<tr>
<td>Chemistry</td>
<td>BS, MS, Minor</td>
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<tr>
<td>Cinema Studies (Film)</td>
<td>BA, Minor</td>
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<tr>
<td>Communication</td>
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<td>Community Arts - PAVE</td>
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<td>Digital Media</td>
<td>BA, BS, Certificate, Minor</td>
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<td>Economics</td>
<td>BA, BA/MAE, Accelerated</td>
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<tr>
<td>English</td>
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<tr>
<td>English as a Second Language</td>
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<td>Film</td>
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<tr>
<td>Foreign Language Combination</td>
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<td>Forensic Science</td>
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<td>French</td>
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<tr>
<td>German</td>
<td>Minor</td>
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<tr>
<td>History</td>
<td>BA, MA, Accelerated MA, Minor</td>
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<tr>
<td>Humanities</td>
<td>BA, Minor</td>
</tr>
<tr>
<td>Interpersonal Communication</td>
<td>BA, Minor</td>
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<td>Italian</td>
<td>Minor</td>
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<tr>
<td>Jazz Studies</td>
<td>Certificate</td>
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<tr>
<td>Journalism</td>
<td>BA, Certificate, Minor</td>
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<tr>
<td>Judaic Studies</td>
<td>Minor</td>
</tr>
<tr>
<td>Latin-American Area Studies</td>
<td>BA</td>
</tr>
<tr>
<td>Liberal Arts</td>
<td>BS, MS, Accelerated</td>
</tr>
<tr>
<td>Liberal Studies</td>
<td>Minor</td>
</tr>
<tr>
<td>Magazine Journalism</td>
<td>Minor</td>
</tr>
</tbody>
</table>
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
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Statistics
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Translation and Interpretation
Women's Studies

Departments and Programs

African-American Studies: Program
http://www.cas.ucf.edu/africanamericanstudies
Director: Dr. JoAnne Stephenson; CNH 201G; 407-823-0026
Email: aas@ucf.edu

The College of Arts and Sciences offers a minor in African-American Studies, which gives students the opportunity to explore the African American experience from an interdisciplinary perspective. The program is designed to enhance and complement the student's major area of study, providing an overview of the main currents in African American arts, history, and culture. Courses in Caribbean Studies are also available to students. Each summer the Caribbean Study Abroad Program offers students the opportunity to study and explore cultures and societies of the Caribbean.

Degrees: None
Tracks: None
Minors: African-American Studies

American Studies: Program
Contact: Liberal Studies Advising Team CNH 201; 407-823-0144

The College of Arts and Sciences offers a minor in American Studies. This program requires students to select relevant electives from literature, humanities, social sciences and history.

Degrees: None
Tracks: None
Minors: American Studies

Anthropology
(Society and Anthropology)

Art: Department
http://reach.ucf.edu/~art
E-mail: art@ucf.edu
Chair: Madison K. Francis; VAB 117; 407-823-2676
Faculty: Abbas, Abraham, Banks, Burkhart, Chadva, Congdon, Francis, Gaudnek, Gonzalez, Hall, Haran, Haxton, Kim, Martin, Ponderzie, Reddy, Rivers

The Department of Art has 15 full-time and 9 part-time faculty members teaching studio arts, graphic design, and art history. The curriculum in Art provides professional preparation in art history, and in the studio concentrations of animation, ceramics, drawing, fibers and fabrics, graphic design, painting, photography, printmaking, and sculpture. A Bachelor of Arts is offered in art history and both the Bachelor of Arts and the Bachelor of Fine Arts degrees are offered in the studio specializations. Competitive scholarships and awards are available to currently enrolled full-time UCF art majors through portfolio reviews by faculty. These awards are sponsored by UCF and the Altrusa Club of Winter Park.

Degrees: Art (BA, BFA)
Tracks: Animation, Art History, Studio Art
Minors: Art History, Studio Art

Asian Studies: Program
Acting Director: Houman Sadri; 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: Ehrhart, Kuhn, Morrison-Shelton, Noss, Osborne, Parkinson, Shetlari, Snelson, Sotero, Stout, Sweet, Taylor, Thomas, Vajravelu, Vickers, von Kalm, Walters, Waterman, Weishampel, Whittier, Worthy, Professors Emeritus Ellis and Koenning

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: Ballantyne (Forensic Science), Beifeld, Claussen, Elsheimer, 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, Betz, 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, Tanz, 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 presentation 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
E-mail: english@ucf.edu
Chair: TBA; CNH 301; 407-823-2212

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 Moschell; 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.cc.ucf.edu/~florang
E-mail: foreignlanguages@ucf.edu
Chair: C. Stebbins; CNH 523; 407-823-2472
Faculty: Barberet, Barsch, Cervone, Deck, Del-Rio, DiPierro, Fabery, Fernández, Ferro, Forsle, Giannandrea, Koro, Leticié, López, Martinez, Nalbone, Puch, Redmon, Rivera, Stebbins, Taylor, Villanueva. Micarelli (Professor Emeritus)

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), 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 Kamara; 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: lis@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)

The Liberal Studies Program offers students the opportunity to pursue an interdisciplinary study 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, Danieleyan, 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

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, Danieleyan, 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
Music: Department
http://pegasus.cc.ucf.edu/~ucfmusic
E-mail: music@ucf.edu
Chair: TBA; CNH 205; 407-823-2669, Fax 407-823-3378

Part-Time Faculty: Berger, Brett, Brownlow, Fox, Garrity, Hawkins, Hellhake, Hill, Krueger, Leung, Liao, Robertson, Swedberg, Threette, Ward, Wei

The Department of Music offers a Bachelor of Music 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

Philosophy: Department
http://wwwagas.ucf.edu/philosophy
E-mail: philosophy@ucf.edu
Chair: TBA; CNH 411; 407-823-2273
Faculty: Congdon, DiBernardo, Hawkins, Jaeger, Jones, Kassim, Park, Riser, Schippert, Stanlick, Strasser, VanHook

The Department of Philosophy offers a Philosophy major and a Humanities major, with tracks in multicultural Humanities and in Religious Studies, as well as minors in Philosophy, Humanities, Religious Studies, and 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

Physics: Department
http://www.physics.ucf.edu
E-mail: physics@ucf.edu

Chair: TBA; CNH 411; 407-823-2273
Associate Chair: Lee Chow; MAP 315; 407-823-2335

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 ranging from research in the sciences, engineering, and technology to careers in teaching at all levels. The Department of Physics majors benefit from small class sizes, and are encouraged to be involved in individually designed senior projects working with a faculty advisor.

The Department’s research programs include optics and lasers, condensed matter physics, complex systems, biophysics, atomic and molecular physics, nanostructures, and space science. The Department of Physics also offers a Master of Science degree and a Doctor of Philosophy degree.

Degrees:
- Physics (BS, MS, PhD)

Tracks:
- General Physics, Materials Physics, Optics and Lasers, Computational Physics, Astronomy

Minors:
- Astronomy, Physics

Political Science: Department
http://pegasus.cc.ucf.edu/~politics
E-mail: politics@ucf.edu
Chair: R. Handberg; CNH 415; 407-823-2608

The Department of Political Science seeks to:
1. Provide students with a broad background for careers in foreign and domestic public service and in the private sector where a knowledge of government and politics is necessary.
2. Provide students with a broad background in pre-law to facilitate their admission to law school.
3. Prepare students for teaching, research, and graduate study in Political Science.
4. Provide a broad background for careers in politics; and
5. Educate citizens and promote their active interest in public affairs.

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 Students: Contact Houman A. Sadri.
- Space Studies: Contact Roger Handberg
- Women's Studies: Contact Terri S. Fine or Joyce Lille.

Degrees:
- Political Science (BA, MA), Economics (BA)

Tracks:
- American Politics, International Relations, Comparative Politics, Prelaw

Minors:
- Political Science, Political Science/Prelaw

Psychology: Department
http://pegasus.cc.ucf.edu/~psych
E-mail: psychology@ucf.edu
Chair: J. McGuire; PH 302B; 407-823-2216
Associate Chair: W. Wooten, PH 305E; 407-823-2216

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 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 math-related requirements as well as additional courses in psychology research and statistical methods.

Degrees:
- Psychology (BA, BS, MA, MS, PhD)

Tracks:
- None

Minors:
- Psychology
Degrees
Satisfactory completion of the program leads to the Bachelor of Science and to better understand the relationships between those fields. The Social Sciences program offers students an opportunity to become acquainted with the various fields of the Social Sciences 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 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, Rusnok, 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 intensively 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
Dean: Allyn MacLean Stearman; The Burnett Honors College; 407-823-2076; Fax 407-823-6583
Associate Dean: Alvin Wang
Director of Student Services: Madi Dogariu
Director of Computer Operations: Andrew Holloway
Director of Honors Student Affairs: Jill Painter
Director of Advising: Peter Wallace
Director of Student Development: TBA
http://www.honors.ucf.edu

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 3</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.
University Honors Upper-Division Program Requirements: College of Business Administration
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) (Equivalent to BUL 3130)
   - GEB 4361H Honors Business in the International Environment (3 hours) (Equivalent to GEB 4361)
   - MAR 3022H Honors Marketing (3 hours) (Equivalent to MAR 3023)
   - FIN 3403H Honors Business Finance (3 hours) (Equivalent to FIN 3403)
   - ISM 3011H Honors Management Information Systems (3 hours) (Equivalent to ISM 3011)
   - MAN 3025H Honors Management of Organizations (3 hours) (Equivalent to MAN 3025)

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* outside the student’s department of major (although it may be within the College of Engineering and Computer Science) (3 hours)
2. Complete one of the following two-semester sequences according to the student’s chosen major:
   - 6 hours
   - Students majoring in Electrical, Computer, or Industrial Engineering will take:
     - STA 3022H Probability and Statistics for Engineers (3 hours)
     - EGN 3312H Principles of Electrical Engineering (3 hours)
     - All other engineering students will take:
       - EGN 3310H Engineering Analysis—Statics (3 hours)
       - EGN 3321H Engineering Analysis—Dynamics (3 hours)
       - 3. Complete the Honors Engineering Seminar (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) outside student’s department of major (within or outside COHPA).
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 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 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 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 coursework 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 must include 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 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 coursework 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 must include 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.
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:

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEB 3031</td>
<td>Cornerstone</td>
</tr>
<tr>
<td>GEB 3356</td>
<td>Introduction to International Business</td>
</tr>
<tr>
<td>BUL 3130</td>
<td>Legal and Ethical Environments of Business</td>
</tr>
<tr>
<td>ECO 3411</td>
<td>Quantitative Business Tools II</td>
</tr>
<tr>
<td>FIN 3403</td>
<td>Business Finance</td>
</tr>
<tr>
<td>MAN 3025</td>
<td>Management of Organizations</td>
</tr>
<tr>
<td>ISM 3011</td>
<td>Essentials of Management Information Systems</td>
</tr>
<tr>
<td>MAR 3023</td>
<td>Marketing</td>
</tr>
<tr>
<td>MAN 4720</td>
<td>Strategic Management</td>
</tr>
</tbody>
</table>

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.
College of Business Administration

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 2101), ACG 2071, ECO 2023, ECO 2071, Mac 2233, STA 2023, STA 2023, and STA 2023. 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 both 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 will be transferred 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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Departments and Programs

School of Accounting

Director: A. Judd; BA 437; 407-823-2871
Assistant to Director: S. Smith; BA 438; 407-823-5678

Faculty: Bailey, Bandy, Bobek, Dillard, Dwyer, Evans, Goldwater, Johnson, Judd, Kellinier, Klintworth, Mahoney, Potts, Roberts, Roush, J. Salter, M. Salter, Savage, Smith, Vaugann, 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, Hofler, Hosni, Im, Lee, Martin, McHone, Mikhail, Milton, Moore, Pennington, Rungel, Serogin, Soksin, White, Xavier
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, Dalyymple, Frye, Gilkeson, Greene, McQuillen, 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
Minors: 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 advisement in the Department of Economics. An academic advisor will be assigned to assist each student in developing a meaningful program of study.

Degrees: General Business (BSBA, MBA, Ph.D)
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, Huseman, F. Jones, Keon, 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, Szymbanski, Thienel, 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...
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 Information Systems Track (MSM/MIS)

Minors:
- Management Information Systems

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.

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.
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.
College Of Education

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 fingerprinting 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; 407-823-2479
Faculty: Ackley, Allen, Bailey, Becker, Boote, Condly, Deets, Gregory, Hewitt, Hiett, Holt, Hutchinson, Johnson, Kaplan, Koger, Loudemilk, 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, Bollet, Casado, Cross, Daire, Englhardt, 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 Tomei; ED building, 2nd floor; 407-823-0523
Faculty: Armstrong, Baumbach, Blair, Brewer, Brumbaugh, Buchoff, Camp, Circle, Cohn, Cornett V., Crawford, Dixon, Dombrowski, Duke, DuVall, Everett, Fisher, Frazee, Gaudelli, Gergley, Herold, Higginbotham, Hudson, Hynes, Jeannepierre, Joels, Kazoroski, Lee, Mills, Mitchell, Neville, Ortiz, Ousley, Pagan, Palmer, Redmond, Renner, Roberts, Rohter, Romjue, Schulte, Seeley, Siebert, Sneener, Torbert, Verker, Ware, West, Wienke C., Williams, Zygoris-Coe

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. Wanielista; 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
Associate 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 BSAE
Civil Engineering BSCE
Civil Engineering - Construction Engineering Concentration BSEE
Computer Engineering BSCpE
Computer Engineering - Software Engineering Concentration BS
Electrical Engineering BS
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 BS
Mechanical Engineering - Energy Systems Concentration BSME
Mechanical Engineering - Mechanical Systems Concentration BSME
Mechanical Engineering - Materials Concentration BSME

UCF
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 Vision
The college of Engineering and Computer Science (CECS) at the University of Central Florida will be recognized nationally and globally for undergraduate and graduate education, research and partnership. A quality, diverse faculty and student body working other disciplines, will achieve high standards in all aspects of education, research and technology application. These accomplishments will take place in a College dedicated to diversity, attaining quality, resource expansion and partnerships throughout all of its operations and programs.

College Mission Statement
The mission of the College of Engineering and Computer Science is to provide an environment promoting the highest quality standards in all phases of its operations, processes, and management. 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.

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 also consider environmental, sociological, and other humanistic costs. A degree from the College of Engineering and Computer Science is also recognized as a valuable asset to those entering other professional pursuits such as the medical or law professions, architecture, education, the military professions, or even politics.

College Organization
The College of Engineering and Computer Science is organized into three major divisions: the Engineering and Computer Science Division, the Engineering Technology Division, and the Reserve Officer Training Corps (ROTC) Division. The Engineering and Computer Science Division is comprised of the School of Electrical Engineering and Computer Science (SEECS) and three engineering departments: the Civil and Environmental Engineering (CEE) Department, the Industrial Engineering and Management Systems (IEMS) Department, and the Mechanical, Materials and Aerospace Engineering (MMAE) Department. The School of Electrical Engineering and Computer Science is comprised of the 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 is made up of the Aerospace Studies Department (Air Force ROTC) and the Military Science Department (Army ROTC).

All components of the Engineering and Computer Science Division, except Information Technology, also offer advanced studies leading to 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 bachelor's degree concentrations in Design, Operation 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 (BSEET) 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 AROTC program offers a minor in Military Science.

The Honors Program in the College of Engineering and Computer Science
The engineering and computer science leaders of tomorrow must not only have impeccable technical credentials, but must also be able to provide strong leadership within the general community in which they live. With this in mind, the Honors Program in the College of Engineering and Computer Science offers outstanding undergraduate engineering, engineering technology, and computer science majors an enriched educational, technical, professional and cultural
experience that significantly augments the basic curricula. Honors students comprise academically superior students who commit, upon acceptance into the program, to do broad as well as advanced work in a chosen area.

The objective of the Honors Program is to provide exceptional students with an opportunity to express their creativity and problem-solving abilities through challenging coursework and participation in research projects. In addition, the program exposes students to a wide variety of issues dealing with the role of engineers and computer scientists and the impact of the profession on society. Honors students also participate in several programmed activities, such as lectures by distinguished scholars, engineers, and public figures, visits to local and regional industries and to governmental and military research facilities.

There are two programs available to eligible CECS students: 1) the University Honors Program (see the section on the University Honors Program found in The Burnett Honors College section of this catalog) and 2) the Honors in the Major Program (HIM).

The Honors in the Major Program
The College of Engineering and Computer Science Honors in the Major program is designed for two types of students: 1) Highly qualified students who did not participate in the University Honors Program and would like to have the experience of an Honors curriculum, and 2) University Honors Program students who desire to continue the Honors curriculum beyond what the University Honors Program offers. The centerpiece of the Honors in the Major program is the opportunity to undertake independent research as an undergraduate student 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://www.burnett.ucf.edu/~honors/](http://www.burnett.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/](http://www.cecs.ucf.edu/), and on the home pages of each department. For the home page associated with a particular program, see the listing for that department on the following pages of this catalog.

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

The Civil and Environmental Engineering Department (CEE) offers baccalaureate degrees in both Civil Engineering (BSCCE) and Environmental Engineering (BSEnE).

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-
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 represents 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 time to review the technical elective, and the specific design courses being taken by each student.

School of Electrical Engineering and Computer Science

Mission
The School of Electrical Engineering and Computer Science strives to create a high quality learning experience for our students. The principal goals include:
1. Provide a broad 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 Electrical 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:

1. Provide a broad engineering education to our graduates that will prepare them for both current and future professional challenges.
2. Provide 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.

The 24 hours represents two additional semesters of full time enrollment, and represents the minimum requirements for a second degree.

Additional notes:
1. 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.
2. Provide a professional engineering education that challenges our graduates to think critically and that will prepare them for a successful professional career.
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.

Electrical and Computer Engineering Programs
The Electrical and Computer Engineering 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 mission statement and objectives for the Computer Engineering and Electrical Engineering programs are electronically posted and continuously updated. More information on the Computer and Electrical Engineering programs can be found on the home page at [http://www.seecs.ucf.edu](http://www.seecs.ucf.edu).

**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 grant 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](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.seecs.ucf.edu](http://www.seecs.ucf.edu)) is a central point from which visitors may view current policies and procedures of our programs. In particular, links from this page provide up-to-date answers to frequently asked questions (FAQ’s) concerning academic advisement, student professional societies, undergraduate research opportunities, and means to effectively communicate concerns (complaints, 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, Hoekstra, Hosni, Kotnour, Kulonda, Lee, Malone, McCauley-Bell, Mollaghansem, 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. In the service sector, the industrial engineer is concerned with determining the most productive manner in which to deliver high-quality service to the customer. In government organizations the industrial engineer is active in assuring that tax payers receive maximum service for their tax dollars.

The Industrial Engineering approach is characterized by a systematic evaluation of alternatives using quantitative analysis, and computer simulations. As such, quantification and measurement play a key role in the day to day activities of the industrial engineer.

Engineering design experiences are incorporated into many of the required industrial engineering core courses. For instance, students learn how to apply the principles of engineering design to production systems and cost estimation in EIN 3354, to work methods and process flows in EIN 3314, and to facilities design and plant layout in EIN 4364. The design experience concludes with a real-world 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 life-long 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, Hagedoom, Ilgbusi, R. Johnson, Kapat, Kassab, Klemeny, K. Lin, Minardi, Mosley, Nayefeh, Nicholson, Peterson, Seai, Sohn, Suryanarayana, Vaidyanathan, Ventura, 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 mechanical engineering, 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 professional 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.

**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 providing the highest quality engineering programs and students. Through cooperative efforts with regional industry, our graduates will be well prepared for their role as mechanical engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be 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.

**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 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 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 Engineering Technology Department (ENT) is located in the Engineering Building, Room 207.)

**Chair:** R. Eagle

**Engr 207:** 407-823-5937, Fax 407-823-4746

**Assistant Chair:** A. Rahrooh; ENGR 212; 407-823-4749

**Assistant Chair:** R. Coowar; ENGR 207; 407-823-4741

**Faculty:** Coowar, Denning, Ducharme, Misconi, Morse, Motlagh, Osborne, Rahrooh, Rogers

**Mission**

The mission of the Engineering Technology program is to educate students to become professional technologists who meet the current needs of industry.

**Objectives**

1. Provide excellent curriculum content (e.g., math, science, and engineering technology principles, discipline-related topics and skills, and competencies in communication, problem solving, teamwork) to prepare students for professional practice in engineering technology.
2. Provide an educational program so graduates are successful in attaining professional employment.
3. Provide an excellent learning environment so the graduates are competitive with other BS Engineering Technology graduates from other U.S. institutions.
4. Provide educational content so graduates understand and value professional ethics, integrity, and diversity.

The mission statement and objectives for Engineering Technology are electronically posted and continuously updated. More information on the Engineering Technology programs can be found on the ENT Department home page at http://www.ent.ucf.edu.

**Bachelor of Science in Electrical Engineering Technology (BSET)**

**Coordinator:** Alireza 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/electronic engineering principles, and their application. Instruction and problem solving experiences are provided in both circuit and system aspects including computers, communications, controls and electrical power. The concentration in Computer Systems, while providing a firm foundation in electrical/electronics technology, also includes extensive instruction in programming, system design and analysis, and systems programming. Projects in solving real-world problems are required of all students in this concentration.

**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 BSEE 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.

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.
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 City, FL or Ellsworth AFB in Rapid City, SD. This course includes junior officer training, officer career orientation, and physical conditioning. Students enrolled in the four-year AFROTC program will attend a four-week summer course, normally upon completion of the General Military Course. A six-week summer course, which includes a modified version of the General Military Course, is required for students entering the two-year AFROTC program. These students must complete their summer training prior to their formal enrollment in the Professional Officer Course curriculum. These students need to contact the department early in the Fall prior to the Summer Field Training.

Officer 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 Christian, 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 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-requisite requirements for entering the Advanced Military Science phase.
B. Requisites 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-requisite 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) 290-6469. Students will participate in a Field Training Exercise (FTX) and will commission, if qualified, with Embry-Riddle.

Summer Training
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.
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: hpsinfo@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**

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<th>Major</th>
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<td>Cardiopulmonary Sciences</td>
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<tr>
<td>Criminal Justice</td>
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<td>Health Information Management</td>
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<td>Legal Studies</td>
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<tr>
<td>Medical Laboratory Sciences</td>
<td>BS</td>
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<tr>
<td>Molecular Biology and Microbiology</td>
<td>BS, MS</td>
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<tr>
<td>Nursing</td>
<td>BSN, MS</td>
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Department of Communicative Disorders

Chair: R. J. Lieberman; HPA 102; 407-823-4798

Academic Advisor: Jamie Schwartz

Clinic Director: C. Harvey; Research Pavilion Suite 155; 407-249-4770

Faculty: Brice, Dilvaoloi, Drellinger, Edison, Harvey, Hawkins, Lieberman, Mulcahy, Mullin, Nye, Parsons, Ratusnik, Rivers, Rosa-Lugo, Ruddy, Ryalls, Schwartz, Utt, Vanryckeghem, Whiteside

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 settings, 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


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 CAHHEP 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

Satisfaction of the complete medical record includes 1) 2042359

Health Information Manager: Tom Falen; HPA 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 separate application to the program by March 1 of the year in which admission is sought. Graduates of the Health Information Management 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 successful clinical practice in a variety of settings in which athletic trainers are presently employed. A significant and important aspect of the educational program will be clinical experiences that will occur in a variety of settings under the direction of an approved clinical instructor and certified athletic trainer. These local affiliation sites include high schools, colleges, universities, sports medicine clinics, and professional 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 examination, the student will be recognized as a certified athletic trainer (A.T.C.). The Athletic Training program 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.

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 coursework will emphasize skills and competencies necessary for successful clinical practice in a variety of settings in which athletic trainers are presently employed. A significant and important aspect of the educational program will be clinical experiences that will occur in a variety of settings under the direction of an approved clinical instructor and certified athletic trainer. These local affiliation sites include high schools, colleges, universities, sports medicine clinics, and professional 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 examination, the student will be recognized as a certified athletic trainer (A.T.C.). The Athletic Training program 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.

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.

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 program providing a migration path from the clinical side of the health care industry to the leadership side. Students without a background in the health care industry can build a solid understanding of the complexity of managing health services organizations.

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 opportunity to specialize in Radiography. Radiographers are integral members of the health care team dedicated to providing high quality patient care. Graduates are prepared to function as clinically competent Radiographers and, with experience, advance to leadership positions in 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 examinations/procedures which may include conventional radiography, fluoroscopy, mammography, vascular imaging, computed tomography and magnetic resonance imaging. Employment opportunities are available in hospitals, imaging centers, and private physician offices. Career advancement opportunities include positions in advanced imaging modalities, administration, education, and quality management.

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 certification 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 admission is sought.

Department of Molecular Biology and Microbiology

Chair: Pappachan E. Kolattukudy; HPA 2 335; 407-823-1206

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

The Department of Molecular Biology and Microbiology offers curricular 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 requirements 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 sciences, provides a solid foundation in concepts and applications of modern biology to contemporary and future problems. The Restricted Electives component of the baccalaureate program allows each student to enhance his/her academic preparation in areas of morphological, clinical, analytical or investigative applications. Students are also encouraged to gain research experience and exposure to specialized topics not taught in formal courses through the mechanism of directed research and independent study contracts with selected faculty. This thorough, but flexible, program, provides high level preparation for industry, graduate education, and for the four-year health professions (chiropractic, medical, dental, optometric, podiatric, 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, Busby, Byers, Connell, Covelli, Dennis, Doner, Dow, Gichia, Henning, Holcomb, Kiehl, Kijek, Lafferty, Leli, Mayer, Pelliccio, 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 on 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: Molecular Biology and Microbiology

Department of Public Administration

Chair: Montgomery Van Wart; HPA2 238; 407-823-2604
Faculty: Berman, Colby, Feldheim, 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: None
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 in the field of child welfare or related areas. The Addiction 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
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ACCOUNTING (B.S.B.A.)
College of Business Administration, BA 240, 407-823-2184
http://www.bus.ucf.edu

Admission Requirements
- Completion of the General Education program at UCF, a Florida Public Community College, or a Florida Public University
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (min 36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 1105 College Algebra 3 hrs
      Select CGS 2100C Computer Fund. for Bus 3 hrs
   D. Social Foundations
      Select ECO 2013 Macroeconomics 3 hrs
      or ECO 2023 Microeconomics 3 hrs
      Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
   E. Science Foundation 6 hrs

2. Common Program Prerequisites
   Must be completed with a “C” (2.0) or better
   ACG 2021 Principles of Financial Accounting 3 hrs
   ACG 2071 Principles of Managerial Accounting 3 hrs
   ECO 2013 Macroeconomics 3 hrs
   ECO 2023 Microeconomics 3 hrs
   ECO 3401 Quantitative Business Tools I 3 hrs
   CGS 2100C Computer Fundamentals for Business 3 hrs
   * 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.

3. Common Body of Knowledge (30 hrs)
   First Semester in the College of Business Administration:
   GEB 3001 Coremeal 6 hrs
   GEB 3356 Intro to International 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/Information Systems 3 hrs
   MAR 3023 Marketing 3 hrs
   BUL 3130 Legal and Ethical Environment of Business 3 hrs
   Last Semester:
   MAN 4720 Strategic Management 3 hrs

4. Special College and/or Departmental Requirements
   - Students must earn at least 60 credit hours of coursework outside of the College of Business (ECO 2013, 2023, 3401, and 3411 count towards this 60 hour requirement).
   - Students who change degree programs and select this major must adopt the most current catalog.
   - Students must have a “C” (2.0) or better in each common program prerequisites class.
   - A minimum grade of “C” (2.0) must be earned in each accounting, business law, and tax course completed. Principles of 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 3311 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 area from the following options:
   A. Public Accounting
      - ACG 3141 Intermediate Financial Accounting 3 hrs
      - ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
      - ACG 4651 Auditing 3 hrs
   B. Managerial Accounting
      - ACG 4671 Internal Auditing 3 hrs
      - ACG 5346 Intermediate Managerial Accounting 3 hrs
      - FIN 3414 Intermediate Corporate Finance 3 hrs
   C. Accounting Information Systems
      - ACG 4671 Internal Auditing 3 hrs
      - ACG 5405 Advanced Accounting Information Systems 3 hrs
      - ISM 3005 MIS Techniques 3 hrs
   D. Governmental and Not-For-Profit Accounting
      - ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
      - ACG 4671 Internal Auditing 3 hrs
      - ACG 5517 Financial Accounting and Auditing for Governmental and Nonprofit Organization 3 hrs
   E. General Accounting
      - Select one additional financial reporting course:
        - ACG 3141 Intermediate Financial Accounting or 3 hrs
        - ACG 4651 Auditing 3 hrs
      - Select one auditing course:
        - ACG 4651 Auditing 3 hrs
        - ACG 4671 Internal Auditing 3 hrs
      - Select one additional accounting course from the 3 hrs
        - 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 3311 Financial Accounting Concepts and Analysis 3 hrs
   - ACG 4401 Accounting Information Systems 3 hrs
   - ACG 3361 Intermediate Managerial Accounting 3 hrs
   - ACG 3501 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

plus
- 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.

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 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 9 semester hours of Summer credit (if applicable)

Total Semester Hours Required

120 hours

CPA Examination Requirements
Effective August 31, 1983, Florida Law states that to qualify to sit for the CPA exam, one must possess thirty (30) additional semester hours of credit beyond the minimum requirements for the baccalaureate degree. In addition to this overall educational requirement, the following specific criteria also apply:

- 36 hours in accounting beyond elementary, including coverage of financial accounting, auditing, cost and managerial accounting, and taxation.
- 39 hours in general business, including at least 6 hours of business 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

SUS system, and college algebra.
- Professional courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These professional areas are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

FOUR YEAR PLAN OF STUDY - ACCOUNTING

Freshman
Fall 15 hrs Spring 15 hrs
ENC 1101* 3 ENC 1105* 3
Cult Hist I* 3 Cult Hist II* 3
MAC 1105* 3 Art/Mus/Lit 3
Psy/Soc/Art 3 CS 2100C* 3
Science 3 Science 3

Must complete 9 hours in a Summer term

Sophomore
Fall 15 hrs Spring 15 hrs
ECO 2023* 3 ECO 2013* 3
ACG 2021* 3 ACG 2071* 3
SPC 1600 3 POS 2041 3
**Elective 3* **Elective 3
***Elective 3 ECO 3401* 3
* “C” (2.0) or better grade required in each class
** Accounting majors must have a “C” (2.0) or better in each class in the major to include law and tax and a 2.0 GPA in major

Junior
Fall 15 hrs Spring 15 hrs
GEB 3031 6 ECO 3411 3
**BUL 3130 3 GEB 3356 3
**ISM 3011 3 MAN 3025 3
**ACG 3130 3 **ACG 4401 3
**ACG 3361 3
** Accounting majors must have a “C” (2.0) or better in each class to include law and tax and a 2.0 GPA in major.

Senior
Fall 15 hrs Spring 15 hrs
**TAX 4001 3 MAN 4720 3
ACG Specialization 3 **ACG Specialization 3
FIN 3403 3 **Elective 3
**ACG Specialization 3 **Program Elective 3
MAR 3023 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.
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
Concentration by March 15 of the Spring semester two years prior to
expected graduation. Transfer students expecting to graduate in less
than two years should apply immediately upon admission to UCF.

Degree Requirements
- Students who change degree programs and select this major
  must adopt the most current catalog.
- All statistics courses except STA 2023, STA 3032, and those pro-
  tected 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 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 MAC 2311 Calculus I
     Select STA 2023 Statistical Methods I
   - D. Social Foundations
     Select ECO 2013 Macroeconomics
   - E. Science Foundations
     Select BSC 2010C General Biology
     Select PHY 2053C College Physics or
     CHM 2045C Chemistry Fundamentals

2. Common Program Prerequisites (14 hrs)
   - COP 3502C* Computer Science I
   - ECO 2023 Microeconomics
   - MAC 2311 Calculus I
   - MAC 2312 Calculus II
   - MAC 2313 Calculus III

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 4131 Life Contingencies II
   - COT 4500 Numerical Calculus
   - ENC 3241 Writing for Technical Professionals
   - BSC 2010C General Biology

Select one course
- MAS 3105 Linear and Matrix Algebra
- MAS 3106 Linear Algebra

Select two courses and associated labs (including 4 hrs GEP)
- BSC 2011C Biological Diversity (PR: BSC 2010C)
- CHM 2045C Chemistry Fundamentals
- CHM 2046 & 2046L Chemistry Fundamentals II & Lab
- PHY 2053C College Physics I
- PHY 2054C College Physics II

Select three from among the following:
- STA 4852 Applied Time Series
- STA 4102 Computer Process of Stat Data
- STA 4165 Statistical Methods II with Computer
- STA 4104 Statistical Methods III

4. Restricted Upper Division Electives (15 hrs)
   - Select from upper division or graduate statistics, actuarial sci-
     ence, 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 MHI 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 proficien-
     cy exam) prior to graduation.
   - Graduation: none

7. Electives (variable)
   - Select primarily from upper level courses, with departmental advi-
     sor’s approval. May be outside of the department.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in res-
     idency 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 2011C*: any laboratory BSC, CHM, or PHY course.
- However this is a prerequisite for BSC 2011C 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.
Deadlines are:
October 1, 2003 for Spring 2004
Feb 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 varies somewhat with the quality of applicants, but for the previous acceptance periods, the minimum GPA did not drop below 3.3.
- Have acceptable keyboard skills.
- Receive a positive evaluation of other factors specified by the School.

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op credit can be used in the major.
- Students should consult with a departmental advisor.
- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF 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 six credit hours of internship may be earned in one semester. A total of nine credit hours of internship may be earned within the 120 credit 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 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 COS 106C Intro to Computer Sci or STA 2014C Principles of Statistics or STA 1060C Statistics Using Excel 3 hrs
   D. Social Foundations
      - 6 hrs
   E. Science Foundations
      - 6 hrs

2. **Common Program Prerequisites**

   - SPC 1600 Fund Oral Communication GEP

3. **Core requirements** (30 hrs)

   - 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
   - MCG 4254 AdPR 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 4803 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** (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 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)

**Total Semester Hours Required** 120 hours

**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** (38 hrs)

   The UCF General Education Program (GEP) is described in the section, General Education Program, found elsewhere in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E., below to minimize excess hours. Students transferring to UCF from the Florida State University/Community College Systems should complete the GEP and the Common Program Prerequisites before transferring.

   A. Communication Foundations
      - 9 hrs
      - 1. 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 and Engineers I
      - 2. Take MAC 2283
   C. Mathematical Foundations
      - 7 hrs
      - 1. Take MAC 2281, Calculus for Scientists and Engineers I (4hrs)
   D. Social Foundations
      - 6 hrs
      - 1. Take ECO 2013 or ECO 2023.
   E. Science Foundations
      - 7 hrs
      - 1. Take PHY 2048/48L.
      - 2. Prefer 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 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 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 Calculus 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.

3. Courses Required for the Major (60 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.

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 or
- CECS encourages all engineering students to take the Engineering Intern Exam during their Senior year.
This program allows up to nine graduate hours to be substituted. This program and it is important for your academic career that you meet with your advisor to plan a personalized program of study. 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 3500 ( "C" or FORTRAN recommended).

If you are not ready to begin the calculus sequence upon entry into the Aerospace Engineering curriculum it is imperative that you meet with your advisor to plan a personalized program of study. Mathematics and physics are cornerstones of a quality engineering program and it is important for your academic career that you proceed accordingly.

Integrated BS/MS Degree Program

The Mechanical, Materials, and Aerospace Engineering 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 BS requirements. See advisor for appropriate substitutions.

ANIMATION TRACK in ART

See Art - Animation Track
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 5167 Maya Hieroglyphs
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 (0-8 hrs)
   Admission: Met by graduation requirement.
   Graduation: Two semesters or equivalent proficiency exam.

9. Electives (variable)
   Select primarily from upper level courses, with departmental advisor's approval. These courses may be outside of the department.

10. University Minimum Exit Requirements
   - A "C" (2.0) GPA in all work attempted (both UCF and overall)
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Sociology, Graduate Certificate in Maya Studies
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 lap top 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 (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations
      - Select one two-semester sequence 6 hrs
   C. Mathematical Foundations
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites (27 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
   ART 2820 Art as Interface 3 hrs
   ARH 2050 History of Art I GEP 3 hrs
   ARH 2051 History of Art II 3 hrs
   ARH 2055 Survey of Non-Western Art 3 hrs
   ART 2800C* Intro to Computer Graphics 3 hrs
   ART 2XXX-4XXX any ART prefix, studio or media course 3 hrs
   *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, FI: 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*)
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 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 residency at UCF
A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Art History, Studio Art (BA), Art Education, Animation, Digital Media
Related Minors: Partners in Visual Art Education

Transfer Notes:
Courses taken at community colleges do not substitute for Upper Division courses
Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
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 course 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

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations
Take one two-semester sequence 6 hrs
Select ART 2050 The History of Art I 3 hrs
C. Mathematical Foundations
Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
Select CSC 1050C Intro to Computer Sci 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 3XXX-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:
6. Departmental Exit Requirements

- ART 4971 Thesis 3 hrs
- Achieve at least a “B” GPA (3.0) 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)

- 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: 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 (36 hrs)

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 2201C Design Fundamentals I 3 hrs
- ART 2300C Drawing Fundamentals I 3 hrs
- ARH 2050 History of Art I 3 hrs
- ARH 2051 History of Art II 3 hrs

3. Core Requirements (18 hrs)

- ARH 3430 Nineteenth Century Art 3 hrs
- ARH 3450 Twentieth Century Art 3 hrs
- ARH 4500 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: 3 hrs

- ARH 3520 African Art 3 hrs
- ARH 4545 Art of India 3 hrs
- ARH 4655 MesaAmerican Art 3 hrs

One of the following courses: 3 hrs

- ARH 4350 Baroque Art 3 hrs
- ARH 4458 Women & Art in 20th Century America 3 hrs
- ARH 4892 Women in Art 3 hrs

Select 12 additional hours from following: 12 hrs

- ARH 3520 African Art 3 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 4547 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 MesaAmerican Art 3 hrs
- ARH 3683 Southern Folk Arts 3 hrs
- ARH 3820 Visual Arts Administration 3 hrs
- ARH 5933 Min. 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. 

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 (36 hrs)
   A. Communication Foundations
      9 hrs
   B. Cultural and Historical Foundations
      Take one two-semester sequence
      Select ARH 2050 The History of Art I
      3 hrs
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics (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
   (27 hrs)
   ART 2201C: Design Fundamentals I 3 hrs
   ART 2203C Design Fundamentals II 3 hrs
   ART 2203C 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 3 hrs
   ARH 2051 History of Art II 3 hrs
   ARH 2055 Survey of Non-Western Art 3 hrs
   ART 2300C* Intro to Computer Graphics 3 hrs
   *See Transfer Notes for possible substitutes

3. Restricted Electives
   (27 hrs)
   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*)
   Art History (ART 3XXX, 4XXX) *may be repeated for credit

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 (BFA), Art Education, Animation, Digital Media
Related Minors: Partners in Visual Art Education, 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 (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 2020 U.S. History 1877-Present 3 hrs
      AMH 2010 U.S. History 1492-1877 3 hrs
      PHI 2010 Introduction to Philosophy 3 hrs
   C. Mathematical Foundations
      Select one:
      STA 1060C Basic Statistics using MS Excel or
      STA 2141C Principles of Statistics 3 hrs
      MGF 1106 Finite Mathematics 3 hrs
   D. Social Foundations
      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 (BFA), Art Education, Animation, Digital Media
Related Minors: Partners in Visual Art Education, 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

Partners in Visual Art Education, Digital Media
UCF Degree Programs

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
     - ENC 1101 Composition I
     - ENC 1102 Composition II
   - B. Social Science/History 12 hrs
     - ANT 2511 The Human Species
     - PSC 1121 Physical Science
   - C. Mathematics (9 hrs)
     - MAC 1115 College Algebra
   - D. Science (9 hrs + lab)
     - BSC 1005 Biological Principles
       - Select one: 3 hrs
       - GLY 1030 Geology and its Applications
     - Note: 25% of course work must be completed in residency at UCF

2. Common Program Prerequisites (43 hrs)
   - A. Communications (9 hrs)
     - ENC 1101 Composition I
     - ENC 1102 Composition II
     - B. Humanities (6 hrs)
     - PHI 2010 Introduction to Philosophy
   - C. Mathematics (9 hrs)
     - MAC 1105 College Algebra
   - D. Social Science/History (12 hrs)
     - AMH 2010 U.S. History 1492-1877
     - POS 2041 American National Government
   - E. Science (9 hrs + lab)
     - PSC 1121 Physical Science
       - Select one of the following (per GEP)
         - ART 2201C Designs Fundamentals I
         - ART 2203C Designs Fundamentals II
         - ART 2600C Intro to Computer Graphics
     - Note: All art courses and all methods courses must be completed before registering for Internship II

3. Education Core Requirements (15 hrs)
   - EDG 4232 Professional Teaching Practices
   - EDF 4603 Analysis of Critical Issues in Education
   - TSL 4080 Theory and Practice of Teaching ESL
   - RED 4043 Content Reading K-12

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
   - ARE 4351 Teaching Art in the Elementary School
   - ARE 4352 Teaching Art in the Secondary School

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)

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
    - 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)

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

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 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 Foundation 9 hrs
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB 4422</td>
<td>Florida Aquatic Ecology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PCB 4302C</td>
<td>Physiological Limnology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PCB 4303C</td>
<td>Biological Limnology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PCB 5045C</td>
<td>Conservation Biology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PCB 5228C</td>
<td>Landscape Ecology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PCB 5326C</td>
<td>Ecosystems of Florida</td>
<td>5 hrs</td>
</tr>
<tr>
<td>PCB 5485</td>
<td>Models in Ecology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PCB 5520</td>
<td>Behavioral Ecology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ZOO 4513</td>
<td>Animal Behavior</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ZOO 5815</td>
<td>Zoogeography</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ZOO 5881C</td>
<td>Fisheries Management</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ZOO 5893L</td>
<td>Repro Mgt Zool Env</td>
<td>1 hr</td>
</tr>
</tbody>
</table>

**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.

### 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 minimum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required** 120 hours

**Related Programs:** Molecular and Microbiology, Science Education, Environmental Engineering

**Related Minors:** 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:
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 of 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

Select MAC 2311 Calculus or
MAC 2241 Calculus for Life Sciences 4 hrs
Select STA 2023 Statistical Methods I 3 hrs

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 (PR-MAC 2311) 4 hrs
Select BSC 2101C 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)

BSC 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 4893 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 4524 Molecular Biology II 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

MCB 3020C General Microbiology 5 hrs
a ZOO 4205C Bio & Ecol of Metazoa & 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.

112 UNIVERSITY OF CENTRAL FLORIDA 2003-2004 Undergraduate Catalog
Students should complete the General Education Program, "Students who change degree programs and select this major Degree Requirements - Admission Requirements Undergraduate Program Director: L. Timothy Worrell E-mail: worrell@mail.ucf.edu Admission Requirements - Limited Access Acceptance to the university does not necessarily constitute admission to the upper division cardiopulmonary sciences program. Separate Application to the limited access program must be made directly to the program prior to February 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 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 before 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 undergraduates 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 the Common Program Prerequisites Requirements 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* 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 Pathophysioligic Mechanisms 3 hrs APB 4651 Medical Pharmacology II 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 3244C Mechanical Ventilation 3 hrs APB 4652 Medical Pharmacology II 2 hrs HSC 4500 Epidemiology 3 hrs RET 4414C Pulmonary Function Studies 4 hrs RET 3374 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 4285 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 none 5. Departmental Exit Requirements (127 hrs) Cardiopulmonary Sciences GPA requirement minimum 2.5 overall required for admission and graduation. 6. Electives none 7. Foreign Language Requirements (0-8 hrs) Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation. Graduation: none 8. University Minimum Exit Requirements A 2.0 UCF GPA 60 semester hours earned after CLEP awarded
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.

Community College Equivalents
College Algebra (MAC 1110) or (higher level) 3 hrs
Statistics (STA 2023) or (higher level) 3 hrs
College Physics I (PHY 1007/L) or (PHY 3004/L) or higher level with labs 4 hrs
General Chemistry with Lab (CHM 1031/L) or (higher level) 4 hrs
General Biology with Lab (BSC 1005/L) or (higher level) 4 hrs
General Microbiology (MCB 2010C) or (MCB 2005C) or (MCB 2020L) or (PHA 2751) 4 hrs
Human Anatomy and Physiology I & II (BSC 2093C and 2094C) or (BSC X085 and X086) replaces Anatomy and Physiology courses (ZOO 3733C and PCB 3703C) 8 hrs

Tentative Course Schedule for Entering Freshmen

Freshman Year
Fall
- ENC 1101 3
- CHM 1002 and lab 3/1
- PHY 2053 or PHY 2053C 4
- PHY 2053L 2
- MAC 1114 3
- MAC 1114H 3
- EUH 2000 or HUM 2211 3
- STA 2023 3
- HSC 2000 2

Fall
- ENC 1101 3
- CHM 1002 and lab 3/1
- PHY 2053 or PHY 2053C 4
- PHY 2053L 2
- MAC 1114 3
- MAC 1114H 3
- EUH 2000 or HUM 2211 3
- STA 2023 3
- HSC 2000 2

Summer
- (Foreign Lang II) 4

Sophomore Year
Fall
- PHY 2053 or PHY 2053C 4
- ZOO 2730 4
- ZOO 2730L 2
- EUH 2001 or HUM 2230 or AMH 2200 3
- STA 2023 3
- ARH 2051, MUL 2010 (4 hrs)
- LIT 2110, LIT 2120 (4 hrs)

Fall
- RET 3026 4
- RET 3026C 4
- HSC 4550 3
- APB 4651 2
- APB 4651 2

Fall
- RET 3026C 4
- HSC 4550 3
- APB 4651 2
- APB 4651 2

Summer
- RET 3874 5
- Sym 3874 5

Senior Year
Fall
- RET 3875 8

Fall
- RET 4284 3
- RET 4285 3
- RET 4715 3
- RET 4934 2
- RET 4034 3
- HSC 4500 3

Minor: none

Accreditation
Upon completion of the undergraduate program, the baccalaureate individual will possess basic and advanced level skills and should be prepared to assume future leadership roles within the profession. Graduates will be prepared to become Registered Respiratory Therapists through licensure by the State of Florida.

The Cardiopulmonary Sciences program is accredited by the Committee on Accreditation for Respiratory Care in conjunction with CAAHEP.

CHEMISTRY (B.S.)

College of Arts and Sciences
Chemistry Department, CH 117, 407-823-2246
http://www.cas.ucf.edu/chemistry
E-mail: chemistry@ucf.edu
B. Madsen, 407-823-2230

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 who change program and select this major must adopt the most current catalog.
- Degree Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry.
- Courses designated in 1 (General Education) 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 6 hrs
- Select MAC 2311 Calculus
- Prefer STA 1060C Statistics Using Excel 3 hrs
- Social Foundations 6 hrs
- E. Science Foundations
- Select PHY 2048 & L Physics for Sci & Engr (PR: MAC 2311) 4 hrs
- Select BSC 2010C General Biology 4 hrs

2. Common Program Prerequisites (22 hrs)

- Select one of the following GEP
- BCH 4053 Biochemistry I 3 hrs
- CHM 4930 Chemistry Seminar 1 hrs
- CHM 4914C Undergraduate Research Methods 1 hrs
- CHM 4130C Adv Analytical Lab Technique 4 hrs
- CHM 4101C Organic Chemistry Lab 2 hrs
- CHM 4120C Organic Chemistry I 4 hrs
- CHM 4120C Physical Chemistry I 4 hrs
- CHM 4101C Organic Chemistry Lab 2 hrs
- CHM 4130C Adv Analytical Lab Technique 4 hrs
- CHM 4941C Undergraduate Research Methods 1 hrs
- CHM 4912 Undergraduate Research 3 hrs
- CHM 4930 Chemistry Seminar 1 hrs
- BCH 4053 Biochemistry I 3 hrs
- BSC 2010C General Biology 4 hrs
- STA 1060C Statistics Using Excel 3 hrs
- STA 2023 Statistical Methods I 4 hrs

3. Core requirements (39 hrs)

- MAC 2311* Calculus w/ Anal Geometry III 4 hrs
- PHY 2048 & L* Physics for Sci & Engr 4 hrs
- PHY 2048 & L* Physics Engr. & Sci. I & Lab 4 hrs
- STA 2023 Statistical Methods I 4 hrs

- Select one of the following
- STA 1060C Statistics Using Excel 3 hrs
- STA 2023 Statistical Methods I 4 hrs
- CGS 1060C Intro to Computer Science 3 hrs

* See Transfer Notes for possible substitutes
4. Upper Division Restricted Electives (5 hrs)
   - BCH 4054: Biochemistry II 3 hrs
   - CHM 5225: Advanced Organic Chem I 3 hrs
   - CHM 4299: Organic Chem III 3 hrs
   - CHM 5235: Applied Molec Spectroscopy 3 hrs
   - CHM 5580: Advanced Physical Chem 3 hrs
   - CHM 5480: 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.

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 Micro-biology, 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

UCF Degree Programs

- 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.
  * PHY 2048 & Lab and PHY 2049 & Lab are prerequisite courses for subsequent chemistry courses and will still have to be taken.
  * 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

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)
   Note: Calculus II is the prerequisite for this course.

C. Mathematical Foundations
   7 hrs
   1. Take MAC 2282, Calculus for Scientists and Engineers II
   2. Take ANT 2000, PSY 2012, or SYG 2000
   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 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)

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: Chemistry Fundamentals I with Lab 4 hrs
3. Courses Required for the Major (62 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1007C Engineering Concepts & Methods 1 hr
CHM 2046 Chemistry Fundamentals II 3 hrs
EGN 4310 Engineering Analysis - Statics 3 hrs
EGN 4321 Engineering Analysis - Dynamics 3 hrs
EGN 4331 Mechanics of Materials 3 hrs
EGN 4343 Thermodynamics 3 hrs
EGN 4365 Structure & Properties of Materials 3 hrs
EGN 3373 Principles of Electrical Engineering 3 hrs
EGN 3631 Engineering Economic Analysis 2 hrs
CCE 4003 Intro to the Construction Industry 3 hrs
ENV 4401 Intro to Environmental Engineering 3 hrs
STA 3032 Probability & Statistics for Engineers GEP
CIG 4101C Geotechnical Engineering I 4 hrs
CES 4100C Structural Analysis I 4 hrs
CES 4605 Steel Structures or
CWR 4702 Reinforced Concrete Structures 3 hrs
CWR 3201 Engineering Fluid Mechanics 3 hrs
CWR 4101C Hydraulics 3 hrs
ENV 4561 Environment Engng-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 such courses are 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 Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

Tentative Course Schedule for Entering Freshmen

The tentative course schedule listed below is a guide for those students who plan on completing their degree in four years. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Civil Engineering - 128 semester hours required

FIRST YEAR

Fall 14 hrs¹ Spring 15 hrs¹
*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
*MAC 2283 Calc Sci & Eng II 4
*SPC 1016 Tech Presentations 3 *PHY 2048/L Phys Engr II w/lab 4
*ECO 2013 Macroeconomics or *ECO 2023 Microeconomics
*ANT/PSY/SYG or *EGN 3310 Engr Anal - Statics
or *HUM/AMH/EUH - I 3 *EGN 3310 Engr Anal - Statics
or *HUM/AMH/EUH - II 3 *EGN 3310 Engr Anal - Statics
or *PHY 2049/L Phys Engr I w/lab 4
or *PHY 2049/L Phys Engr II w/lab 4

SECOND YEAR

Fall 16 hrs¹ Spring 16 hrs¹
*MAC 2283 Calc Sci & Eng III 4 *MAP 2302 Diff Equations 3
*CHM 2054/L Chemistry Fund I 4 *CHM 2054/L Chemistry Fund II 3
*HUM/AMH/EUH - I 3 *PHY 2049/L Phys Engr II w/lab 4
*HUM/AMH/EUH - II 3 *EGN 3310 Engr Anal - Statics
or *PHY 2049/L Phys Engr I w/lab 4 *EGN 3310 Engr Anal - Statics
or *PHY 2049/L Phys Engr II w/lab 4

THIRD YEAR

Fall 16 hrs¹ Spring 15 hrs¹
CWR 3201 Eng Fluid Mechanics 3 CWR 4101C Hydraulics 3
CCE 4003 Intro to Const Indus 3 CWR 4203C Hydraulics 3
EGN 3343 Thermodynamics 3 EGN 3343 Thermodynamics 3
CES 4100C Structural Analysis I 4 *Culture/Historical Elective
STA 3032 Prob/Stats for Engrs 3 *ANT/PSY/SYG or
STA 3032 Prob/Stats for Engrs 3 *ANT/PSY/SYG or

FOURTH YEAR

Fall 15 hrs¹ Spring 12 hrs¹
TTE 4004 Transportation Eng 4 Approved Project Design Course 3
CWR 4203C Hydraulics 3 Approved Project Design Course 3
CIG 4101C Geotechnical Engr 4 CES 4702 Reinforced Concrete
or Technical Elective 4 Structures 3
CES 4605 Steel Structures or CES 4605 Steel Structures
or Technical Elective 3 or 3
EGN 3365 Str. & Prop Matls 3 or 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. Either CES 4605 Steel Structures or CES 4702 Reinforced Concrete Structures is required for all students.

CIVIL ENGINEERING - CONSTRUCTION ENGINEERING CONCENTRATION (B.S.C.E.)

College of Engineering and Computer Science
Manoj Chopra, E-Mail: chopra@mail.ucf.edu
Coordinator: Amr A. Oloufa, E-Mail: aoloufa@mail.ucf.edu

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ENG2 211, 407-823 2841, Fax: 407-823-3315,
Civil & Environmental Engineering Department (CEE), ENG2 211, 407-823 2841, Fax: 407-823-3315,
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Manoj Chopra, E-Mail: chopra@mail.ucf.edu
Coordinator: Amr A. Oloufa, E-Mail: aoloufa@mail.ucf.edu

116 UNIVERSITY OF CENTRAL FLORIDA 2003-2004 Undergraduate Catalog
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 (38 hrs)

   Engineering Students

   The UCF General Education Program (GEP) is described in this catalog. Engineering students should closely study the requirements of the UCF GEP and the allowable substitutions detailed in paragraphs A. through E. below to minimize excess hours. Students transferring to UCF from within the Florida State University/Community College System 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
      9 hrs
   
   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 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 2048/48L.
      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) (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.

   MAC 2281L
      Chemistry Fundamentals I with Lab
      4 hrs
      GE
   
   MAC 2282
      Calculus for Scientists & Engineers II
      4 hrs
      GE
   
   MAC 2283
      Calculus for Scientists & Engineers III
      4 hrs
      GE
   
   MAP 2302
      Differential Equations
      3 hrs
   
   PHY 2048/48L
      Physics for Engineers & Scientists I
      4 hrs
      GE
   
   ENC 1101
      Composition I
      3 hrs
      GE
   
   ENC 1102
      Composition II
      3 hrs
      GE
   
   Humanities Courses
      GE
   
   Social Science Courses
      GE
   
   Humanities or Social Sciences
      GE

3. Courses Required for the Major (62 hrs)

   The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the technical elective courses listed in 4. below and with the senior design courses listed in 5. below. Independent study courses generally do not satisfy major requirements and normally are awarded grades of I, S, or U.

   MAC 2301
      Intro to the Engineering Profession
      1 hr
   
   MAC 106C
      Intro to the Engineering Profession
      1 hr
   
   CHM 2046
      Chemistry Fundamentals II
      3 hrs
   
   EGN 3310
      Engineering Analysis - Statics
      3 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 are encouraged to take either EGN 3343 (Thermodynamics) or EGN 3373 (Principles of Elect Engr) as the technical elective. Other courses from the list of approved technical electives may be used with the approval of the department advisor. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

   CE
   
   CEG 4801C
      Construction Engr. Design Project
      3 hrs
   
   CEG 4801C
      Geotechnical Engr. Design
      3 hrs
   
   Civil engineering students must take the Engineering Intern Exam during their Senior year.
   
   Earn a 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.
   
   B. 60 semester hours earned after any CLEP award.
   
   C. 30 of the last 36 hours of course work must be completed in residence at UCF.
   
   D. 25% 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 semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Environmental Engineering.

Related Minors: Mathematics.

Transfer Notes:

- 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 Spring 15 hrs
* 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
  * SPC 1016 Tech Presentations 3 * PHY 2048L Phys Engr I w/lab 4
  * ECO 2023 Microeconomics 3 * ANT/PSY/SYG or 3
EGN 1006C Intro to Eng Prof 1 EGN 1007C Eng Con & Meth 1

SECOND YEAR
Fall 16 hrs Spring 16 hrs
* MAC 2233 Calc Sci & Eng III 4 * MAP 2302 Diff Equations 3
  * CHM 2045Crch Chemistry I 4 * CHM 2045 Chemistry Fundamentals II 3
  * HUM/AMH/UEH - I 3 * PHY 2049/2050 Phys Engr II w/lab 4
EGN 3101 Engr Anal - Statics 3 * HUM/AMH/UEH - II 3
EGN 3613 Eng Econ Anal 2 EGN 3321 Mech of Materials 3
Summer 9 hrs
* SUR 2101C Surveying 3
STA 3032 Prob/Stats Engineers 3
ENV 3001 Intro to Environ Eng 3

THIRD YEAR
Fall 16 hrs Spring 15 hrs
EGN 3321 Engr Anal-Dynamics 3 ACG 2071 Accounting 3
CCE 4003 Intro Constr. Industry 3 CES 4702 Reinforced Concrete 3
CES 410CC Structural Analysis I 4  Structures or CES 4605 Steel 3
*ANT/PSY/SYG or 3 Structures 3
* GEO/GY/LBSC 3 CCE 4004 Construct Methods 3
EGN 3365 Struc & Prop of Mat 3 *Cultural/Historical Elective 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.

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 (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural Historical Foundations 9 hrs
   C. Mathematical Foundation 6 hrs
   Select STA 2023
   D. Social Foundations 6 hrs

Select PSY 2012 General Psychology
Select one of the listed choices (ECO 2033, ECO 2023, POS 2041, SYG 2000, ANT 2000)
E. Science Foundations
   Prefer BSC 1005 Gen Bio
   Select one of the listed choices (PSC 1121, PHY 2053C)

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 3121L Basic Phonetics Lab 1 hr
   LIN 3716 Language Development: Birth through 8yrs 3 hrs
   SPA 3011 Speech Science I: Speech Production 3 hrs
   SPA 3011L Speech Production Lab 1 hr
   LIN 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 XXXX Language Analysis 3 hrs
   SPA XXXXL Language Analysis Lab 1 hr
   SPA 4400 Language Disorders Across the Lifespan 3 hrs
   SPA 4321 Aural Habilitation-Relabilization 3 hrs
   EAB 3703 Principles of Behavior Management or 3 hrs
   EDF 3307 Learning Environ & Guidance for Young Children 3 hrs
   SPA 4590L Clinical Observation 3 hrs
   SPA 4560 Clinical Methods 3 hrs
   SPA 4052L Clinical Practice: Participant 3 hrs
   Observation

4. Statistics Requirement (6 hrs)
   STA 2023 Statistical Methods I 3 hrs
   STA 4163 Statistical Methods II or 3 hrs
   HSA 4701 Introduction to Research in the Health Professions 6 hrs

5. Upper Division Restricted Electives (6 hrs)
   An additional six credit hours of upper division course work in Communicative Disorders selected in consultation with the academic advisor.

6. 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)
   B.A./B.S. Option

- 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. S. degree must complete two health science courses (six credit hours) approved by the Department.

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 Supercil credit (if applicable)
UCF Degree Programs

Total Semester Hours Required 120 hours

Related Programs: Health Services Administration, Physical Therapy, Psychology, Social Work, Exceptional Education

Related Minors: Exceptional Education, Aging Studies, Health Services Administration, Interpersonal Communication, Linguistics, Psychology

Transfer Notes:
- "D" (1.0) grades are not accepted
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Students may take STA 2023 or STA 2014C to fulfill the first part of the statistics requirement

Tentative Course Schedule for Entering Freshmen

Freshman Year
Fall 13 hrs Spring 15 hrs
ENC 1101 3 ENC 1102 3
PSY 2012 3 PSC 1121 or PHY 2053C 3
BSC 1005 4 ECO 2013 or ECO 2023 3
One Course: ARH 2050, or POS 2041
or ARH 2051, MUL 2010, or THE 2000, REL 2300.
PHI 2010, LIT 2110, LIT 2120 3
*Plan your required nine summer hours into your course of study

Sophomore Year
Fall 12/13 hrs Spring 15/16 hrs
SPC 1600 3 SPA 3002 3
EHU 2001 or HUM 2230 3 Restricted Elective 3
or AMH 2020 3 EAB 3703 or EEC 4603 3
MGF 1106 or MAC 1105 3 or EEX 4601 3
Foreign Lang. I (B.A.) 3/4 STA 2023 3
or Health Science (B.S.)

Summer 10 hrs
SPA 3112 3
SPA 3112L 1
HSA 4701** 6
**If Gen. Ed. has not been met, take:
ST April 3
STA 4163 3

Junior Year
Fall 13 hrs Spring 16 hrs
LIN 3716 3 LIN 3717 3
SPA 3011 3 SPA 3123 3
SPC 3011 3 SPA 3123L 3
SPA 3101 1 SPA 4201 1
Elective 3 SPA 3104 3
Elective 3

Senior Year
Fall 16 hrs Spring 12 hrs
SPA 4032 3 SPA 4231 3
SPA 4400 3 SPA 4052LL 3
SPA XXXX 3 Elective 3
SPA XXXXL 1 Elective 3
SPA 4550 3
SPA 4050LL 3

Minor:
The Department of Communicative Disorders offers a minor consisting of a minimum of 22 semester hours. Required courses: SPA 3002, LIN 3716, SPA 3101, SPA 3112, SPA 3112L, SPA 4032, SPA 4201 and SPA 4400.

Licensed Speech Language and Audiology Assistant:
This state license may be obtained by completing the minor plus one additional course as recommended by the academic advisor.

Certificate Programs:
The Department of Communicative Disorders offers two undergraduate certificate programs: American Sign Language and Language Development and Disorders.

Note:
Certification in speech-language pathology by the American Speech-Language-Hearing Association and licensure by the State of Florida Department of Health, Division of Medical Quality Assurance requires a master's degree in communicative disorders. Minimum requirements for entry into the graduate program typically include at least a 3.0 GPA in the last 60 hours of undergraduate work in the major. Entry level positions to provide speech and language services are available in some Florida school districts. Under the 2/5 Rule, individuals employed in these positions have two years from the date of employment to enroll in a master's program in communicative disorders and five years to complete the degree.

COMPUTER ENGINEERING (B.S.Cp.E.)
College of Engineering and Computer Science
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

   C. Mathematical Foundations 7 hrs
      1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs)
      2. Take STA 3032 (3 hrs)
      3. 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 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 2048/2048L 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) GEP
   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 2048/408L Physics for Engineers & Scientists I GEP
UCF Degree Programs

PHY 2043L, 2043L1, Physics for Engineers & Scientists II
ENC 1101, Composition I
ENC 1102, Composition II
Humanities Courses
Social Science Courses

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 3 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.

EEL 4914 Senior Design I 3 hrs
EEL 4915L Senior Design II 3 hrs

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

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 - 128 semester hours required
FIRST YEAR
Fall
*Cult & Hist Foundations 1a 3
*ENC 1101 English Comp I 3
*EEL 1006C Intro to Electronics 3
*MAC 2281 Calc Sci & Eng I 4

Summer
10 hrs¹
*Social Foundations 1 3
*Science Foundations 2 3
*MAC 2283 Calc Sci & Eng III 4

SECOND YEAR
Fall
*MAP 2302 Diff Equations 3
*EEL 3306 Semi Devices I 3
*PHY 2049/L Lab Engr Sci II 1

Spring
15 hrs¹
*MAC 2285 Calc Sci & Eng IV 4
*EEL 3307 Electrons I 4
*EEL 3342C Intro to Digital Circuits & Systems 3 hrs
*EEL 3657 Linear Control Systems 3 hrs

Summer
6 hrs¹
*ECO 2013 Macroeconomics or 3
*ECO 2023 Microeconomics or
*Cult & Hist Foundations 1b 3

THIRD YEAR
Fall
14 hrs
EEL 3306 Semiconv Devices I 3
EEL 4767C Cmp Comm Networks 3

Spring
14 hrs
EEL 4884C Engineering Software Design 4
EEL 4885C Engineering System Software 3
EEL 4914 Senior Design I 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. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.

Fourth Year
Fall
14 hrs
*MAC 2281 Calc Sci & Eng I 4
*MAC 2283 Calc Sci & Eng III 4

Spring
12 hrs¹
EEL 4884C Engineering Software Design 4
EEL 4885C Engineering System Software 3
EEL 4914 Senior Design I 3

Approved Technical Elective 3

Notes:
1. Credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

Computer Engineering - Software Engineerizing Concentration (B.S.Cp.E.)
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.

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.

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.

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.

Computer 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.
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 7 hrs
1. Take HCI 2000, HUM 2000, or HUM 2010
2. Take STA 3023 (3 hrs)

C. Mathematical Foundations 7 hrs
1. Take MAC 2311, 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 2010 or ECO 2020
2. Take ANT 2000, PSY 2012, or SOC 2010

E. Science Foundations 6 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 CPP 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 CPP courses 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 (CHM 2045C/45L will substitute) 4 hrs
MAC 2281 Calculus for Scientists & Engineers I (MAC 2311 will substitute) GEP 4 hrs
MAC 2282 Calculus for Scientists & Engineers II (MAC 2312 will substitute) 4 hrs
MAC 2283 Calculus for Scientists & Engineers III (MAC 2313 will substitute) 4 hrs
MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I GEP 4 hrs
PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
ENC 1101 Composition I GEP 3 hrs
ENC 1102 Composition II GEP 3 hrs

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 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 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics or EGN 3340 Thermodynamics 3 hrs
EGN 3420 Engineering Analysis 3 hrs
STA 3023 Probability & Statistics for Engineers GEP 3 hrs
PHY 3101 Physics for Engineers & Scientists I 3 hrs
EEL 3304 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
EGN 3657 Linear Control Systems 3 hrs
EEL 3901C Intro to Computer Engineering 3 hrs
EEL 4767C Computer System Design I 4 hrs
EEL 4768C Computer System Design II 4 hrs
EEL 4781 Computer Comm Networks 3 hrs
EEL 4851C Engineering Data Structures 4 hrs
EEL 4882 Engineering System Software 3 hrs
EEL 4884C Engineering Software Design 4 hrs
EEL 588L Software Engineering I 3 hrs
CEN 4020 Component Design in Software Engr or 3 hrs
EEL 5771C Engr Apps of Computer Graphics 3 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. 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
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.

5. Departmental Graduation Requirements (6 hrs)

EEL 4882 Engineering System Software 3 hrs
EEL 4915L Senior Design II 3 hrs
ECE 4916 Senior Design III 3 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

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


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
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 3340 Thermodynamics 3 hrs
EGN 3420 Engineering Analysis 3 hrs
STA 3023 Probability & Statistics for Engineers GEP 3 hrs
PHY 3101 Physics for Engineers & Scientists I 3 hrs
EEL 3304 Electrical Networks 3 hrs
EEL 3123C Networks and Systems 4 hrs
EEL 3306 Semiconductor Devices I 3 hrs
Spring 12 hrs
*ENC 1102 English Comp II 3 hrs
*ENG 1007C Eng Conc & Meth 1 hr
*SPC 1016 Tech Presentations 3 hrs
EEL 1006C Intro to Engr 1 hr
*MAC 2281 Calc Sci & Eng I 4 hrs
Summer 10 hrs
UCF Degree Programs

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. Credit earned on a pass/fail basis will not be counted toward the major.
4. Foundation credits are allowed. No internships or cooperative education hours are allowed. No independent study is allowed. No independent study allowed. No internships or cooperative education hours are allowed. No independent study allowed. No internships or cooperative education hours are allowed.
5. 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.
6. Students must earn at least a 2.0 in each course in 2-6
7. Students are required to consult with a departmental advisor after passing the foundation exam
8. 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.
9. 18 of the 24 Residency hours must be at the 4000-5000 level
10. UCF General Education Program
    A. Communication Foundations
        Select ENC 1101, ENC 1102, Prefer SPC 1016
    B. Cultural and Historical Foundations
        9 hrs
11. Mathematical Foundations
        Select MAC 2311 Calculus 4 hrs
        Select STA 2033 Statistical Methods I 3 hrs
12. Social Foundations
    6 hrs
13. Science Foundations
    Select PHY 2048 & L Physics for Sci & Engr (PR:MAC 2311) 4 hrs
    Select any science course designed for majors (exclusive of Physics) 3 hrs
14. Common Program Prerequisites
    COP 2323 C Programming 3 hrs
    MAC 2311 Calculus with Analytic Geom I GEP
    MAC 2312 Calculus with Analytic Geom II 4 hrs
    PHY 2048 & L Physics for Engr. & Sci. I & Lab 4 hrs
    PHY 2048 & L Physics for Engr. & Sci. II & Lab 4 hrs
    Select two science courses designed for majors 3 hrs + GEP
    Examples of acceptable science courses include:
    BSC 2010C General Biology
    BSC 2011C Biological Diversity
    CHM 2045C Chem. Fund I
    CHM 2046C Chem. Fund II
15. Basic Core requirements
    COP 3330 Intro to OO Programming 3 hrs
    COP 3502C Computer Science I 3 hrs
    COP 3503C Computer Science II 3 hrs
    STA 2023 Statistical Methods I GEP
    ENC 3241 Technical Report Writing 3 hrs
    CDA 3103C Computer Organization 3 hrs
    COT 4210C Intro to Discrete Structures 3 hrs
    PHI 3626 Ethics in Science and Technology 3 hrs
    COT 3960 Foundation Exam 0 hrs
16. Intermediate Core
    COP 3402C Systems Software 3 hrs
    COP 3530C Computer Science III 3 hrs
17. Advanced Core
    Students must maintain at least a 2.5 GPA in the following courses. Only the highest grade is used in the calculation.
    CDA 4150 Comp Architecture 3 hrs
    COT 4210 Discrete Comp Structures 3 hrs
    COP 4020 Programming Languages I 3 hrs
    COP 4600 Operating Systems 3 hrs
18. 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 6 hrs courses from: STA, MAP, MAA, MAD, MAS prefixes and MAC 2313, MAP 2302, MAS 3105, and MAS 3106. No independent study hours, internship, or cooperative education courses allowed.
19. School Exit Requirements
    Complete an exit survey
    Complete an exit survey
    Computer Competency met by completion of major
20. Foreign Language Requirements
    0-4 hrs
    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.
21. Electives
    (variable)
    Select primarily from upper level courses, with the student's advisor's approval. May be outside of the department.
22. 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.
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

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.
The courses designated in section 1 below may be taken at a University/Community College System before transferring within the Florida Public University/Community College System.

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
Select CGS 1060C, STA 1060C, or STA 2014C
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites
none

3. Core Requirements
(18 hrs)
CCJ 3024 Criminal Justice System 3 hrs
CCJ 3014 Crime in America 3 hrs
CJI 3510 Prosecution and Adjudication 3 hrs
CJC 3010 Corrections and Penology 3 hrs
CJE 4014 Police and Society 3 hrs
CCJ 4701 Research Methods in Criminal Justice 3 hrs

4. Upper Division Restricted Electives
(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
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. 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

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<td>Fall</td>
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<td>ENC 1101 3</td>
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<td>CGS 1060C 3</td>
<td>MGF 1106 3</td>
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<td>LIT 2120 3</td>
<td>FYE 2110 2</td>
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<td>*Plan your required 9 summer hours into your course of study</td>
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UCF Degree Programs

UCF 123
Advanced Concentration.

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 (Computing for Media) leads to a Bachelor of Science degree; the others (Computer Animation, Digital Music, Graphic Design, 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

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
   - IDS 2020 Art as Interface 3 hrs
   - ENC 1145 Digital Rhetorics & Modern Dialectic 3 hrs
   - PHI 3262 Ethics in Sci & Technol 3 hrs
   - IDS 3683 Digital Media Production I 3 hrs
   - MUS 3111* MIDI Sequencing I 3 hrs
   - MUS 2360C Music Technology 3 hrs

   *See transfer notes for possible substitutions.

2. Digital Media Core (18 hrs)

IDS 3707 Digital Media Principles 3 hrs
ART 2020 Art as Interface 3 hrs
ENC 4415 Digital Rhetorics & Modern Dialectic 3 hrs
PHI 3262 Ethics in Sci & Technol 3 hrs
IDS 3683 Digital Media Production I 3 hrs
MUS 3111* MIDI Sequencing I 3 hrs
MUS 2360C Music Technology 3 hrs

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.

4. Digital Media Concentrations

3A: Common Program Prerequisites - Graphic Design:

IDS 3707 Digital Media Principles 3 hrs
MAC 2311 College Algebra 3 hrs
ART 2600C Introduction to Computer Graphics 3 hrs
ARH 2050 Art History I GEP
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 2500C 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)

Computer Animation (B.A.): (42 hrs)

3A: Computer Animation - Common Program Prerequisites:

IDS 3707 Digital Media Principles 3 hrs
MAC 2311 College Algebra 3 hrs
ART 2600C Introduction to Computer Graphics 3 hrs
ARH 2050 Art History I GEP
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 2500C 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 3410 History of Animated Films 3 hrs
FIL 3426C 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.

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)

Computing for Media (B.S.): (46 hrs)

3A: Computing for Media - Common Program Prerequisites:

IDS 3707 Digital Media Principles 3 hrs
MAC 2311 Calculus 3 hrs
MAC 2312 Calculus II 3 hrs
COP 2500C Concepts in Computer Science 3 hrs
COP 3502C* Computer Science I GEP
COP 2503C Object Oriented Programming 3 hrs
COP 3502C* Computer Science II GEP
COP 3502C* Computer Science III GEP

* Must be passed for admission to advanced concentration.

3B: Computing for Media - Basic Concentration:

COP 3502C Object Oriented Programming 3 hrs
COP 3502C* Computer Science II GEP
COP 3502C* Computer Science III GEP
COP 3502C* Computer Science IV GEP

3C: Computing for Media - Advanced Concentration:

Note: COP 3502C is required for these courses.

COP 3502C Computer Science III 3 hrs
COT 3960* Foundation Exam 0 hrs

Note: Sterling Van Wagenen

The UCF Degree Programs

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

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.
Select nine hours from the following:

FIL 3625 Interactive Entertainment 3 hrs
IDS 4688C Media for e-Commerce I 3 hrs
COP 2500C Concepts in Computer Science GEP

3B: Internet - Basic Concentration:

* See transfer notes for possible substitutes.

Select one course
IDS 3782C Assembling Digital Media 3 hrs
RTV 3280C Prod of Interact Media 3 hrs
IDS 3782C* UNX for Graphic Integration 1 hr
IDS 4681 Modeling for Realtime Graphics 3 hrs
IDS 4XXX Modeling for Realtime Systems II 3 hrs
IDS 3687C Digital Imagery 3 hrs
IDS 4686C Game Design 3 hrs
IDS 4687C Game Engines 3 hrs
IDS 4686C Media for E-Commerce I 3 hrs
IDS 4704 Media for E-Commerce II 3 hrs
CAP 4020 Digital Media 3 hrs
EXP 5256 Human Factors I 3 hrs
FIL 4212 Sound Design 3 hrs
IDS 3715 Visual Language of the Moving Image 3 hrs
IDS 4XXX Interactive Performance I 3 hrs
IDS 4XXX UNX for Graphic Integration 1 hr

Any 3000 or 4000 level courses included in another Digital Media Concentration or any other upper level IDS Digital Media course.

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/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 minimum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

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:
A. Communications (9 hrs)

B. Cultural-Historical Foundations* (9 hrs)

C. Mathematics (9 hrs)

D. Social Science/History (12 hrs)

E. Science (9 hrs + lab)

F. Education Courses (9 hrs)

G. Diversity Courses (6 hrs)

H. Other Program Prerequisites (6 hrs)

I. Internships (12 hrs)

J. Student Teaching (Internship II) (9 hrs)

K. Core Courses (6 hrs)

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 (9 hrs)

B. Cultural-Historical Foundations (9 hrs)

C. Mathematical Foundations* (6 hrs)

D. Social Foundations (6 hrs)

2. Common Program Prerequisites (25 hrs)

A. Communications (9 hrs)

B. Humanities (6 hrs)

C. Mathematics* (9 hrs)

D. Social Science/History (12 hrs)

E. Science (9 hrs + lab)

F. Education Courses (9 hrs)

G. Diversity Courses (6 hrs)

H. Other Program Prerequisites (6 hrs)

I. Internships (12 hrs)

J. Student Teaching (Internship II) (9 hrs)

K. Core Courses (6 hrs)

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 (9 hrs)

ENC 1101 Composition I

ENC 1102 Composition II

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)

PSY 2012 General Psychology

E. Science (6 hrs)

Select one:

PHI 2010 Introduction to Philosophy

STA 2014C Principles of Statistics

Select one:

AMH 2010 U.S. History 1492-1877

AMH 2020 U.S. History 1877-Present

E. Science (9 hrs + lab)

F. Education Courses (9 hrs)

G. Diversity Courses (6 hrs)

H. Other Program Prerequisites (6 hrs)

I. Internships (12 hrs)

J. Student Teaching (Internship II) (9 hrs)

K. Core Courses (6 hrs)
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

E. Viltes, Liberal Studies advising team, 407-823-0144

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

- 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
   - B. Cultural and Historical Foundations
   - C. Mathematical Foundations
   - D. Social Foundations
   - E. International Option—Select six courses

2. Common Program Prerequisites (18 hrs)
   - Select ECO 2013* Macroeconomics 3 hrs
   - Select MAC 1105 College Algebra 3 hrs
   - Select STA 201LC Principles of Statistics 3 hrs
   - Select ECO 2013 Macroeconomics 3 hrs

3. Core requirements (15 hrs)
   - ECO 3003 International Economics
   - ECO 3723 International Commercial Policy
   - ECO 4701 The Global Economy
   - ECS 4003 Comparative Economic Systems
   - ECS 4013 Economic Development
   - ECS 4231 The Japanese Economy
   - ECS 4303 Economics of European Integration
   - ECS 4304 Economics of the Pacific Rim
   - ECS 4310 The Chinese Economy
   - ECS 4442H Economic Development of Mexico and Central America
   - ECO 4941 Economics Internship

4. Upper Division Restricted Electives (variable)

   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 departmental 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.
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: Economics BS
Related Minors: Computer Science, Economics, Mathematics, Political Science, Psychology, Sociology, Statistics

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:

- ECO 2013* & 2023*: Any lower level Economics course.
- However ECO 2013 and 2023 are prerequisites for all subsequent economics courses and will need to be taken.

ECONOMICS (B.S.B.A.)

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

http://www.bus.ucf.edu

R. Pennington; (407) 823-2640, rpennington@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
   - Foundation Electives
B. Cultural and Historical Foundations 9 hrs
   - Culture Electives
C. Mathematical Foundations 3 hrs
   - Mathematics Electives
D. Social Foundations 3 hrs
   - Social Sciences Electives
E. Science Foundation 6 hrs
   - Science Electives

2. Common Program Prerequisites

Must be completed with a “C” (2.0) or better.

AGS 2021 Principles of Financial Accounting
AGS 2071 Principles of Managerial Accounting
ECS 2023 Microeconomics
ECS 2200C Computer Fundamentals for Business
*ECO 3401 Quantitative Business Tools I

* 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 6 hrs
GEB 3356 Introduction to International Business 3 hrs

First or subsequent semesters depending on major:

BUL 3130 Legal & Ethical Environ. of Business 3 hrs
ECS 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 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.
- Final exams will be given during Exam Week.
- Students must have at least a 2.0 GPA in the COB.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must complete 60 credit hours in courses outside the College of Business.

5. Required Major Courses (9 hrs)

ECO 3101 Intermediate Price Theory 3 hrs
ECO 3203 Aggregate Econ Conditions Analysis 3 hrs
ECO 4451 Research Methods in Economics 3 hrs

6. Upper Division Restricted Electives (18 hrs)

All economics majors will be required to take six (6) electives by choosing one of the following three options:

a. Standard Option - Select any six (6) 3000-4000 level economics courses other than the three required above.

b. International Option - Select any six (6) courses from the following list:

ECS 4231 Japanese Prosperity
ECS 4252 International Accounting
ECO 4701 The Global Economy
FIN 4604 International Financial Management
MAN 4600 International Management
MAR 4156 International Marketing

NOTE: required for Business-ECO-IB track.

7. Economics Track: International Business

Required Courses* 9 hrs

- ECO 3101 Intermediate Price Theory
- ECO 3203 Aggregate Economic Conditions Analysis
- ECO 4451 Research Methods in Economics

Required International Courses** 9-15 hrs

- ACG 4262 International Accounting
- ECO 4701 The Global Economy
- FIN 4604 International Financial Management
- MAN 4600 International Management
- MAR 4156 International Marketing

Electives*** 3-9 hrs

- ECS 4231 Japanese Prosperity
- ECS 4204 Economies of the Pacific Rim
- ECS 4003 Comparative Economic Systems
- ECS 3703 International Economics
- ECS 4013 Economic Development
- ECS 3723 International Commercial Policy
- ECS 4303 Economics of European Integration
- ECS 4210 Chinese Economy
- ECS 4442H Economic Development of Mexico and Central America

*Requires special approval
** Required international + electives must add up to 18 hours
*** IB 2000 may be used for up to 6 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 Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Tools I.
  - Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
  - ACG X001 and X011 will substitute for ACG 2021 at UCF.
  - 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 AntMusicLit 3
***Elective 3 ***Elective 3
***Elective 3 CGS 2100C* 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 ACG 2071* 3
Science 3 Science 3
Psy/Soc/Ant 3 ***Elective 3
***Elective 3 ECO 3401* 3
* "C" (2.0) or better grade required in each class

Junior
Fall 15 hrs Spring 15 hrs
GEB 3303 6 ECO 3411 3
GEB 3356 3 MAN 3026 3
MAR 3023 3 ECO 3203 3

Senior
Fall 15 hrs Spring 15 hrs
ECO Elective 3 MAN 4720 3
ISM 3011 3 ***Elective 3
BUL 313D 3 ECO Elective 3
ECO Elective 3 ECO 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).

D. Social Foundations 6 hrs
1. Take ECO 2013 or ECO 2023.

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-
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.

CHS 1440 Fundamentals of Chemistry for Eng 4 hrs
(MAC 2313 will substitute above)

MAC 2281 Calculus for Scientists & Engineers I 4 hrs
(MAC 2311 will substitute above)

MAC 2282 Calculus for Scientists & Engineers II 4 hrs
(MAC 2312 will substitute above)

MAC 2283 Calculus for Scientists & Engineers III 4 hrs

MAP 2302 Differential Equations 3 hrs

PHY 2048/48L Physics for Engineers & Scientists I GEP

PHY 2049/49L Physics for Engineers & Scientists II 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 (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.

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 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 3370 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 Cmptr Sys 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. 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 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

FIRST YEAR
Fall 12 hrs1 Spring 15 hrs1
EGN 1006C Intro to Eng Engr 1 EGN 3307C Eng Conc & Meth 1
*MAC 2281 Calc Sci & Eng I 4 *ENC 1101 English Comp I 3
*MAC 2282 Calc Sci & Eng II 4

Summer 11 hrs1 1 *Cult & Hist Foundations 1a 3
*PHY 2048/L Phys Eng I w/lab 4

SECOND YEAR
Fall 15 hrs1 1 EGN 3420 Engineering Analysis 3
*MAC 2283 Calc Sci & Eng III 4
*PHY 2049 Phys for Engr/Sci II 3
*PHY 2049L Phys Lab Engr/Sci I 1

Summer 6 hrs1 1 *Cult & Hist Foundations 1b 3
*Eco 2033 Microeconomics or
*Eco 2023 Microeconomics

THIRD YEAR
Fall 14 hrs3 Spring 13 hrs
EEL 3306 Semicond Devices I 3 EEL 3307C Electrons I 4
*MAC 2283 Calc Sci & Eng III 4
STA 3323 Probe & Stats Engrs 3
*MAC 2282 Calc Sci & Eng II 4
EEL 4750C Digital Signal Proc Fund 3
EEE 3123C Networks and Systems 4

FOURTH YEAR
Fall 14 hrs3 Spring 13 hrs
EEL 3552C Sig Anal&Comm 4 Approved Technical Elective 3
EEL 3470C Electromagnetic Fields 4 Approved Technical Elective 3
EEL 4309C Electronics II 4

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

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 - MICROELECTRONICS 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 Systems should complete the GEP and the Common Program Prerequisites before transferring. See the course descriptions.

   A. Communication Foundations (9 hrs)
   1. Take ENC 1101
   2. Take ENC 1102
   3. Prefer ENC 1101

   B. Cultural and Historical Foundations (7 hrs)
   1. Take MAC 2281, Calculus for Scientists and Engineers I. (4 hrs).

   C. Mathematical Foundations (9 hrs)
   1. Take STA 3023 (3 hrs).

   D. Social Foundations (6 hrs)
   1. Take ECO 2013 or ECO 2023.

   E. Science Foundations (7 hrs)
   1. Take PHY 2048L
   2. Prefer PHY 2048L

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.

   - CHS 1440 Fundamentals of Chemistry for Engineering (4 hrs)
   - MAC 2281 Calculus for Scientists & Engineers I (CHM 2045/45L will substitute) (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 2048L Physics for Engineers & Scientists I (4 hrs)
   - ENC 1101 Composition I (4 hrs)
   - ENC 1102 Composition II (4 hrs)
   - Humanities Courses (4 hrs)
   - Social Science Courses (4 hrs)
   - Humanities or Social Sciences (4 hrs)

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 3385 Thermo-Fluids-Heat Transfer 3 hrs
   - EGN 3420 Engineering Analysis 3 hrs
   - STA 3032 Probability & Statistics for Engineers 3 hrs
   - PHY 3101 Physics for Engineers & Scientists III 3 hrs
   - EEL 3004 Electrical Networks 3 hrs
   - EEL 3122C 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 & 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 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 4915 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.
   - 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 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 by the student and 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-
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.

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.
4. MAC 2311 Calculus I will substitute for MAC 2313 Calculus II.
5. MAC 2312 Calculus II will substitute for MAC 2313 Calculus III.
6. PHY 2048/L and PHY 2049/L both satisfy the UCF General Education Program (GEP) 3-credit hour requirement for UCF Electrical and Computer Engineering students.
7. Students transferring to UCF from other Florida post-secondary schools and may be transferred to UCF Engineering programs. All engineering students must remain in the UCF General Education Program (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 may complete the GEP and the Common Program Prerequisites before transferring.

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 other Florida post-secondary schools and may be transferred to UCF Engineering programs. All engineering students must remain in the UCF General Education Program (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 may complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations 9 hrs
1. ENC 1101 Composition I 3
2. ENC 1102 Composition II 3

B. Cultural and Historical Foundations 7 hrs
1. MAC 2281 Calculus for Scientists and Engineers I (4 hrs).

C. Mathematics Foundations 7 hrs
1. MAC 2282 Calculus for Scientists and Engineers II (4 hrs).

D. Natural Foundations 6 hrs
1. EEL 3370 Electrical Electronics I 3
2. ENC 1102, the Humanities courses, and the Social Science courses.

E. Science Foundations 7 hrs
1. MAC 2283 Calculus for Scientists and Engineers III (4 hrs).

2. Common Program Prerequisites (CPP's) (19 hrs)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. 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.

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.

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.
4. MAC 2311 Calculus I will substitute for MAC 2313 Calculus II.
5. MAC 2312 Calculus II will substitute for MAC 2313 Calculus III.
6. PHY 2048/L and PHY 2049/L both satisfy the UCF General Education Program (GEP) 3-credit hour requirement for UCF Electrical and Computer Engineering students.
7. Students transferring to UCF from other Florida post-secondary schools and may be transferred to UCF Engineering programs. All engineering students must remain in the UCF General Education Program (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 may complete the GEP and the Common Program Prerequisites before transferring.

A. Communication Foundations 9 hrs
1. ENC 1101 Composition I 3
2. ENC 1102 Composition II 3

B. Cultural and Historical Foundations 7 hrs
1. MAC 2281 Calculus for Scientists and Engineers I (4 hrs).

C. Mathematics Foundations 7 hrs
1. MAC 2282 Calculus for Scientists and Engineers II (4 hrs).

D. Natural Foundations 6 hrs
1. EEL 3370 Electrical Electronics I 3
2. ENC 1102, the Humanities courses, and the Social Science courses.

E. Science Foundations 7 hrs
1. MAC 2283 Calculus for Scientists and Engineers III (4 hrs).

2. Common Program Prerequisites (CPP's) (19 hrs)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. 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.

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.

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.
4. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

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.

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.
4. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

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.

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.
4. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

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.

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Assumes knowledge of a higher level programming language (C preferred).
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.
4. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

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.
neering 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 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics or
EGN 3380 Thermo-Fluids-Heat Transfer 3 hrs
EGN 3420 Engineering Analysis 3 hrs
ST 3032 Probability & Statistics for Engineers GEP
PHY 3101 Physics for Engineers & Scientists III 3 hrs
EEL 3304 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 3575 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. above.

EEL 4512C Communication Systems 4 hrs
EEL 5555C RF and Microwave Communications 3 hrs
EEL 5513 Digital Signal Processing Apps or
EEL 5462C Antenna Analysis and Design 3 hrs

5. Departmental Graduation Requirements (6 hrs)

- EEL 4904 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

128 semester hours required

FIRST YEAR

Fall 12 hrs 13
EGN 1006C Intro to Engr 1
*ENC 1101 English Comp I 3
*CHS 1440 Chem for Engrs 4
MAC 2281 Calc Sci & Eng I 4
*PHY 2048L Phys Eng I w/lab 4

Spring 15 hrs 13
EGN 1007C Eng Conc & Meth 1
*ENC 1102 English Comp II 3
*ENC 1102 English Comp II 3
*SPC 1016 Tech Presentations 3
MAC 2281 Calc Sci & Eng II 4
*PHY 2049L Phys Eng I w/lab 4

SECOND YEAR

Fall 15 hrs 1
*MAP 2302 Diff Equations 3
*PHY 3101 Phys Engr/Sci III 3
*Science Foundations 2 3
*Social Foundations 1 3
EGN 3420 Engineering Anal 3
EGN 3304 Electrical Networks 3

Spring 15 hrs 1
*Eng & Hist Foundations 1a 3
* Engl Anal-Statics 3
EEL 3342C Intro to Dig Circ/Sys 3
EEL 3801C Intro to Compgr 3
EEL 3123C Networks and Systems 4
EGN 3310 Engr Anal-Statics 3
EGN 335B Ther-Flds-Ht Transfer 3

THIRD YEAR

Fall 14 hrs 13
EEL 3306 Semicond Devices I 3
STA 3032 Prob & Stats for Engr 3
EEL 4767C Cmptr Sys Design I 3
EEL 4750 Dig Signal Proc Fund 3
EEL 3123C Networks and Systems 4
EEL 4309C Electromagnetic Fields 3

Spring 13 hrs
EEL 3307C Electronics I 4
EEL 3342C Intro to Dig Circ/Sys 3
EEL 3801C Intro to Compgr 3
EEL 3355B Ther-Flds-Ht Transfer 3

FOURTH YEAR

Fall 14 hrs
EEL 3552C Sig Anal&Comm 3
EEL 3470 Electromagnetic Flds 3
EEL 4309C Electronics II 4
EEL 4914 Senior Design I 3
EEL 5513 Dig Sig Proc Apps 3

Spring 13 hrs
EEL 4512C Comm Systems 4
EEL 4915L Senior Design II 3
EEL 5513 Dig Sig Proc Apps 3
EEL 5462C Ant Anal & Design 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. 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: Alireza Rahrooh
407-823-4749 Fax: 407-823-4746
E-mail: rahrooh@pegasus.cc.ucf.edu
http://www.ent.ucf.edu

Admission Requirements

Degree Requirements

- Students should check with their ENT 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
     - Take ENC 1101, ENC 1102
     - 9 hrs
   - B. Cultural and Historical Foundations
     - 9 hrs
   - C. Mathematical Foundations
     - 1. MAC 1105
     - 3 hrs
     - 2. CGS 1060C or STA 2014C
     - 3 hrs
   - D. Social Foundations
     - 6 hrs
   - E. Science Foundations
     - 1. BSC 1005&L, BSC 1050&L, or GEO 1200&L
     - 4 hrs
     - 2. PHY 2053C
     - 4 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)
   - MAC 2253 or MAC 2311
   - 3/4 hrs
   - or MAC 254
   - 3/4 hrs
   - or MAC 2312
   - or PHY 2053C
     - Physics I & Lab
     - GEP
   - or PHY 2048/L

3. Engineering Technology Core Requirements (27/28 hrs)
   - BSC 1005&L, BSC 1050&L, or GEO 1200&L
     - 4 hrs
   - ENC 1101, ENC 1102
     - 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
     - CPC
   - PHY 2340C
     - 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 Engng Quality Assurance
     - 3 hrs
   - ETI 4448
     - Applied Project Management
     - 3 hrs

4. Technical Specialization (53 hrs)
   - Lower Level Required and Elective Courses (18 hrs)
     - EST 3543C
       - Programmable Logic Controllers
       - 3 hrs
     - CET 3123C
       - Digital Technology
       - 4 hrs
     - CET 3164
       - System Applications in C
       - 3 hrs
     - CET 3095C
       - Electricity and Electronics
       - 4 hrs
     - EET 1025C
       - AC Circuits
       - 4 hrs

   - Upper Level Required Courses (30 hrs)
     - CET 4198C
       - Digital Systems
       - 3 hrs
     - CET 4003
       - 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

   - Upper Level Technical Electives (6 hrs)
     - See faculty advisor for list of approved Technical Electives.

5. Departmental Exit Requirement (3 hrs)
   - ETG 4950C Senior Design Project
     - 3 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

7. Approved Technical Electives
   - Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Graduation Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after any CLEP award
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - 25% of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hours

Related Programs: Electrical Engineering Technology (Electrical Systems Concentration)
Related Minors: none

Transfer Notes:
- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department
- PHY 2048/L can substitute for PHY 2053C.

Tentative Course Schedule for the Computer Systems Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.
1. UCF General Education Program (38 hrs)
   - A. Communication Foundations: 9 hrs
     - Select ENC 1101, 1102
     - Prefer SPC 1016
   - B. Cultural and Historical Foundations: 9 hrs
   - C. Mathematical Foundations:
     - 1. MAC 1105 3 hrs
     - 2. COS 1060C or STA 2014C 3 hrs
   - D. Social Foundations: 6 hrs
   - E. Science Foundations:
     - 1. BSC 1005&L, BSC 1050&L or GEO 1200&L 4 hrs
     - 2. PHY 2053C 4 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)
   - MAC 2253 or MAC 2311 3/4 hrs
   - MAC 2524 or MAC 2312 3/4 hrs
   - PHY 2053C or PHY 2046L 3/4 hrs

3. Engineering Technology Core Requirements (27/28 hrs)
   - BSC 1005/L, BSC 1050/L, GEO 1200/L GEP
   - MAC 2311, MAC 2312
   - MAP 3401, PHY 2053C, PHY 2054C, ETG 3541
   - EET 3503, EET 3716, CET 3116, CET 4448

4. Technical Specialization (55-57 hrs)
   - Lower Level Required and Elective Courses (26 hrs)
   - EET 3043C, CET 3323C, CET 3191C, CET 3193C
   - CET 3503, CET 3144C, CET 4134C, EET 3716
   - EET 4193C, EET 4549, EET 4732C
   - CET 4134C, CET 4448, CET 4393C, CET 4359C

5. Upper Level Required Courses (21 hrs)
   - CET 3198C, CET 3503, CET 3144C, CET 4134C
   - EET 3716, EET 4193C, EET 4549, EET 4732C
   - CET 3503

5. Upper Level Technical Electives (7 hrs)
   - Select 7 hours from courses listed below:
     - CE/CEET 4138
     - CET 3333
     - CET 4931
     - EET 4393C
     - EET 4359C

6. Departmental Exit Requirement (3 hrs)
   - EET 4950C Senior Design Project
   - A grade of 2.0 or better is required in all prerequisites.

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

Total Semester Hours Required: 128 hours

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 can substitute for PHY 2053C.

Tentative Course Schedule for the Electrical Systems Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

### Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>13/14 hrs</td>
<td>15/16 hrs</td>
</tr>
<tr>
<td>MAC 2253 Applied Calc I or MAC 2312 Calculus II 3/4 hrs</td>
<td>MAP 3401 Problem Analysis 3/4 hrs</td>
</tr>
<tr>
<td>CET 3198C Digital Systems 3 hrs</td>
<td>EET 3541 Applied Mechanics 3 hrs</td>
</tr>
<tr>
<td>CET 3503 Digital Systems Technology I 3 hrs</td>
<td>CET 3503 Microcomputers Tech I 3 hrs</td>
</tr>
<tr>
<td>CET 3144C Applied Microprocessor Technology II or CET 4134C Microcomputer Electronics II 3 hrs</td>
<td>PHY 2054C/2054 Physics II 3 hrs</td>
</tr>
<tr>
<td>EET 3716 Network Analysis 3 hrs</td>
<td>ETI 3671 Technical Economic Analysis 3 hrs</td>
</tr>
<tr>
<td>EET 4193C Linear Integrated Circuits 3 hrs</td>
<td>CET 3503 Microcom Tech I 3 hrs</td>
</tr>
<tr>
<td>EET 4549 Power Systems 3 hrs</td>
<td>PHY 2054C/2054 Physics II 4 hrs</td>
</tr>
<tr>
<td>EET 4732C Feedback Control Systems 3 hrs</td>
<td>ETI 3671 Technical Economic Analysis 2 hrs</td>
</tr>
</tbody>
</table>

### Summer

- 67 hrs
- CET/EET Elective 3/4 hrs
- ETI 4448 Applied Project Management 3 hrs

### Senior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 hrs</td>
<td>13 hrs</td>
</tr>
<tr>
<td>EET 4549 Power Systems 3 hrs</td>
<td>EET 4500C Sr. Design Proj 3 hrs</td>
</tr>
<tr>
<td>EET 4134C Linear Int Circ 3 hrs</td>
<td>CET/EET Approved Elective 3 hrs</td>
</tr>
<tr>
<td>ETI 3116 App Eng Quality Assur 3 hrs</td>
<td>ENC 3241 Writing Tech Pros 3 hrs</td>
</tr>
</tbody>
</table>

### Electrical Engineering Technology (BSEE) AS to BSEE TRACK

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   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:
      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:
      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   3 hrs
      ENC 1102 Composition II   3 hrs
      SPC 1600 Fundamentals of Oral Communication   3 hrs
   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 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
      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   3 hrs
      AMH 2020 U.S. History 1877-Present   3 hrs
      POS 2041 American National Government   3 hrs
      PSY 2012 General Psychology   3 hrs
   E. Science (9 hrs + lab)
      PSC 1121 Physical Science   3 hrs
      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 100LL 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

Note: See laboratory component under Section 2.

3. Education Preprofessional Requirements (4 hrs)
   EME 2040 Technology for Educators   3 hrs
   G. Diversity Courses   GEP
   H. Other Program Prerequisites (6 hrs)
   Students must select an additional six hours in courses in the following liberal arts and sciences areas: communications, mathematics, natural and/or physical sciences, fine arts and/or humanities, and social sciences.

4. Recommended Sequence

Semester I (Internship Block) 12 hrs
EDG 3442 Internship I   3 hrs
   ■ 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)   3 hrs
   MAE 4326 How Children Learn Math   3 hrs
   EEK 4003 Teaching/Management T&I Ed Student in the Regular Setting   3 hrs

Semester II (15 hrs)
EDG 4323 Professional Teaching Practices   3 hrs
EDF 4214 Classroom Learning Principles   3 hrs
LAE 3414 Children's Literature   3 hrs
RED 3012 Foundations of Reading (required prior to Internship I)   3 hrs
TSL 4080 Theory and Practice of Teaching ESL in the Regular Setting   3 hrs

Semester III (15 hrs)
EDG 4324 Professional Teaching Practices   3 hrs
LAE 3414 Children's Literature   3 hrs
RED 3012 Foundations of Reading (required prior to Internship I)   3 hrs

Semester IV (12 hrs)
EDF 4214 Classroom Learning Principles   3 hrs
LAE 3414 Children's Literature   3 hrs
RED 3012 Foundations of Reading (required prior to Internship I)   3 hrs

Note: RED 4519, MAE 4326, and EEK 4003 are taken concurrently with EDE 3942

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

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
   1. UCF General Education Program (38 hrs)
      Students should check with their ENT faculty advisor frequently to develop a plan to complete 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.

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 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 2233/2311 Calculus I 3/4 hrs MAP 3401 Problem Analysis 3 hrs
ETG 3541 Appl Mechanics 3 hrs ETC 4206 Construction Estimating 3 hrs
ETG 3533C Appl Strength of Materials 3 hrs
ETI 3418C Computer Numericals 3 hrs
COP 3224 C Language or equiv 3 hrs
ETG 4950C Senior Design Project 3 hrs
EET 3316 Engnr Quality Assurance 3 hrs
EST 4206 Construction Estimating 3 hrs
ETG 3541 App Eng Qual Assur 3 hrs
ETG 3533C Eng Strength of Mat 4 hrs
PHY 2053C/2054 Physics I 3/4 hrs
PHY 2053C/2048 Physics I 3/4 hrs
EET 3316 Engnr Quality Assurance 3 hrs
ETG 3541 Appl Mechanics 3 hrs
ETG 3533C Appl Strength of Materials 3 hrs
ETI 3418C Computer Numericals 3 hrs

Upper Level Technical Elective (Select 5) 12 hrs
ETC 4206 Construction Estimating 3 hrs
ETC 4241C Construction Materials & Methods 3 hrs
ETC 4242 Construction Contracts & Spec 3 hrs
ETC 4243 Building Systems 3 hrs
ETC 4414C Applied Structural Design I 3 hrs
ETC 4415C Applied Structural Design II 3 hrs
ETM 4331C Applied Fluid Mechanics 4 hrs
ETM 4512C Applied Design of Machine Elements 3 hrs
ETI 3418C Computer Numericals 3 hrs

Total: 109-110 hrs

Graduation:

- A 2.0 or better is required in all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.
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 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

ENC 1101, ENC 1102

9 hrs

B. Cultural and Historical Foundations

MAC 2311 or Calculus I 3 hrs

MAC 2312

Calculus II or equiv 3 hrs

MAC 2313

Calculus III or equiv 3 hrs

PHY 2053 or Calculus Lab or PHY 2048/L 4 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)

3. Engineering Technology Core Requirements (23-24 hrs)

ANT 2511, BSC 1005, BSC 1050, GEO 1200, GEO 2370, or GLY 1030

GEP

ENC 3241 Writing for the Technical Professional 3 hrs

MAC 1105 College Algebra GEP

MAC 1114 College Trigonometry 3 hrs

MAC 2253 or Calculus I 4 hrs

MAC 2311

Calculus II or equiv 4 hrs

MAP 3401 Problem Analysis or

4 hrs

MAC 2312

Calculus III 3 hrs

PHY 2053C College Physics I 4 hrs

ETG 3541 Applied Mechanics 4 hrs

ETI 3651C Computer Applications 3 hrs

ETI 3671 Technical Economic Analysis 2 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 1052, 1032L General Chemistry, Lab 4 hrs

COP 2223 C Language or equiv 3 hrs

EET 3056C Electricity and Electronics 4 hrs

ENG 3111C Engr Computer Graphics 2 hrs

Approved Lower Level Technical Electives 12 hrs

Upper Level Required Courses (21 hrs)

ETI 4502C Mgt. & Information 4 hrs

ETD 3350C Applied CAD 3 hrs

ETG 3353C Applied Engineering Strength of Materials 4 hrs

ETI 3421 Materials & Processes 3 hrs

ETM 4220 Applied Energy Systems 4 hrs

ETI 4448 Applied Project Management 3 hrs

Upper Level Technical Elective (Select 5) (12 hrs)

ETI 3690 Technical Sales 3 hrs

ETI 4186 Applied Reliability 3 hrs

ETI 4225 Applied Logistics 3 hrs

ETI 4640 Process Planning & Work Measurement 3 hrs

ETI 4661C Applied Facilities Planning & Design 3 hrs

ETM 4331C Applied Fluid Mechanics 4 hrs

ETI 3418C Computer Numerical Controls 3 hrs

5. Departmental Graduation Requirement

ETG 4950C Senior Design Project 3 hrs

A grade of 2.0 or better is required for all prerequisites.

6. Foreign Language Requirements

(0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements

■ A 2.0 UCF GPA

■ 60 semester hours earned after any CLEP award

■ 48 semester hours of upper division credit completed

■ 30 of the last 36 hours of course work must be completed in residency at UCF

■ 25% of course work must be completed in residency at UCF

■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

■ Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required 128 hours

Related Programs: Engineering Technology (Operations Concentration), Related Minors: none

Transfer Notes:

■ Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution 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.

Senior Year

Fall 15 hrs Spring 15 hrs

ETI 3421 Materials & Processes 3 hrs

ETM 4220 Applied Energy Systems 4 hrs

ETI 4448 Applied Project Management 3 hrs

Upper Level Technical Electives (Select 5) (12 hrs)

ETI 3690 Technical Sales 3 hrs

ETI 4186 Applied Reliability 3 hrs

ETI 4225 Applied Logistics 3 hrs

ETI 4640 Process Planning & Work Measurement 3 hrs

ETI 4661C Applied Facilities Planning & Design 3 hrs

ETM 4331C Applied Fluid Mechanics 4 hrs

ETI 3418C Computer Numerical Controls 3 hrs

ETG 4950C Senior Design Project 3 hrs

A grade of 2.0 or better is required for all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements

■ A 2.0 UCF GPA

■ 60 semester hours earned after any CLEP award

■ 48 semester hours of upper division credit completed

■ 30 of the last 36 hours of course work must be completed in residency at UCF

■ 25% of course work must be completed in residency at UCF

■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

■ Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required 128 hours

Related Programs: Engineering Technology (Operations Concentration), Related Minors: none

Transfer Notes:

■ Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution 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.

Senior Year

Fall 15 hrs Spring 15 hrs

ETI 3421 Materials & Processes 3 hrs

ETM 4220 Applied Energy Systems 4 hrs

ETI 4448 Applied Project Management 3 hrs

Upper Level Technical Electives (Select 5) (12 hrs)

ETI 3690 Technical Sales 3 hrs

ETI 4186 Applied Reliability 3 hrs

ETI 4225 Applied Logistics 3 hrs

ETI 4640 Process Planning & Work Measurement 3 hrs

ETI 4661C Applied Facilities Planning & Design 3 hrs

ETM 4331C Applied Fluid Mechanics 4 hrs

ETI 3418C Computer Numerical Controls 3 hrs

ETG 4950C Senior Design Project 3 hrs

A grade of 2.0 or better is required for all prerequisites.
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

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
   ENC 1101, ENC 1102 9 hrs
   Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs

C. Mathematical Foundations
   MAC 1105 3 hrs
   CGS 1005&L, STA 2014C, or STA 1060C 3 hrs

D. Social Foundations 6 hrs

E. Science Foundations
   PHY 2053C or PHY 2048 4 hrs
   MAC 2253 or MAC 2254 4 hrs
   MAC 2311 3 hrs
   PHY 2053C or PHY 2048L 4 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)

MAC 2233 or Calculus I 3/4 hrs
MAC 2234 or MAC 2312 3/4 hrs
PHY 2053C or MAC 2312 Calc II 3/4 hrs
GE P

3. Engineering Technology Core Requirements (23 hrs)

AST 2002 Astronomy 3 hrs
ENC 3241 Writing for the Technical Professional 3 hrs
MAC 1105 College Algebra GEP 3 hrs
MAC 2114 College Trigonometry 3 hrs
MAC 2253 or Calculus I CPP 3 hrs
MAC 2311 3 hrs
MAP 3401 Problem Analysis or CPP 3 hrs
MAC 2312 Calculus II 3 hrs
PHY 2053C or Calculus II 3 hrs
ETG 3541 Applied Mechanics 3 hrs
ETG 3561C Computer Applications 3 hrs
ETI 3671 Technology Administration 3 hrs

4. Technical Specialization (58 hrs)

Lower Level Required and Elective Courses (25 hrs)

EST 343C Prog Logic Controllers 3 hrs
CHM 1322, 1322L General Chemistry with Lab 4 hrs
CET 2364 Systems Appl. in C 3 hrs
EET 2085C Electricity and Electronics 4 hrs
EGN 1111C Eng Computer Graphics 2 hrs
Approved Lower Level Technical Electives 9 hrs

Upper Level Required and Elective Courses (21 hrs)

EST 4520C Metrology & Instrumentation 4 hrs
ETD 3350C Applied CAD 3 hrs
ETG 3533C Applied Engineering Strength of Materials 4 hrs
ETM 4220 Applied Energy Systems 4 hrs
ETI 4438C Launch Processing Technology 3 hrs
ETI 4836 Space Systems Technology 3 hrs

Upper Level Technical Electives (Select 4) (12 hrs)

ETI 4438 Technology of Small Space Payloads 3 hrs
ETM 3XXX Space Materials Technology 3 hrs
ETM 4858 Space Flight Dynamics Technology 3 hrs
ETI 4835 Rocket Propulsion Technology 3 hrs
ETI 4839 Space Electro-Optics Technology 3 hrs
ETI 4150 spacecraft QA and Testing 3 hrs
ETI 4361 Ground System Design 3 hrs
ETM 4XXX Space Biotechnology 3 hrs
ETM 4XXX Space Power Systems 3 hrs

5. Departmental Graduation Requirement (3 hrs)

ETG 4950C Senior Design Project 3 hrs

A grade of 2.0 or better is required for all prerequisites.

6. Foreign Language Requirements (0-8 hrs)

Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

7. Approved Technical Electives

Students should consult with the ENT Department for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

8. University Minimum Graduation Requirements

A 2.0 UCF GPA

60 semester hours earned after any CLEP award

48 semester hours of upper division credit completed

30 of the last 36 hours of course work must be completed in residency at UCF

25% of course work must be completed in residency at UCF

A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required 128 hours

Related Programs: Engineering Technology (Operations Concentration).

Related Minors: none

Transfer Notes:

Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.

Students entering a UCF undergraduate program have a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)

Courses taken from Community Colleges do not substitute for Upper Division Courses.

Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.

ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly scheduled 3000- or 4000-level courses taken from the UCF ENT Department.

PHY 2048L and 2049L substitute for PHY 2053C and PHY 2054C respectively.

Tentative Course Schedule for the Space Systems Concentration

The tentative course schedule listed below is a guide for those students who plan on completing their upper division engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering students should meet with their faculty advisor to develop and maintain an appropriate plan of study.
Students who change degree programs and select this major

Degree Requirements

Admission Requirements

P. Murphy, 407-823-2212
E-mail: english@ucf.edu
http://english.ucf.edu

Senior Year

Fall 13 hrs Spring 13 hrs

ENL 4333 Shakespeare
ENL 4311 Chaucer
AML 3051 American Literature II
AML 3031 American Literature I

Choose four of the following: 12 hrs

ENG 3014 Theory & Tech of Literary Study
CRW 3013 Creative Writing for English Majors

Choose two of the following: 6 hrs

CRW 4122 Adv Fiction Writing Workshop
CRW 4223 Adv Poetry Writing Workshop
CRW 4224 Adv Creative Nonfiction Writing

Choose one of the following: 3 hrs

CRW 4554 Advanced Feminist Theory

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
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 Creative Writing if taken prior to transferring to UCF:

- ENC 1101* & 1102*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. ENC 1101 & 1102, however, are prerequisites for all subsequent English courses and will need to be taken for the major.
### Course Offerings

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>LIT 4374</td>
<td>Literature of the Bible</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIT 4303</td>
<td>Post-World War II Fiction</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIT 4184</td>
<td>Irish Literature</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIT 4043</td>
<td>Modern Drama as Literature</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIT 4184</td>
<td>Modern Drama as Literature</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENL 4273</td>
<td>Modern British Literature</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENL 4262</td>
<td>Nineteenth Century British Prose</td>
<td>3 hrs</td>
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<tr>
<td>ENL 4253</td>
<td>Victorian Age: Poetry</td>
<td>3 hrs</td>
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<tr>
<td>ENL 4240</td>
<td>English Romantic Writers</td>
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<tr>
<td>ENL 4212</td>
<td>English Literature I</td>
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<td>ENL 4211</td>
<td>English Literature II</td>
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<td>ENL 4101</td>
<td>English Novel</td>
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<tr>
<td>ENL 4220</td>
<td>English Renaissance Poetry and Prose</td>
<td>3 hrs</td>
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<tr>
<td>ENL 4230</td>
<td>Eighteenth Century Studies</td>
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<tr>
<td>ENL 4240</td>
<td>English Romantic Writers</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENL 4253</td>
<td>The Victorian Age: Poetry</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENL 4262</td>
<td>Nineteenth Century British Prose</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENL 4273</td>
<td>Modern British Literature</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIT 4374</td>
<td>Caribbean Literature</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIT 4043</td>
<td>Post-World War II Fiction</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIT 4184</td>
<td>Irish Literature</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIT 4374</td>
<td>Literature of the Bible</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### Admission 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.

### Honors in English Degree

**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**
  - Select SPC 1000 Fund of Oral Com
- **B. Cultural and Historical Foundations**
  - Select MGF 1106 Finite Mathematics
- **C. Mathematical Foundations**
  - Prefer STA 1060C Statistics Using Excel
- **D. Social Foundations**
  - Select one of the following gateway courses: 3 hrs
- **E. Science Foundations**
  - Select one of the following gateway courses: 3 hrs

### 2. Common Program Prerequisites

- ENC 1101* Composition I GEP
- ENC 1102* Composition II GEP

### 3. Core Requirements (15 hrs)

Choose five literary history courses, two of which must focus entirely on early literature (pre-1865).

- **Choose one of the following gateway courses:** 3 hrs
- **Choose one upper level course:** 3 hrs
- **Choose one of the following courses:** 3 hrs
- **Choose one of the following courses:** 3 hrs
- **Choose one of the following courses:** 3 hrs

### 4. Upper Division Restricted Electives (21 hrs)

- **Choose one of the following gateway courses:** 3 hrs
- **Choose one upper level course:** 3 hrs
- **Choose one of the following courses:** 3 hrs
- **Choose one of the following courses:** 3 hrs
- **Choose one of the following courses:** 3 hrs

### 5. Departmental Exit Requirements

- **Maintain a minimum GPA of 2.0 in upper division required courses.**
- **Computer Competency met by completion of ENC 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 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
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

Degree Requirements

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 (General Education Program) and (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).
- Direct Reading (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
B. Cultural and Historical Foundations (6 hrs)
- Select MGF 1106 Finite Mathematics
- (may substitute a higher level math)
- Prefer STA 1060C Statistics Using Excel
C. Mathematical Foundations (6 hrs)
- Select MGF 1106 Finite Mathematics
D. Social Foundations (6 hrs)
- Select SPC 1600 Fund of Oral Com
E. Science Foundations (6 hrs)
- Select MGF 1106 Finite Mathematics

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: (3 hrs)
  - ENO 3014 - Theory & Tech of Literary Study
  - CRW 3013 - Creative Writing for English Majors
- Choose three of the following: (9 hrs)
  - ENL 2012 - English Literature I
  - ENL 2021 - English Literature II
  - AML 3051 - American Literature I
  - AML 3052 - American Literature II

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
  - ENC 4415 - Digital Rhetorics
  - ENC 4285 - Writing for the Computer Industry
- Optional course
  - ENC 4941 - Tech Writing & Editing Internship

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
- 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, 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, for common program prerequisites to the major.

Core of courses taken in the English Department, and each having a 6000 word requirement. However ENC 1101 & 1102 are prerequisites for all subsequent English courses and will need to be taken for the major.
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

Note: See laboratory component under Section 2.

C. Mathematics (9 hrs)
- MAC 1105 College Algebra
- MGF 1106 Finite Mathematics

One of the following (per GEP)
- STA 106C Basic Statistics using MS Excel
- STA 2014C Principles of Statistics

D. Social Science/History (13 hrs)
- ANH 2010 U.S. History 1492-1777
- ANH 2020 U.S. History 1777-Present
- POS 2041 American National Government
- PSY 2012 General Psychology

E. Science (9 hrs + lab)
- PSC 1121 Physical Science
- Select one:
  - AST 2002 Astronomy
  - GEO 1200 Physical Geography
  - GLY 1030 Geology and its Applications

One of the following (per GEP)
- STA 2014C Principles of Statistics
- STA 206C Basic Statistics

Select one associated science lab:
- Select one:
  - 3 hrs
  - 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)
- CHE 1000 Introduction to Chemistry
- ENG 1200 Introduction to English

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 Literature II
ENL 2021 English Literature II to 1798

4. Education Core Requirements (15 hrs)
- EDG 4323 Professional Teaching Practices
- EDF 4603 Analysis of Critical Issues in Education
- EDF 4214 Classroom Learning Principles
- TSL 4080 Theory and Practice of Teaching ESOL

Students in Schools
- TSL 4141 Issues in Second Language Acquisition

5. Program Core Requirements (13 hrs)
- LAE 4464 Adolescent Lit
- LAE 4360 Literacy Strategies for Mid/High Schools
- LAE 4361 Eng Instructional Analysis
- LAE 4342 Teaching Lang/Comp

6. Internship I (ESE 3940) (3 hrs)
- Prerequisites: EDF 4223, EDF 4214, LAE 4464, and LAE 4361
- Corequisites: LAE 4360 and LAE 4342

See additional requirements under College of Education, Office of Clinical Experiences

7. Internship II (ESE 4943) (12 hrs)
- All methods courses and at least 80% of all specialization courses must be completed before registering for Internship II
- See additional requirements under College of Education, Office of Clinical Experiences
- Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the pre-professional level in accordance with State Board of Education Rule 6A-5.065

Note: Internship II includes a 3 SH module on assessment

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 applicable sections of the Florida Teacher Certification Examination

10. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

11. Total Semester Hours Required 128 hours

ENVIRONMENTAL ENGINEERING (B.S.Env.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
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

UCF Degree Programs
UCF Degree Programs

C. Mathematical Foundations 7 hrs
   1. Take MAC 2321, Calculus for Scientists and Engineers I, (4 hrs).
   2. Take STA 3023 (3 hrs).
   Note: College algebra and trigonometry are prerequisites for Calculus I. See the course descriptions.
   2. Take MAC 2322, Calculus for Scientists and Engineers II, (4 hrs).
   3. Take MAC 2323, Calculus for Scientists and Engineers III, (4 hrs).
   Note: MAC 2311 will substitute above

D. Social Foundations 6 hrs
   1. Take ECO 2013 or ECO 2023.
   3. Take PHY 2048/L, (4 hrs).

E. Science Foundations 7 hrs
   1. Take PHY 2048/L.
   2. Take one from either Earth Science (GLY 1030 or GEO 1200 or GEO 2370) or Biological Science (BSC 1050 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/L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.
   CHM 2045C/4SL Chemistry Fundamentals I 4 hrs
   MAC 2281 Calculus for Scientists & Engineers I GEP
   MAC 2282 Calculus for Scientists & Engineers II (MAC 2312 will substitute above) 4 hrs
   MAC 2283 Calculus for Scientists & Engineers III (MAC 2313 will substitute above) 4 hrs
   MAP 2302 Differential Equations 3 hrs
   PHY 2048/L Physics for Engineers & Scientists I GEP
   PHY 2049/L 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 (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
   Chm 2046/46L Chemistry Fundamentals II w/Lab 4 hrs
   MAC 2311 Calculus with Analytical Geometry I GEP
   MAC 2312 Calculus with Analytical Geometry II GEP
   MAC 2313 Calculus with Analytical Geometry III GEP
   PHY 2048/L Calculus for Scientists & Engineers I GEP
   PHY 2049/L Calculus for Scientists & Engineers 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
   Env 3001 Intro to Environmental Engineering 3 hrs
   STA 3052 Probability & Statistics for Engineers GEP
   CWR 3201 Engineering Fluid Mechanics 3 hrs
   CWR 4011C Hydrology 3 hrs
   CWR 4023C Hydraulics 3 hrs
   EES 4111C Biological Process Control 3 hrs
   EES 4002C Chemical Process Control 3 hrs
   ENV 4120 Air Pollution Control 3 hrs
   ENV 4341 Solid Waste Management 3 hrs
   ENV 4561 Environmental Engineering Process Design 4 hrs
   ENV 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.

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 the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)
   • Approved EnvE Design Course I 3 hrs
   • Approved EnvE Design Course II 3 hrs
   • Earn a minimum graduating GPA of 2.250 in 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 14 hrs1 1 Spring 15 hrs1
*ENC 1101 English Comp I 3 1 *ENC 1102 English Comp I 3
MAC 2281 Calc Sci & Eng I 4 1 MAC 2282 Calc Sci & Eng II 4
*ECO 2013 Macroeconomics or 1 *PHY 2048/L Phys Engr I w/Lab 4
*PHY 2049/L Phys Engr I w/Lab 4 1 EGN 1006C Intro to Engr 1
EGN 3310 Engineering Analysis - Statics 3 1 EGN 1007C Eng Conc & Meth 1
EGN 3321 Engineering Analysis - Dynamics 3 1
EGN 3331 Mechanics of Materials 3 hrs
EGN 3334 Thermodynamics 3 hrs
EGN 3613 Engineering Economic Analysis 2 hrs
EGN 3373 Principles of Electrical Engineering 3 hrs
CCP 3003 Intro to the Construction Industry 3 hrs
ENV 3001 Intro to Environmental Engineering 3 hrs
STA 3052 Probability & Statistics for Engineers GEP
CWR 3201 Engineering Fluid Mechanics 3 hrs
CWR 4011C Hydrology 3 hrs
CWR 4023C Hydraulics 3 hrs
EES 4111C Biological Process Control 3 hrs
EES 4002C Chemical Process Control 3 hrs
ENV 4120 Air Pollution Control 3 hrs
ENV 4341 Solid Waste Management 3 hrs
ENV 4561 Environmental Engineering Process Design 4 hrs
ENV 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.

SECOND YEAR
Fall 16 hrs1 1 Spring 17 hrs1
MAC 2283 Calc Sci & Eng II 4 1 *MAP 2302 Diff Equations 3
*CHM 2045C Chemistry Funds I 4 1 *CHM 2045C Chemistry Funds II 4
*HUM/AMH/EUH I 3 1 *PHY 2048/L Phys Engr II w/Lab 4
EGN 3310 Engr Anal-Statics 3 hrs 1 EGN 3331 Mechanics of Materials 3 hrs
EGN 3311 Thermodynamics 3 hrs 1 EGN 3321 Engr Anal-Dynamics 3 hrs
EGN 3334 Thermodynamics 3 hrs 1
EGN 3613 Eng'ring Econ Anal 2 1
EGN 3373 Principles of Electrical Engineering 3 hrs 1
EGN 3373 Principles of Electrical Engineering 3 hrs 1
EGN 3310 Engineering Analysis - Statics 3 hrs 1
EGN 3321 Engineering Analysis - Dynamics 3 hrs 1
EGN 3331 Mechanics of Materials 3 hrs 1
EGN 3334 Thermodynamics 3 hrs 1
EGN 3613 Engineering Economic Analysis 2 hrs 1
EGN 3373 Principles of Electrical Engineering 3 hrs 1
EGN 3373 Principles of Electrical Engineering 3 hrs 1
CCP 3003 Intro to the Construction Industry 3 hrs 1
ENV 3001 Intro to Environmental Engineering 3 hrs 1
STA 3052 Probability & Statistics for Engineers GEP
CWR 3201 Engineering Fluid Mechanics 3 hrs
CWR 4011C Hydrology 3 hrs
CWR 4023C Hydraulics 3 hrs
EES 4111C Biological Process Control 3 hrs
EES 4002C Chemical Process Control 3 hrs
ENV 4120 Air Pollution Control 3 hrs
ENVR 4341 Solid Wastemng 3 hrs
ENV 4561 Environmental Engineering Process Design 4 hrs
ENV 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.

THIRD YEAR
Fall 15 hrs1 1 Spring 15 hrs1
CWR 3201 Engr Fluid Mech 3 hrs 1 CWR 4011C Hydrology 3 hrs
*ANT/PSY/SYG 3 hrs 1 CWR 4023C Hydraulics 3 hrs
EGN 3331 Mech of Materials 3 hrs 1 EGN 4120 Air Pollution Control 3 hrs
EGN 3373 Engr Fluid Mech 3 hrs 1 EGN 3331 Mech of Materials 3 hrs
STA 3032 Prob/Stats for Eng 3 hrs 1 EGN 3373 Engr Fluid Mech 3 hrs
ENV 4341 Solid/Haz Waste 3 hrs 1 EGN 3331 Mech of Materials 3 hrs

UNIVERSITY OF CENTRAL FLORIDA 2003-2004 Undergraduate Catalog
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: wwienke@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 Extraordinary 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 1600 Fundamentals of Oral Communication 3 hrs
B. Cultural-Historical Foundations* (9 hrs)
   AMH 2010 U.S. History 1492-1877 3 hrs
   ANTH 2511 The Human Species 3 hrs
   PHI 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 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
   POS 2041 American National Government 3 hrs
   PSY 2012 General Psychology 3 hrs
   Select one associated science lab:
   BSC 1005L Biological Principles Laboratory or
   GEO 1200L Physical Geography Laboratory or
   PSC 1121L Physical Science Laboratory 1 hr
E. Science (9 hrs + lab)
   PSC 1121 Physical Science 3 hrs
   One of the following (per GEP) GEP
   ANT 2002 Astronomy or
   GEO 1200 Physical Geography or
   GLY 1030 Geology and its Applications 3 hrs

2. Common Program Prerequisites (25 hrs)

A. Communications (9 hrs)
   ENC 1101 Composition I 3 hrs
   ENC 1102 Composition II 3 hrs
   SPC 1600 Fundamentals of Oral Communication 3 hrs
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 2010 Enjoyment of Music or
   THE 2000 Theatre Survey or
   FIL 1001 Cinema Survey 3 hrs
C. Mathematics (9 hrs)
   MAC 1105 College Algebra 3 hrs
   MGF 1106 Finite Mathematics 3 hrs
   One of the following (per GEP) GEP
   STA 1060C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics (12 hrs)
   AMH 2010 U.S. History 1492-1877 3 hrs
   AMH 2020 U.S. History 1877-Present 3 hrs
   POS 2041 American National Government 3 hrs
   PSY 2012 General Psychology 3 hrs
   Select one associated science lab:
   BSC 1005L Biological Principles Laboratory or
   GEO 1200L Physical Geography Laboratory or
   PSC 1121L Physical Science Laboratory 1 hr
E. Science (9 hrs + lab)
   PSC 1121 Physical Science 3 hrs
   One of the following (per GEP) GEP
   ANT 2002 Astronomy or
   GEO 1200 Physical Geography or
   GLY 1030 Geology and its Applications 3 hrs

3. Exceptional Education Preprofessional Requirements (7 hrs)

- EEX 2010 Orientation to Special Education 3 hrs
- MAF 2801 Elementary School Mathematics 4 hrs

4. Education Core Requirements: (9 hrs)

- EDG 4323 Professional Teaching Practices 3 hrs
- EDF 4063 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.

- EDF 2005 Introduction to Education 3 hrs
- EDG 2700 Teaching Diverse Populations 3 hrs
- EME 2040 Technology for Educators 3 hrs

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 4080 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 4753 Parent Professional Collaboration 3 hrs
- EEX 3243 Techniques for Ex Adolescents and Adults 3 hrs
- EEX 3241 Methods of Academic Skills Ex Ed 3 hrs
- EEX 4753 Parent Professional Collaboration 3 hrs

6. Specialization (5 hrs)

- EEX 4054 Applications and Theories for Students with Special Needs 2 hrs
- EEX 4069 Curriculum and Instructional Strategies and
- EEX 4066 Curriculum and Instructional Strategies and
- EEX 4045 Applications and Theories for Students with Special Needs 3 hrs
- EEX 4066 Curriculum and Instructional Strategies and
- EEX 4066 Curriculum and Instructional Strategies and

Internship Requirements

- EEX 3864 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.)
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.
- Attain 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)
   - Communication Foundations 9 hrs
   - Cultural and Historical Foundations
   - Select one 2 semester sequence
     - Select FIL 2400 History of Motion Pictures or
     - Select FIL 1001 Cinema Survey
   - Mathematics Foundations
     - Select MGF 1106 Finite Mathematics (may substitute a higher level math)
     - Prefer CGS 1060C Intro to Computer Sci or
     - STA 1060C Statistics Using Excel
   - Social Foundations 6 hrs
   - Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)
   - FIL 2400* History of the Motion Pictures GEP
   - FIL 1001 Cinema Survey
   - FIL 1007 Foundations of Story
   - *See transfer notes for possible substitutions

3. Lower Level Core Requirements (18 hrs)
   - FIL 2107* Script Analysis 3 hrs
   - FIL 1008* Cinematic Expression/Aesthetic 3 hrs
   - FIL 2274C Editing I 3 hrs
   - FIL 2220 Directing I 3 hrs
   - FIL 2200 Cinematography I 3 hrs
   - FIL 2930 Film Acting 3 hrs

4. Upper Level Core Requirements (45 hrs)
   - FIL 3922 Film Colloquium 6 hrs
     - six semesters of Colloquium required @ 1 hr each
   - FIL 3201C Intro to Film Production 3 hrs
   - FIL 3401 Film History I 3 hrs
   - FIL 3402 Film History II 3 hrs
   - FIL 3XXX Production Sound 3 hrs
   - FIL 4208 Directing II 3 hrs
   - FIL 3503C Film Theory and Criticism I 3 hrs
   - FIL 3124 Short Script I 3 hrs
   - FIL 4604 The Film Producer 3 hrs
   - FIL 4203C Capstone I 3 hrs
   - FIL 4211C Capstone II 3 hrs
   - FIL 3625 Interactive Entertainment 3 hrs
   - Select one course: 3 hrs
     - 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 3 hrs
       - FIL 4210C Cinematography II 3 hrs
       - FIL 4212 Sound Design I 3 hrs
       - FIL 4XXX Sound Design II 3 hrs
       - FIL 4807 Film Production Management 3 hrs
       - FIL 4213C Editing II 3 hrs
       - FIL 3300C Film Documentary 3 hrs
       - FIL 4228 Directing III 3 hrs
     - Screen Writing
       - FIL 4403 Adaptation 3 hrs
       - FIL 4112C Feature/TV Writing II 3 hrs
       - FIL 4113C Interactive Writing I 3 hrs
       - FIL 4144C Interactive Writing II 3 hrs
       - FIL 4504C Genre Writing 3 hrs
     - Cinema Studies
       - FIL 3520 Italian Film 3 hrs
       - FIL 3521 French Film 3 hrs
       - FIL 3522 German Film 3 hrs
       - FIL 3XXX American Cinema 3 hrs
       - FIL 3412 Black Cinema 3 hrs
       - FIL 3309 Women in Film 3 hrs
       - FIL 3507 Film Theory and Criticism II 3 hrs
       - FIL 3XXX Black Images in Film 3 hrs
     - Digital Cinema
       - ART 2820 Art as Interface 3 hrs
       - ART 3618C Post Production Design 3 hrs
       - FIL 3624* Converging Media 3 hrs
       - IDS 3XXX Digital Imagery 3 hrs
       - IDS 3701C Internet Software Design 3 hrs
       - IDS 4881 Modeling For Realtime Graphics 3 hrs
       - MUC 3311 MIDI Sequencing I 3 hrs
       - COP 3502C Computer Science I 3 hrs
       - ENC 4415 Digital Rhetoric & Modern Dialectic 3 hrs

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 (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 course hours 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
   9 hrs
B. Cultural and Historical Foundations
   9 hrs
C. Mathematical Foundations
   Select MGF 1106 Finite Mathematics (may substitute a higher level math)
   3 hrs
   Prefer CGS 1060C Intro to Computer Sci or STA 1060C Statistics Using Excel
   3 hrs
D. Social Foundations
   6 hrs
E. Science Foundations
   6 hrs

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 2107 Script Analysis
   3 hrs
FIL 2201 Foundations of Production
   3 hrs
FIL 3124 Short Script or FIL 3102
   3 hrs
FIL 3006 Art of the Cinema
   3 hrs
FIL 3252C Cinematic Expression/Aesthetics
   3 hrs
FIL 3300C Film Documentary
   3 hrs
FIL 3503C Film Theory and Criticism I
   3 hrs
FIL 3504C Film Theory and Criticism II
   3 hrs
FIL 3401 Film History I
   3 hrs
FIL 3402 Film History II
   3 hrs
FIL 3XXX American Cinema
   3 hrs
FIL 3531C World Cinema Traditions
   3 hrs
FIL 3XXX Cinema Director
   3 hrs
FIL 4XXX Genre Aesthetics
   3 hrs
FIL 4XXX Cinema Criticism (writing)
   3 hrs
FIL 4604 The Film Producer
   3 hrs

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 3412 Black Cinema
FIL 3309 Women in Film
FIL 4906 Independent Study
FIL 3930 Blacks in Film
FIL 3410 History of Animated Films
FIL 3XXX International Cinema
FIL 3625 Interactive Entertainment
FIL 3624 Converging Media
FIL 5609 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: Meet 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 course hours 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.

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 3 hrs
   (May substitute a higher level math)
   Prefer CGS 1060C Intro to Computer Sci 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 GEP
   FIL 2107 Script Analysis 3 hrs

3. Lower level Core Requirements (18 hrs)
   FIL 1007 Foundations of Story 3 hrs
   FIL 1008 Cinematic Expression/Aesthetic 3 hrs
   FIL 2107 Script Analysis CPP
   FIL 2201 Foundations of Film Production 3 hrs
   FIL 2XXX Documentary Vision 3 hrs
   FIL 2XXX Pre-production & Project Development 3 hrs
   FIL 2XXX Documentary Production 3 hrs

4. Upper Level Core Requirements (39 hrs)
   FIL 3510 World Cinema Traditions 3 hrs
   FIL 3922 Film Colloquium 6 hrs
   (Six semesters of colloquium required @ 1 hr each)
   FIL XXX 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 4604 The Film Producer 3 hrs
   FIL 4XXX Documentary 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

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 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: 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 3 hrs
   D. Social Foundations 3 hrs
   E. Science Foundations 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 2023 Microeconomics
   ECO 3401 Quantitative Business Tools I
   CGS 2100C Computer Fundamentals for Business
   *At UCF, students who have completed MAC 2233 and STA 2233 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. Admission to Finance Major
   - Students who have completed the General Education Program or an AA degree from a Florida Public Community College
   - Completion of the Gordon Rule
   - Completion of the CLAST and nine hours of Summer credit (if applicable)

4. Graduation Requirements
   - A 2.0 UCF GPA
   - Completion of 48 semester hours of upper division credit
   - Completion of 45 hours of upper division credit (if applicable)
   - Completion of the Gordon Rule
   - Completion of the CLAST and nine hours of Summer credit (if applicable)

5. Distinction in Finance
   - Completion of Finance major requirements
   - Completion of the Gordon Rule
   - Completion of the CLAST and nine hours of Summer credit (if applicable)
   - Completion of 48 semester hours of upper division credit
   - Completion of 45 hours of upper division credit (if applicable)
   - Completion of the Gordon Rule
   - Completion of the CLAST and nine hours of Summer credit (if applicable)

6. Minor in Finance
   - Completion of Finance major requirements
   - Completion of the Gordon Rule
   - Completion of the CLAST and nine hours of Summer credit (if applicable)
   - Completion of 48 semester hours of upper division credit
   - Completion of 45 hours of upper division credit (if applicable)
   - Completion of the Gordon Rule
   - Completion of the CLAST and nine hours of Summer credit (if applicable)

7. American Business Honor Society
   - Completion of Finance major requirements
   - Completion of the Gordon Rule
   - Completion of the CLAST and nine hours of Summer credit (if applicable)
   - Completion of 48 semester hours of upper division credit
   - Completion of 45 hours of upper division credit (if applicable)
   - Completion of the Gordon Rule
   - Completion of the CLAST and nine hours of Summer credit (if applicable)

8. Business Honors
   - Completion of Finance major requirements
   - Completion of the Gordon Rule
   - Completion of the CLAST and nine hours of Summer credit (if applicable)
   - Completion of 48 semester hours of upper division credit
   - Completion of 45 hours of upper division credit (if applicable)
   - Completion of the Gordon Rule
   - Completion of the CLAST and nine hours of Summer credit (if applicable)
3. Required for All Business Majors (30 hrs)

Common Body of Knowledge

First Semester in the College of Business Administration:
GEB 3303 - Cornerstone 6 hrs
GEB 3356 - Introduction to Internation 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.
- 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 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 3 hrs
FIN 3414 - Intermediate Corporate Finance 3 hrs
FIN 3504 - Real Estate Finance 3 hrs
FIN 4453 - Portfolio Analysis and Management 3 hrs

Select two of the following:
- FIN 4313 - Management of Financial Institutions 3 hrs
- FIN 4324 - Commercial Bank Management 3 hrs
- FIN 4514 - Portfolio Analysis and Management 3 hrs
- FIN 4521C - Applied Portfolio Management I 3 hrs
- FIN 4604 - International Financial Management 3 hrs
- FIN 4730 - Senior Financial Consulting I 3 hrs
- ECP 4703 - Managerial Economics 3 hrs
- ECO 4412 - Economic Statistics & Econometrics 3 hrs
- ECP 4403 - Bus. Gov't, & Industrial Orgs 3 hrs
- ECP 4600 - Urban & Regional Economic Problems 3 hrs
- ECP 4703 - Managerial Economics 3 hrs
- RMI 3011 - Principles of Risk and Insurance 3 hrs
- FIN 4453 - Speculative Financial Markets 3 hrs
- FIN 4601 - Federal Income Tax I 3 hrs

6. Restricted Electives

Select three of the following:
- ACG 3131 - Financial Accounting Concepts 3 hrs
- ACG 3141 - Intermediate Financial Accounting 3 hrs
- ACG 3361 - Intermediate Managerial Accounting 3 hrs
- ACG 4401 - Accounting Information Systems 3 hrs
- ECO 4412 - Economic Statistics & Econometrics 3 hrs
- ECP 4403 - Bus. Gov't, & Industrial Orgs 3 hrs
- ECP 4600 - Urban & Regional Economic Problems 3 hrs
- ECP 4703 - Managerial Economics 3 hrs
- RMI 3011 - Principles of Risk and Insurance 3 hrs
- FIN 4415 - Portfolio Analysis and Management 3 hrs
- FIN 4533 - Speculative Financial Markets 3 hrs
- FIN 4604 - International Financial Management 3 hrs
- FIN 4730 - Senior Financial Consulting I 3 hrs
- FIN 4731 - Senior Financial Consulting II 3 hrs
- FIN 4906 - Independent Study 3 hrs
- FIN 4914 - Internship 3 hrs
- MAR 3391 - Professional Selling 3 hrs
- REE 3043 - Fundamentals of Real Estate 3 hrs
- REE 4203 - Real Estate Investment Analysis 3 hrs
- REE 4103 - Real Estate Appraisal 3 hrs
- REE 4104 - Real Estate Law 3 hrs
- REE 4333 - Real Estate Development 3 hrs
- RMI 3011 - Principles of Risk and Insurance 3 hrs
- TAX 4001 - Federal Income Tax I 3 hrs
*No class may be used more than once

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

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
REE 4303 - 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

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

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
U.S. Degree Programs

Placement in Foreign language courses is based on one year of C. E. Stebbins, 407-823-2472
E-mail: foreignlanguage@ucf.edu
http://pegasus.cc.ucf.edu/~forlang
C. E. Stebbins, 407-823-2472

F. O. Year Plan of Study - Finance
Freshman
Fall 15 hrs
ENC 1101* 3
Culc-Hist I* 3
SPC 1600 3
***Electic 3
***Elective 3
CGS 2100C* 3
Must complete nine hours in a summer semester
Spring 15 hrs
ENC 1102* 3
Culc-Hist II* 3
Art/Music/Lit 3
**Elective 3
MAC 1105* 3
Must complete nine hours in a summer semester
Sophomore
Fall 15 hrs
ECO 2023* 3
ACG 2021* 3
Science 3
Psy/Soc/Art 3
***Elective 3
ECO 3401* 3
Senior
Fall 15 hrs
**ELEC 3031 6
FIN 3303 3
FIN 3403 3
***Pass Computer Competency Exam in same term Cornerstone completed
Spring 15 hrs
***Elecitve 3
SPC 1600 3
***Elecitve 3
**BUL 3130 3
* A native or near-native speaker must substitute an alternate upper division language course in consultation with a departmental advisor.

Language credit by exam will not be given in courses lower in level than those in which study by Examination in literature courses only.

Four Year Plan of Study - Finance
Freshman
Fall 15 hrs
ENC 1101* 3
Culc-Hist I* 3
SPC 1600 3
***Electic 3
***Elective 3
CGS 2100C* 3
Must complete nine hours in a summer semester
Spring 15 hrs
ENC 1102* 3
Culc-Hist II* 3
Art/Music/Lit 3
**Elective 3
MAC 1105* 3
Must complete nine hours in a summer semester
Sophomore
Fall 15 hrs
ECO 2023* 3
ACG 2021* 3
Science 3
Psy/Soc/Art 3
***Elective 3
ECO 3401* 3
Senior
Fall 15 hrs
**ELEC 3031 6
FIN 3303 3
FIN 3403 3
***Pass Computer Competency Exam in same term Cornerstone completed
Spring 15 hrs
***Elecitve 3
SPC 1600 3
***Elecitve 3
**BUL 3130 3
* A native or near-native speaker must substitute an alternate upper division language course in consultation with a departmental advisor.

Language credit by exam will not be given in courses lower in level than those in which study by Examination in literature courses only.

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

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.

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 study by Examination in literature courses only.

Students must see their departmental advisor for counseling and schedule approval before registering.

Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
   Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
   Prefer CGS 1060C Intro to Computer Science 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites (0-12 hrs)
   Completion of Intermediate level of proficiency.

3. Core requirements-first language (French, German or Spanish) (24 hrs)
   Composition (select one) 3 hrs
   SPN 3420* Spanish Composition
   FRE 3420* French Composition
   FIE 4421* Advanced French Composition
   GER 3420* German Composition
   Oral Communication (select one) 3 hrs
   SPN 3760* Adv Spanish Oral Communication
   FRE 3760* Adv French Oral Communication
   FRE 4421* Adv French Conversation
   GER 3760* Adv German Oral Communication

   At least 9 hours must be at the 3000 level or above.

4. Core requirements-second language (French, German, Spanish, or Italian) (15 hrs)
   Composition (select one) 3 hrs
   SPN 3420 , FRE 3420, GER 3420, ITA 3420
   Advanced Oral Communication (select one) 3 hrs
   SPN 3760, FRE 3760, GER 3760, or ITA 3760
   Restricted Electives in the second language 9 hrs

   Restricted Electives in the first language 9 hrs

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 (0-16 hrs)
   Admission: Met by Graduation requirements.
   Graduation: Met by degree program requirements (four semesters or proficiency).

7. Electives (variable)
   Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.

8. University Minimum Exit Requirements
FOREIGN LANGUAGE EDUCATION- FRENCH (B.S.)

Degree Requirements:

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 1001 Introduction to Philosophy
   C. Mathematical Foundations (6 hrs)
      MGF 1106 Finite Mathematics
      Select one:
      STA 1060C Basic Statistics using MS Excel or
      STA 2040C Principles of Statistics
   D. Social Foundations (6 hrs)
      POS 2041 American National Government
      PSY 2010 General Psychology
   E. Science Foundations (6 hrs)
      PSC 1121 Physical Science
      Select one:
      ANT 2511 The Human Species or
      BSC 1005L Biological Principles Laboratory
   Note: See laboratory component under Section 2.

2. Common Program Prerequisites (31 hrs)
   A. Communication (9 hrs)
      ENC 1101 Composition I
      ENC 1102 Composition II
      SPC 1600 Fundamentals of Oral Communication
   B. Humanities (6 hrs)
      PHI 1010 Introduction to Philosophy
      Select one:
      ARH 2051 The History of Art II or
      MUL 2010 Enjoyment of Music or
      THE 2000 Theatre Survey or
   C. Mathematics (3 hrs)
      MAC 1105 College Algebra
      MAC 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/Humanities (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 1005L Biological Principles Laboratory
      Select one associated science lab:
      BSC 1005L Biological Principles Laboratory or
      GEO 1200 Physical Geography Laboratory or
      PSC 1121L Physical Science Laboratory

3. Education Core Requirements (15 hrs)
   A. Education Core (15 hrs)
      EDF 4214 Classroom Learning Principles
      EDG 4323 Professional Teaching Practices
      EDF 4603 Analysis of Critical Issues in Education
      TSL 4080 Theory and Practice of Teaching ESOL
      Students in Schools
      RED 4043 Content Reading K-12

4. Internship I (ESE 3940) (3 hrs)
   A. Internship I (3 hrs)
      ESE 3940 Internship I

5. Specialization Requirements (18 hrs)
   A. Specialization Requirements (18 hrs)
      FLE 3433 For Lang Tch in the Elementary School
      FLE 4314 For Lang Tch in the Elementary School
      FRE 3760 Advanced French Oral Communication
      FRE 3300 French Grammar

6. Upper Division Restricted Electives (6 hrs)
   A. Upper Division Restricted Electives (6 hrs)
      Select two upper division (3000 or 4000 level) courses in French

7. Other Cognate Requirements (3 hrs)
   A. Other Cognate Requirements (3 hrs)
      LIN 3010 Principles of Linguistics or
      LIN 4843 Cross-Cultural Communication

8. Internship II (ESE 4943) (12 hrs)
   A. Internship II (12 hrs)
      ESE 4943 Internship II

\[ \sum \text{Total Semester Hours Required} \geq 120 \text{ hrs} \]

Related Programs: French, Spanish

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 by the department chair for equivalency credit. The student must provide all supporting information.

Note:

- E-mail: kverkler@mail.ucf.edu
- http://www.edcollege.ucf.edu/
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 lan-
guage 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 port-
folio 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 resi-
dency 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

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

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 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)
AMH 2010 U.S. History 1492-1877
AMH 2020 U.S. History 1877-Present
PHI 2100 Introduction to Philosophy

C. Mathematical Foundations (6 hrs)
MGF 1106 Finite Mathematics
Select one:
STA 1060C Basic Statistics using MS Excel
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

E. Science (9 hrs)
Select one:
MAC 1115 College Algebra
MGF 1106 Finite Mathematics
One of the following (per GEP)
STA 1060C Basic Statistics using MS Excel
STA 2014C Principles of Statistics

D. Social Science/History (12 hrs)
AMH 2010 U.S. History 1492-1877
AMH 2020 U.S. History 1877-Present
POS 2041 American National Government

F. Education Courses (9 hrs)
EDF 4214 Classroom Learning Principles
EME 2040 Technology for Educators

G. Diversity Courses (9 hrs)
Select one of the following: 3 hrs
AFL 2010 Introduction to African American Studies
URB 2050 Introduction to Urban Studies

H. Other Program Prerequisites (12 hrs)
A total of 12 hours of courses in elementary and intermediate grammar, com-
position, and advanced conversation, and culture and civilization in Spanish.

3. Education Core Requirements (15 hrs)

EDG 4323 Professional Teaching Practices
EDF 4620 Analysis of Critical Issues in Education
EDF 4621 Classroom Learning Principles
TSL 4080 Theory and Practice of Teaching ESL
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
the Internship I

5. Specialization Requirements (18 hrs)

FLE 4333 For Lang Tch in the Elementary School
FLE 4334 For Lang Tch in the Secondary School
SPN 4200 tional Spanish Composition
SPN 4320 Spanish Composition
SPW 3100 Survey of Spanish Literature I
SPW 3101 Survey of Spanish Literature II
SPW 3130 Survey of Latin American Lit I
SPW 3131 Survey of Latin American Lit II

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:
LIN 3010 Principles of Linguistics
LIN 4643 Cross-Cultural Communication
FOL 3730 Romance Philology

Note: Internship II includes a 3 SH module on assessment

Note: Please see the Undergraduate Catalog for additional requirements.

University of Central Florida
2003-2004 Undergraduate Catalog

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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.

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>1. UCF General Education Program (38 hrs)</strong></td>
<td></td>
</tr>
<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 2253 Applied Calculus I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select STA 2023 Statistical Methods I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>4 hrs</td>
</tr>
<tr>
<td>Select PHY 2053C College Physics (PR: MAC 1105 and MAC 1114)</td>
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</tr>
<tr>
<td>Select BSC 210C General Biology</td>
<td>4 hrs</td>
</tr>
<tr>
<td><strong>2. Common Program Prerequisites (15 hrs)</strong></td>
<td></td>
</tr>
<tr>
<td>BSC 2100C General Biology</td>
<td>GEP</td>
</tr>
<tr>
<td>CHM 2045C Chem Fund I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHM 2046 &amp; L Chem Fund II with lab</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MAC 2253* Applied Calculus I</td>
<td>GEP</td>
</tr>
<tr>
<td>MAC 2254* Applied Calculus II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHY 2053C College Physics</td>
<td>GEP</td>
</tr>
<tr>
<td>PHY 2054C College Physics</td>
<td>4 hrs</td>
</tr>
<tr>
<td>*See Transfer Notes for possible substitutes</td>
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</tr>
<tr>
<td><strong>3. Core Science and Math Requirements (24 hrs)</strong></td>
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</tr>
<tr>
<td>BSC 2010C General Biology</td>
<td>GEP</td>
</tr>
<tr>
<td>CHM 2211 Organic Chem.</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHM 2211 &amp; L Organic Chem II with lab</td>
<td>5 hrs</td>
</tr>
<tr>
<td>CHM 3120C Analytical Chemistry</td>
<td>5 hrs</td>
</tr>
<tr>
<td>STA 1060C Statistics with Excel</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 2003 Statistical Methods I</td>
<td>GEP</td>
</tr>
<tr>
<td>PCB 3063 &amp; L Genetics</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PCB 3223 &amp; L Immunology</td>
<td>4 hrs</td>
</tr>
<tr>
<td><strong>4. Forensic Science Core (19 hrs)</strong></td>
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</tr>
<tr>
<td>CHS 3501 Intro to Forensic Science</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHS 3505C Forensic Microscopy</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHS 4537 Forensic Lab Quality Assurance</td>
<td>2 hrs</td>
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<tr>
<td>CHS 3595 Foren So in the Courtroom</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHS 3533C Forensic Biochemistry I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHS 4591 Forensic Science Internship</td>
<td>4 hrs</td>
</tr>
<tr>
<td><strong>5. Forensic Analysis Track (28 hrs)</strong></td>
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<tr>
<td>Required Courses (16 hrs)</td>
<td></td>
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<tr>
<td>CHM 3410 Physical Chemistry I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHM 4130C Advanced Analytical Chemistry</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHS 3550C Foren Anal of Controlled Subs</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CHS 3511C Trace Evidence</td>
<td>4 hrs</td>
</tr>
<tr>
<td>Select 6-12 hours from the following:</td>
<td></td>
</tr>
<tr>
<td>CHS 4560C Forensic Investigating Techniques</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHS 4515C Forensic Crime Scene Investigation</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ANT 4521C Forensic Anthropology</td>
<td>5 hrs</td>
</tr>
<tr>
<td>BCH 4053 Biochemistry I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHM 3212L Organic Lab Techniques II</td>
<td>2 hrs</td>
</tr>
<tr>
<td><strong>6. Departmental Exit Requirements</strong></td>
<td></td>
</tr>
<tr>
<td>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.</td>
<td></td>
</tr>
<tr>
<td>Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 2 and 3 of the departmental degree requirements.</td>
<td></td>
</tr>
<tr>
<td>Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 4 and 5 of the departmental degree requirements.</td>
<td></td>
</tr>
<tr>
<td>Computer Competency met by STA 1060C, a Computer Science course, or by departmental assessment.</td>
<td></td>
</tr>
<tr>
<td>American Board of Criminalists (ABC) exit exam must be taken prior to graduation.</td>
<td></td>
</tr>
<tr>
<td>The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF.</td>
<td></td>
</tr>
<tr>
<td><strong>7. Foreign Language Requirements (0-8 hrs)</strong></td>
<td></td>
</tr>
<tr>
<td>Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.</td>
<td></td>
</tr>
<tr>
<td>Graduation: none</td>
<td></td>
</tr>
</tbody>
</table>

UCF Degree Programs
E-mail: chemistry@ucf.edu
http://www.cas.ucf.edu/chemistry/forensic.html
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
   - Communication Foundations 9 hrs

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

C. Mathematical Foundations
   - Select MAC 2233 Applied Calculus I 3 hrs

D. Social Foundations
   - Social Foundations 3 hrs

E. Science Foundations
   - Science Foundations 3 hrs

2. Common Program Prerequisites (15 hrs)
   - BSC 2010C General Biology 4 hrs
   - CHM 2045C* Chemistry Fundamentals I 4 hrs
   - CHM 2046 & L Chemistry Fundamentals II 4 hrs
   - MAC 2233* Applied Calculus I 4 hrs
   - MAC 2234* Applied Calculus II 3 hrs
   - PHY 2053C* College Physics I 4 hrs
   - PHY 2054C* College Physics II 4 hrs

3. Core Science and Mathematics Requirements (24 hrs)
   - BSC 2010C General Biology 4 hrs
   - CHM 2210 Organic Chemistry I 3 hrs
   - CHM 2211 & L Organic Chemistry II 5 hrs
   - CHM 3200C Analytical Chemistry 5 hrs
   - STA 1060C Statistics with Excel 3 hrs
   - STA 2023 Statistical Methods I 3 hrs
   - PCB 3063 & L Genetics 4 hrs
   - PCB 3233 & L Immunology 4 hrs

4. Forensic Science Core (19 hrs)
   - CHS 3501 Intro to Forensic Science 3 hrs
   - CHS 3505C Forensic Microscopy 4 hrs
   - CHS 4537 Forensic Lab Quality Assurance 2 hrs
   - CHS 3595 Forens Sci in the Courtroom 3 hrs
   - CHS 3533C Forensic Biochemistry I 3 hrs
   - CHS 4591 Forensic Science Internship 4 hrs

5. Forensic Biochemistry Track (28 hrs)
   - MCB 3020C General Microbiology 5 hrs
   - BCH 4063 Biochemistry I 3 hrs
   - BCH 4054 Biochemistry II 3 hrs
   - BCH 4103L Biochemical Methods Lab 2 hrs
   - PCB 3523 Molecular Biology I 3 hrs
   - PCB 4524 Molecular Biology II 3 hrs
   - BSC 3404C Quantitative Biological Methods 3 hrs
   - CHS 4354C Forensic Biochemistry II 3 hrs
   - CHS 4352 Interpretation of DNA Evidence 3 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 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
   - 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: Chemistry, Forensic Science Analysis Track, Molecular Biology and Microbiology

Related Minors: Chemistry, Molecular Biology 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

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 4202, FRE 4200, 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
- 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 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
   - B. Cultural and Historical Foundations
   - C. Mathematical Foundations
   - D. Social Foundations
   - E. Science Foundations

2. Common Program Prerequisites (0-14 hrs)
   - FRE 1120* Elem French Lang & Civ I 4 hrs
   - FRE 1121* Elem 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 French speaker must substitute alternate upper division French courses in consultation with a departmental advisor.

4. Upper Division Restricted Electives (15 hrs)
   - French literature beyond the survey level
     - (taught in French)
     - 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.
   - 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 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 by the department chair 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
   - B. Cultural and Historical Foundations
   - 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 3 hrs
Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
E. Science Foundation 6 hrs

2. Common Program Prerequisites
Must be completed with a "C" (2.0) or better.
ACG 2021 Principles of Financial Accounting 3 hrs
ACG 2071 Principles of Managerial Accounting 3 hrs
ECO 2013 Macroeconomics 3 hrs
ECO 2023 Microeconomics 3 hrs
*ECO 3401 Quantitative Business Tools I 3 hrs
CGS 2100C Computer Fundamentals for Business 3 hrs
* At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO3401.

3. Required for All Business Majors (30 hrs)
First 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:
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 Info Sys 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 3 hrs
   ACG 3361 Intermediate Managerial Accounting 3 hrs
   TAX 4001 Federal Income Tax I 3 hrs

   Economics
   ECO 3223 Money and Banking 3 hrs
   ECP 3203 Contemporary Labor Economics 3 hrs
   ECP 4703 Managerial Economics 3 hrs

   Finance
   FIN 3303 Financial Markets 3 hrs
   FIN 3414 Intermediate Corporate Finance 3 hrs
   FIN 3504 Investment Analysis 3 hrs

   Management
   MAN 3301 Management of Human Resources 3 hrs
   MAN 4240 Organizations: Theory and Behavior 3 hrs

   Marketing
   MAR 3613 Marketing Research & Analysis 3 hrs
   MAR 3403 Sales Force Management 3 hrs
   MAR 4841 Service Marketing 3 hrs
   MAR 4156 International Marketing 3 hrs

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 3 hrs
ECO 4701 The Global Economy 3 hrs
FIN 4604 International Financial Management 3 hrs
MAN 4600 International Management 3 hrs
MAR 4156 International Marketing 3 hrs
Elecitives 9-18 hrs**
GEB 4363 Export and Import Management 3 hrs
EGB 4358 International Negotiations and Transactions 3 hrs
INR 4035 International Political Economy*** 3 hrs
ANT 3212 Peoples of the World*** 3 hrs
Any Foreign Language 3000/4000 level*** 3 hrs
Any course from international electives in Economics 3 hrs
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 may 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 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)

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
HPA2 210, 407-823-2369
Undergraduate Program Director: Thomas Falen
E-mail: tfalen@mail.ucf.edu
Web Address: http://www.cohta.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.
### UCF Degree Programs

**UCF Special Access Programs**

- **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.
- Students 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 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 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** (36 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</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>
<tr>
<td>Select MAC 1105</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select STA 2014C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
<td></td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
<td></td>
</tr>
<tr>
<td>Select BSC 2010C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select CHM 1032</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**2. Common Program Prerequisites** (17 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZOO 3733C</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 2021</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>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**3. Core Requirements** (68 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<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 4193</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>
</tr>
<tr>
<td>HSC 4550</td>
<td>Pathophysiologic Mechanisms</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MAN 3025</td>
<td>Management of Organizations or</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4180</td>
<td>Organization /Management for Health Agencies</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HIM 3006</td>
<td>Foundations of Health Information Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HIM 3116C</td>
<td>Health Record Organization &amp; Management</td>
<td>4 hrs</td>
</tr>
<tr>
<td>HIM 3906L</td>
<td>Professional Practice Exp. I</td>
<td>2 hrs</td>
</tr>
<tr>
<td>HIM 3816L</td>
<td>Professional Practice Exp. II</td>
<td>2 hrs</td>
</tr>
<tr>
<td>HIM 4226C</td>
<td>Coding Procedures I</td>
<td>5 hrs</td>
</tr>
<tr>
<td>HIM 4256C</td>
<td>Coding Procedures II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HIM 4676</td>
<td>Professional Development Issues in Health Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HIM 4344C</td>
<td>Health Information Department</td>
<td></td>
</tr>
</tbody>
</table>

**4. Upper Division Restricted Electives** none

**5. Departmental Exit Requirements** (120 hrs)

- A minimum 2.5 overall GPA is required for graduation.
- Upon completion of the approved program, the student is eligible to submit an application for writing the national registration examination administered by the American Health Information Management Association to qualify as a Registered Health Information Administrator.

**6. Electives** none

**7. Foreign Language Requirements** (0-8 hrs)

- **Admissions**: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
- **Graduation**: none

**8. University Minimum Exit Requirements** (120 hrs)

- **A 2.0 UCF GPA**.
- **60 semester hours** earned after CLEP awarded.
- **48 semester hours** of upper division credit completed.
- **30 of the last 60 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**: 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**

**Fall** 14 hrs  **Spring** 16 hrs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>English</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CHM 1032</td>
<td>Chemistry</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSC 2000</td>
<td>Health Services Administration</td>
<td>2 hrs</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>Marketing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PSY 2012</td>
<td>Psychology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>or ANT 2000</td>
<td>Anthropology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>or ANT 2000</td>
<td>Anthropology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>or ANT 2000</td>
<td>Anthropology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>or ANT 2000</td>
<td>Anthropology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>or ANT 2000</td>
<td>Anthropology</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

*Plan your required nine summer hours into your course of study.

**Sophomore Year**

**Fall** 13 hrs  **Spring** 13 hrs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 2021</td>
<td>Accounting I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>ZOO 3733C</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EUT 2031</td>
<td>English</td>
<td>3 hrs</td>
</tr>
<tr>
<td>or AMH 2020</td>
<td>Anthropology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CGS 2100C</td>
<td>Computer Science for Business</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

*One course: AMH 2020

**Summer** 8 hrs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Foreign Lang I)</td>
<td>English</td>
<td>4 hrs</td>
</tr>
<tr>
<td>(Foreign Lang II)</td>
<td>English</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

*If not satisfied in high school

**Junior Year**

**Fall** 14 hrs  **Spring** 14 hrs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 4193**</td>
<td>Health Services Administration</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HIM 4226C</td>
<td>Health Services Administration</td>
<td>5 hrs</td>
</tr>
</tbody>
</table>
HEALTH SCIENCES - ATHLETIC TRAINING TRACK (B.S.)

College of Health and Public Affairs
HPA2 210, 407-823-3463
http://www.cohpa.ucf.edu/health.pro/athletic
E-mail: dcassidy@mail.ucf.edu

Undergraduate Program Director: David Cassidy

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)

A. Communication Foundations
   - 9 hrs
B. Cultural Historical Foundations
   - 9 hrs
C. Mathematical Foundations
   - 6 hrs
D. Select MAC 1105
   - 6 hrs
E. Select STA 2023
   - 6 hrs
F. Select Social Foundations
   - 6 hrs
G. Select POS 2041
   - 6 hrs
H. Select PSY 2012
   - 4 hrs
I. Science Foundations
   - 6 hrs
J. BSC 2010C
   - 3 hrs
K. CHM 2045C
   - 4 hrs

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.

- BSC 2010C General Biology I and Lab
- ZOO 3733C Human Anatomy
- PCB 3703C Human Physiology
- CHM 2045C General Chemistry I
- PHY 2053C College Physics I (algebra based)
- PHY 2048L Physics for Scientists I (calculus based)
UCF Degree Programs

Tentative Course Schedule for Entering Freshmen

Freshman Year*  

Fall                15 hrs  
ENC 1101  3  
PSY 2012  3  
PHI 2010  3  
HSC 2000  2  
MAC 1105  3  
CHM 2045C  4  

Spring              14 hrs  
ENC 1102  3  
PSY 2012  3  
HSC 2000  2  
MAC 1114  4  

*Plan your required nine summer hours into your course of study

Sophomore Year

Fall              14 hrs  
PHY 2053C  4  
ZOO 3703C  4  
STA 2023  3  
EUH 2000 or HUM 2111  3  

Spring            13 hrs  
MUL 2010 or REL 2300  3  
THE 2000 or PHI 2010  4  
SPC 1600  3  
EUH 2001 or HUM 2238  3  

Summer            11 hrs  
PET 4603  3  
PET 4620C  4  
PET 4351  3  
HUN 2002  3  

Junior Year

Fall              13 hrs  
PET 3620C  2  
PET 3620C  1  
PET 3670C  4  
PET 4351  3  
PET 4603  3  

Spring            13 hrs  
PET 3620C  2  
PET 3620C  1  
PET 3670C  4  
PET 4351  3  
PET 4603  3  

Senior Year

Fall              11 hrs  
PET 4624C  2  
PET 4624C  1  
PET 4632C  3  
PET 4672C  4  

Spring            13 hrs  
HSA 4700  3  
EPA 4700  3  

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
   Select MUL 2010 Enjoyment of Music or REL 2300
   World Religions or THE 2000 Theater Survey or
   PHI 2010 Intro to Philosophy
   C. Mathematical Foundations 6 hrs
   Select MAC 1105 College Algebra
   Select STA 2014C Principles of Statistics or
   STA 2023 Statistical Methods I
   D. Social Foundations 6 hrs

   159
2. Common Program Prerequisites (0 hrs)
MAC 1105 College Algebra
STA 2014C Principles of Statistics or STA 2023 Statistical Method I
BSC 2010C General Biology

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 3 hrs
CHM 1032 General Chemistry 3 hrs
HSC 2000 Intro to the Allied Health Professions 2 hrs
MAC 1114 College Trigonometry 3 hrs

Core Requirements - Upper Division (48 hrs)
HIM 3006 Foundations of Health Info Mgmtnt 3 hrs
HSA 3122 US Healthcare Systems 3 hrs
HSA 4199 Managed Care 3 hrs
HSA 4120 Community Health Services 3 hrs
HSA 4180 Org & Mgmt of Health Agencies or PET 4660C Org & Admin of Athletic Training 3 hrs
HSA 4193 Health Care Automation 3 hrs
HSA 3110 Long Term Care Administration 3 hrs
HSA 4070 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 4500 Epidemiology 3 hrs
HSC 4564 Healthcare Needs of the Elderly or PHT 3259 Patient Care Skills 3 hrs
HSC 4653 HealthCare Ethics 3 hrs
HUN 3011 Human Nutrition or HSC 3593C HIV Disease or HSC 4008 Professional Development of the Health Professions 3 hrs

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 departmental 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 proficiency 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 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:
The participating student may also consider applying for consideration to one or more of the following undergraduate professional degree options: Health Information Management, Athletic Training, Cardiopulmonary Sciences, Radiologic Sciences, Health Services Administration, 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
ENG 1104 or 1105 3 ENG 1106 3
STA 2014C or 2023 3 POS 2041 3
CHM 1022 3 BSC 2010C 4
MAC 1105 3 MAC 2203 3
HSC 2000 2 ECO 2023 3

Sophomore Year
Fall 15/17 hrs Spring 14/16 hrs
PHY 2053C 4 MUL 2010 or REL 2300 3
MAC 1114 3 or THE 2000 or PHI 2010 3
SPC 1600 3 STA 2014C or STA 2023 3
HSA 3531 3 or AMH 201 3
HSC 3110C 3 or MUL 2010 3
or AMH 201 3
or PSY 2012 3
lower level courses 2/4 lower level courses 2/4
Foreign Lang I* or other Foreign Lang II* or other

* 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 4109 3
HUM 2211 or REL 2300 3 HUM 2230 3
HSA 3531 3 or PHY 2054 3
HSC 3640 3 or BSC 2010C 4
HUM 2211 or REL 2300 3
HSC 4500 3 or MAC 1114 3
HSA 3122 3 or MAC 1105 3
HSC 3110C 3 or MAC 1105 3
HSA 4180 3 or BSC 2010C 4
HSC 3531 3 or CGS 2100C 3
HSA 4109 3 or STA 2014C 3
HSC 4564 3 or STA 2014C 3
PHT 3259 3 or STA 2023 3
HSC 4653 3 or HSA 4180 3
HUN 3011 3 or HSC 4008 or
HSC 3593C 3 or HSC 4008 or
HSC 4008 3 or HSC 4008 or

Senior Year
Fall 15 hrs Spring 15 hrs
HSA 4700 3 HSC 4243 3
HSC 4564 or PHT 3259 3 HSA 4109 3
HSC 3110C 3 HSC 4653 3
HSA 4193 3 Elective (if needed) 3
HSC 4500 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 Oetjen

Admission Requirements: none

Degree Requirements:
 Students who change degree programs and select this major must adopt the most current catalog.
 Students should complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System.
 Students should consult with a departmental advisor.
 The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours.
 UCF Residency Requirement: 30 hours

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
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 (9 hrs)
## UCF Degree Programs

### College of Arts and Sciences
**History Department, CNH 551,**
[http://pegasus.cc.ucf.edu/~history](http://pegasus.cc.ucf.edu/~history)

**E-mail:** history@ucf.edu

E. Kallina, 407-823-2224

### Admission Requirements
**none**

### Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each history course for it to be counted toward the major.
- Co-op credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF History Department.
- 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.

### HISTORY (B.A.)

#### 3. Core Requirements
(45 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 3122</td>
<td>U.S. Health Care Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 3170</td>
<td>Health Care Finance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 3210</td>
<td>Long Term Care Administration</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 4120</td>
<td>Community Health Services</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4180</td>
<td>Organization and Management for Health Agencies</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4193</td>
<td>Health Care Automation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4502</td>
<td>Risk Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4700</td>
<td>Health Science Research Methods</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>
</tr>
<tr>
<td>HSC 4500</td>
<td>Epidemiology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSC 4564</td>
<td>Health Care Needs of the Elderly</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSC 4653</td>
<td>Health Care Ethics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSC 4900</td>
<td>Quality Management</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

#### 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 4556C 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:**

#### 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

**Related Minors:** Aging Studies, Health Information Management, Health Sciences, Information Systems, and Public Administration.

Courses leading to a Certificate in Aging Studies are appropriate.

### Tentative Course Schedule for Entering Freshmen

#### Freshman Year

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ENC 1101</td>
<td>English 1101</td>
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<tr>
<td></td>
<td>PSY 2012 or SYG 2000</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECO 2013</td>
<td>Intro to Computer Science</td>
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</table>

**Summer**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 3531</td>
<td>Health Care Ethics</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

* Students must earn a "C" (2.0) or better in each Common Program Prerequisite course.

**Sophomore Year**

<table>
<thead>
<tr>
<th>Term</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ACG 2021</td>
<td>Accounting 2021</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>ECO 2023</td>
<td>Economics 2023</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>STA 2023</td>
<td>Statistical Methods</td>
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</table>

**Spring**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 4109</td>
<td>Health Care Finance</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4120</td>
<td>Community Health</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4180</td>
<td>Health Science</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4193</td>
<td>Health Care Automation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4502</td>
<td>Risk Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4700</td>
<td>Health Science</td>
<td>3 hrs</td>
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<td></td>
<td>the Elderly</td>
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<td>HSC 4653</td>
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<td>Quality Management</td>
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**Junior Year**

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<tbody>
<tr>
<td>Fall</td>
<td>HSA 4500</td>
<td>Health Care Finance</td>
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<tr>
<td></td>
<td>HSA 3170</td>
<td>Health Services</td>
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<tr>
<td></td>
<td>HSA 3210</td>
<td>Health Science</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSA 4120</td>
<td>Health Care Internship</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSA 4180</td>
<td>Health Care Automation</td>
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**Senior Year**

<table>
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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>Fall</td>
<td>HSA 3430</td>
<td>Health Care Economics</td>
<td>3</td>
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<tr>
<td></td>
<td>HSA 3430</td>
<td>Health Care Economics</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>HSA 4502</td>
<td>Health Care Internship</td>
<td>3</td>
</tr>
</tbody>
</table>

**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.


UCF Degree Programs

Select MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
Prefer CGS 1060C 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 GEP
AMH 2020* US History: 1877-Present GEP
*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. 18 hrs
1) Asian, African, and Middle Eastern
2) British and European
3) Latin American
4) U.S. and Canadian
Select three hours of approved history courses 3 hrs

5. Departmental Exit Requirements
■ Maintain a minimum GPA of 2.0 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.
■ 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 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: 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 http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam

Degree Requirements

1. UCF General Education Program (36 hrs)
A. Communication Foundations 3 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 3 hrs
Select MAC 1105 College Algebra
Select CGS 2100C Computer Fundamentals for Bus or STA 2033 Statistical Methods I
D. Social Foundations 3 hrs
Select ECO 2013 Macroeconomics or ECO 2223 Microeconomics
Select one: PSY 2012, SYG 2000, ANT 2000
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 (21 hrs)
HFT 3540 Guest Services Management 3 hrs
HFT 2403 Hospitality Financial Accounting 3 hrs
HFT 3431 Hospitality Managerial Accounting 3 hrs
HFT 3000 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 2950 Strategic Management in Hospitality Ind 3 hrs
C. Sectoral Studies (21 hrs)
HFT 2254 Lodging Operations 3 hrs
HST 2212C 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 4755 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 (1 hr)
HST 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 classes or restricted electives at UCF.

5. Restricted Electives:
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 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 4759 Product Development in Theme Parks and Attractions 3 hrs
- HFT 4343 Hospitality Facilities Planning & Design 3 hrs
- HFT 4442 Vacation Ownership Resort Reservations/Attractions Industry 3 hrs
- FSS 3232C Supply and Procurement Management 3 hrs

D. Vacation Ownership Resort Management Track (18 hrs)
- HFT 4268 Case Studies in Multi-Unit Restaurant Management 3 hrs
- HFT 4269 Case Studies in Restaurant Management 3 hrs

E. Theme Park and Attraction Management Track (18 hrs)
- HFT 4786 Managing the Guest Experience in Theme Parks and Attractions 3 hrs
- HFT 4759 Product Development in Theme Parks and Attractions 3 hrs
- HFT 4758 Contemporary Issues in the Theme Park and Attraction Industry 3 hrs
- HFT 4352 Managing the Employee Experience in Theme Parks and Attractions Industry 3 hrs
- HFT 4787 Operational Issues in the Theme Park and Attraction Industry 3 hrs

F. Tourism Management Track (18 hrs)
- HFT 4735 Geography 3 hrs
- HFT 4722 Travel Agency Management 3 hrs
- HFT 4762 Current Practices in the Airline Industry 3 hrs
- HFT 3511 Convention & Conference Sales 3 hrs

G. Lodging Management Track (18 hrs)
- HFT 3313 Hospitality Physical Plant Management 3 hrs
- HFT 4434 Hospitality Facilities Planning & Design 3 hrs
- HFT 4462 Hospitality Industry Finance 3 hrs
- HFT 4442 Vacation Ownership Resort Reservations/Attractions Industry 3 hrs
- HFT 4268 Case Studies in Restaurant Management 3 hrs

H. Hospitality Financial Management and Technology (18 hrs)
- HFT 4442 Vacation Ownership Resort Reservations/Attractions Industry 3 hrs
- HFT 4462 Hospitality Industry Finance 3 hrs
- HFT 4473 Hotel Development Analysis 3 hrs
- HFT 4453 Food, Beverage and Labor Cost Controls 3 hrs
- HFT 4343 Hospitality Facilities Planning & Design 3 hrs

6. Foreign Language Requirements (0-8 hrs)
State University System foreign language admission requirement: two years in high school or one year of college instruction in a single foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

7. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

8. 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
HUMANTIES (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

- 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)
Select HUM 2211 Humanistic Tradition I (3 hrs)
Select HUM 2211 Humanistic Tradition II (3 hrs)
Select PHI 2010 Intro to Philosophy or REL 2300 World Religions (3 hrs)
C. Mathematical Foundations
Select MGF 1106 Finite Mathematics (3 hrs)
(may substitute a higher level math)
Select STA 1060C Statistics Using Excel (3 hrs)
D. Social Foundations (6 hrs)
E. Science Foundations (6 hrs)

2. Common Program Prerequisites

3. Core requirements (24 hrs)

- Note: Special topics courses in philosophy or humanities may be substituted for some core courses with prior approval by the department advisor.
- Humanities Foundations
Select three courses:
HUM 3431 Ancient Humanities
HUM 3435 Medieval Humanities
HUM 3251 Modern Humanities
HUM 3251 Contemporary Humanities (9 hrs)
- Humanistic/Religious Traditions
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 Native American Religions
HUM 3553 Moses, Jesus, & Mohammed
HUM 3551 ANT 3245 Ancient Humanities (9 hrs)

Applications
Select two courses:
PHI 3803 Philosophy and Creativity
PHI 3033 Philosophy, Religion, and the Environment
PHM 3123 Feminist Theories
REL 3162 Healing: Culture, Art, and Praxis
HUM 4544 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 Phil of Embodiment: Mind/Body/Self
REL 3XXX Religion, Spirituality, and Popular Music
REL 3XXX Religion, Philosophy, and Film (6 hrs)

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
- HUM 3700 Philosophy of Religion
- PHM 3123 Feminist Theories
- HUM 4544 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 Phil of Embodiment: Mind/Body/Self
- REL 3XXX Religion, Spirituality, and Popular Music
- REL 3XXX Religion, Philosophy, and Film (6 hrs)

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)
- 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
- 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.
Earn a "C" (2.0) or better in each required course

Computer Competency met by HUM 4970H, HUM 4906, 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 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 Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses
- Students should consult with a departmental advisor.

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)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations
      Select HUM 2211 Humanistic Tradition I 3 hrs
      Select HUM 2230 Humanistic Tradition II 3 hrs
      Select REL 2300 World Religions 3 hrs
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics (May substitute a higher level math) 6 hrs
      Prefer STA 1060C Statistics Using Excel 6 hrs
   D. Social Foundations 6 hrs

2. Common Program Prerequisites
   6 hrs

3. Core requirements
   Foundations in the Study of Religion and the Humanities (24 hrs)
   Select three courses, at least two must be from (a)
   (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
      or 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 Classical 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 4330 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 3232 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: wthomps@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 2282, Calculus for Scientists and Engineers II, (4 hrs.)
2. Take MAC 2283, Calculus for Scientists and Engineers III, (MAC 2312 will substitute see above)
3. Take MAC 2301, Calculus for Scientists and Engineers IV, (MAC 2313 will substitute above)

D. Social Foundations 6 hrs
1. Take ECO 2003 or ECO 2023.

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 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 2282 are also required for UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

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 1111C Engineering Computer Graphics 2 hrs
EGN 1007C Engineering Concepts & Methods 1 hr
EGN 1111C Engineering Computer Graphics 2 hrs
EGN 3210 Engineering Analysis & Computation 3 hrs
EGN 3214 Engineering Analysis - Statics 3 hrs
EGN 3212 Engineering Analysis - Dynamics 3 hrs
EGN 3235 Thermodynamics 3 hrs
EGN 3236 Structure & Properties of Materials 3 hrs
EGN 3237 Principles of Electrical Engineering 3 hrs
EGN 3213 Engineering Economic Analysis 2 hrs
EGN 4264 Engineering Administration 3 hrs
STA 3032 Probability & Statistics for Engineers 3 hrs
EIN 3304 Introduction to IE & MS 2 hrs
EIN 3314C Work Measurement & Design 3 hrs
EIN 3354 Principles of Cost Engineering 3 hrs
EIN 4118C IE Applications of Computers 3 hrs
EIN 4221C Human Engineering 3 hrs
EIN 4233C Industrial Control Systems 3 hrs
EIN 4236C Industrial Planning & Design 3 hrs
EIN 4291C Manufacturing Engineering 3 hrs
EIS 4224 Quality Engineering 3 hrs
EIS 4312 Operations Research 3 hrs
EIS 4523C Systems Simulation 3 hrs
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)

- EIN 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 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: 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**

<table>
<thead>
<tr>
<th>Fall</th>
<th>12 hrs</th>
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<tbody>
<tr>
<td>*CHS 1440 Fund of Chm/Engrs 4</td>
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<tr>
<td>*ENC 1101 English Comp I 3</td>
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<tr>
<td>*MAC 2281 Calc Sci &amp; Eng I 4</td>
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<tr>
<td>EGN 1006 Intro to Eng 1</td>
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<table>
<thead>
<tr>
<th>Summer</th>
<th>9 hrs</th>
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<tbody>
<tr>
<td>EGN 3210 Eng Anal-Comp 3</td>
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<tr>
<td>*SPC 1016 Tech Presentations 3</td>
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<tr>
<td>*ECO 2023 Macroeconomics 3</td>
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<tr>
<th>SECOND YEAR</th>
<th>13 hrs</th>
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<tr>
<td>*PHY 2048L Phys Engr/Sci I 4</td>
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<tr>
<td>EGN 3310 Eng Anal-Statics 3</td>
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</tr>
<tr>
<td>EIN 3304 Intro to IE &amp; Mgt Sys 2</td>
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<td>*MAC 2283 Calc Sci &amp; Eng III 4</td>
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<table>
<thead>
<tr>
<th>Summer</th>
<th>10 hrs</th>
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<tbody>
<tr>
<td>EGN 3385 Strctr &amp; Prop Matls 3</td>
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<tr>
<td>EGN 3613 Engng Econ Anal 2</td>
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<tr>
<td>*Social Foundations 2</td>
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<tr>
<td>*EGN 1111C Cmpt Grphys 2</td>
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**SECOND YEAR**

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<tr>
<td>*ENC 1102 English Comp II 3</td>
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<tr>
<td>*MAC 2282 Calc Sci &amp; Eng II 4</td>
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<tr>
<td>EGN 1007C Eng Conc&amp;Meth 1</td>
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<td>*PHY 2048L Phys Engr/Sci I 4</td>
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<tr>
<th>Spring</th>
<th>12 hrs</th>
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<tbody>
<tr>
<td>EGN 3321 Engr Anal-Dynamics 3</td>
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<tr>
<td>*MAP 2302 Diff Equations 3</td>
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<tr>
<td>STA 3032 Prob &amp; Stats Engrs 3</td>
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<td>EGN 3373 Prin of Elec Eng 3</td>
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**THIRD YEAR**

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<tr>
<td>EIN 3314C Work Meas &amp; Dsgn 3</td>
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<tr>
<td>EIN 4118C IE Computer Appl 3</td>
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<tr>
<td>EIN 3354 Princ of Cost Engnrng 3</td>
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<tr>
<td>+ESI 4312 Operations Research 3</td>
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<tr>
<td>Summer</td>
<td>9 hrs</td>
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<tr>
<td>+EGN 4624 Engineering Admin 3</td>
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<tr>
<td>EGN 3358 Therm-Flts-Ht Trans or EGN 3343 Thermodynamics 3</td>
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<tr>
<td>*Cult &amp; Hist Foundations 1b 3</td>
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**FOURTH YEAR**

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<th>Spring</th>
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<tr>
<td>*Science Foundation II 3</td>
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<tr>
<td>EIN 4116C Sys Anal &amp; Dsgn 3</td>
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<tr>
<td>ESI 4234 Quality Engineering 3</td>
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<tr>
<td>+EIN 4243C Human Engrng 3</td>
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<tr>
<td>+Cult &amp; Hist Foundations 1a 3</td>
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<tr>
<td>+EIN 4391C Mfg Engr. 3</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. 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 3. 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.

Integrating BS/MS Degree Program

The IEMS department offers the Integrated BS/MS Program to students with 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 (36 hrs)

A. Communication Foundations (nine hours completed in AS degree program)
B. Cultural and Historical Foundations (3 hrs taken in AS degree program)
C. Mathematical Foundations (completed in AS degree program)
D. Social Foundations
E. Science Foundations

2. Engineering Technology Core Courses (26 hrs)

ETI 3651C Computer Applications 3 hrs
CET 3010 Intro to Info Technology 3 hrs
STA 2023 Statistical Methods I 3 hrs
ETI 4448 Applied Prq Mgmt 3 hrs

UCF Degree Programs

UCF 167
3. Lower Level Required Courses Taken (33 hrs)

- CET 2364 Systems Applications in C 3 hrs
- CET 3323C Digital Technology 4 hrs
- EET 3085C Electricity & Electronics 4 hrs
- ENC 3241 Writing for the Technical Professional 3 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 4483 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
- MAP 3401 Problem Analysis 3 hrs
- CET 4523 Applied Systems Analysis II 3 hrs
- CET 4429 Applied Database II 3 hrs
- CET 4593 Web Base Systems I 3 hrs
- CET 4584 Web Base Systems II 3 hrs
- CET 4663 Computer & Networks Security 3 hrs
- STA 5937 Data Mining I 3 hrs

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 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 15 hrs
- Humanities 3
- CET 3383 Appl Sys Anal I 3
- Social Science 3
- CET 3330 Intro to Info Tech 3
- CET 2364 Systems Apps in C 3
- Bio Science 3

Spring 14 hrs
- CET 4333 Comp Org & Design 3
- ENC 3241 Tech Rept Writing 3
- ETI 4448 Applied Proj Mgmt 3

Senior Year

Fall 15 hrs
- CET 4505 Appl Oper Sys I 3
- CET 4427 Appl Database I 3
- CET 4483 Intro to Telephony 3
- EEL 351C Comp Appl 3
- Tech Elective 3

Spring 15 hrs
- CET 4505 Appl Oper Sys I 3
- CET 4427 Appl Database I 3
- CET 4483 Intro to Telephony 3
- EEL 351C Comp Appl 3
- Tech Elective 3

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
   - 9 hrs

   B. Cultural and Historical Foundations
   - Select MAC 2147 Math for Calculus
   - Select STA 2023, Statistical Methods I
   - Select ECO 2023 Microeconomics
   - 3 hrs

   C. Mathematical Foundations
   - Select MAC 2147 Math for Calculus
   - Select STA 2023, Statistical Methods I
   - Select ECO 2023 Microeconomics
   - 3 hrs

   D. Social Foundations
   - Select ECO 2023 Macroeconomics or
   - Select PSY 2012 General Psychology
   - 3 hrs

   E. Science Foundations
   - Select PHY 2053C College Physics
   - Select one additional science
   - 4 hrs

2. Common Program Prerequisites (3 hrs)

   - MAC 2147 Math for Calculus
   - STA 2023 Statistical Methods I
   - ECO 2013 Macroeconomics
   - 3 hrs

   - Select MAC 2147 Math for Calculus
   - Select STA 2023, Statistical Methods I
   - Select ECO 2023 Microeconomics
   - 3 hrs

   - Select PHY 2053C College Physics
   - PH 3626 Ethics in Science and Technology
   - 3 hrs

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 3200 Computer Architecture Concepts
   - CGS 2545C Database Concepts
   - EEL 4882 Eng. Sys. SW (Operating Systems)
   - 3 hrs
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 must adopt the most current catalog.

Graduation: One year or equivalent proficiency exam.

9. Electives (variable)

Select primarily from upper level courses. May be outside of 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 residen-
  cacy 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 accept-
  ance 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 choose 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)

   A. Communication Foundations
      Select ENC 1101 & 1102 Composition 6 hrs
      Select SPC 1600 Fund Oral Communication 3 hrs
   B. Cultural and Historical Foundations
      Select CS 1010C Intro to Computer Sci or
      STA 2014C Principles of Statistics 3 hrs
   C. Mathematical Foundations
      Select MGF 1106 Finite Mathematics 3 hrs
      (may substitute a higher level math)
      Select CGS 1060C Intro to Computer Sci or
      STA 2014C Principles of Statistics 3 hrs
   D. Social Foundations
      Select PUB 2200 Social Problems 3 hrs
      Select PUB 2202 Contemporary Media Issues 3 hrs
      Select SCI 1000 Introduction to Psychology 3 hrs
      Select SCI 1001 Introduction to Human Life 3 hrs
      Select SCI 1002 Introduction to Human Behavior 3 hrs
   E. Science Foundations
      Select SCI 1000 Introduction to Psychology 3 hrs
      Select SCI 1001 Introduction to Human Life 3 hrs
      Select SCI 1002 Introduction to Human Behavior 3 hrs

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 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
   PGE 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 pre-
 requisite courses.

4. Upper Division Restricted Electives (3 hrs)

   JOU/GY 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 concen-
   tration 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 resi-
     dency 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.cooha.ucf.edu/crim/jus/
Undergraduate Program Coordinator and Pre-Law Advisor: David Slaughter
E-mail: dslaughter@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
■ 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 GPA

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
   B. Cultural Historical Foundations
   C. Mathematical Foundations
   D. Social Foundations
   E. Science Foundations

2. Common Program Prerequisites
   None

3. Core Requirements (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 3610 Property and Real Estate Law 3 hrs
   PLA 4935 Capstone: Legal Issues 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.

10. University Minimum Exit Requirements
    ■ A 2.0 UCF GPA
    ■ 60 semester hours earned after CLEP awarded
    ■ 48 semester hours of upper division credit completed
    ■ 30 of the last 36 hours of course work must be completed in residence at UCF
    ■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
    ■ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Business Administration, Criminal Justice, History, Political Science, Public Administration, Sociology
Related Minors: Business Administration, Criminal Justice, Political Science, Public Administration, Sociology

Transfer Note:
Courses taken at community colleges do not substitute for Upper Division courses.

Minor
The Legal Studies Minor consists of 21 or more semester hours. Required courses: PLA 3013 plus a minimum of 15 semester hours of legal studies courses and three semester hours of law-related courses selected with the aid of an advisor.

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall 14/15 hrs Spring 12/13 hrs
ENC 1101 3 ENC 3102 3
PSY 2012 or SYG 2000 3 CGS 1060C 3
MGF 1106 3 ECO 2013 or POS 2041 3
For. Lang. I or B. S. option 3/4 or ECO 2023
PAF 2102 2 For. Lang. II or B. S. option 3/4
*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 3 PLA 3103 3
SPC 1600 3 One Course: ARH 2050
EUH 2000 or HUM 2211 3 ARH 2051, MUL 2010, THE 3
or AMH 2010 3 1020, REL 2300, PHI 2010,
Elective 3 LIT 2110, LIT 2120
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 3106 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
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 selections 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 (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
     Select STA 1060C Statistics Using Excel or
     STA 2014C Principles of Statistics
     (may substitute a higher level computer
     science or statistics course) 3 hrs
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Restricted Electives (36 hrs)
   - Students must complete two different subject area concentrations from among those specified below
   - Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses). Courses are considered approved only when they have been reviewed by a Liberal Studies advisor and not simply when they appear on a student audit.
   - Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined
   - See the Liberal Studies Advising Team for details regarding each area

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

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 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
- 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 none

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 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 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 none

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared a Liberal Studies major at least one semester before graduation
- Internship credit cannot be used in this major without prior written permission of a Liberal Studies advisor
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies

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.
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 Studies: Sciences concentration)
   A. Physical/Mathematical Sciences
      CHM 2045C Chemistry Funds I & Lab
      MAC 2111 Calculus (or equivalent)
      CHM 2046 Analytical Chemistry
      CHM 2205 Introduction to Organic & Biochemistry
   B. Life Sciences
      BSC 2010C General Biology
      BSC 2011C Biological Diversity
      PCB 3034 Principles of Ecology & Lab
      & 3034L (PR: BSC 2010C and BSC 2011C)
   C. Social Science & Humanities
      PHI 3640 Environmental Ethics
      SYD 4510 Environmental Sociology

4. Subject Area: Environmental Studies Fundamentals (16 hrs)
   - IDS 3150 Foundations of Environmental Studies
   - ECO 3303 Economics and the Environment
   - GEO 3151C GIS for Environmental Studies & Lab or equivalent
   - PUP 3203 Environmental Politics
   - IDS 4156 Solving Environmental Problems

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

<table>
<thead>
<tr>
<th>Sciences Concentration</th>
<th>Environment</th>
<th>Nature</th>
<th>Policy</th>
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<tbody>
<tr>
<td>PCB 3023</td>
<td>Molecular Cell Biology</td>
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<tr>
<td>PCB 4302C</td>
<td>Physicochemical Limnology</td>
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<tr>
<td>PCB 4303C</td>
<td>Biological Limnology</td>
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<td>PCB 4723</td>
<td>Animal Physiology</td>
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<td>Florida Natural History</td>
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<td>PCB 3314</td>
<td>Marine Biodiversity</td>
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<td>PCB 3063</td>
<td>Genetics</td>
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<tr>
<td>PCB 3442</td>
<td>Florida Aquatic Ecology</td>
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</tbody>
</table>
| PCB 4683 | Population Biol & Evol | | (PR: PCB 3063)
| PCB 4723 | Animal Physiology | | (PR: PCB 3023)
| PCB 5054C | Conservation Biology | | (PR: PCB 3063)
| PCB 5326C | Ecosystems of Florida | | |
| ZOO 5815 | Zoogeography | | (PR: 8 hrs of ZOO)

Prerequisites listed are those which are not already included in the GEP or Section II: Core for Environmental Studies.

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 Econmomic Prob
   - ECS 4013 Economic Development
   - ENC 3211 Theory/Prac Tech Writing*
   - ENC 3241 Writing/Technical Professional*
   - EGN 4033 Technology and Social Change
   - ETI 3671 Technical 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 Envrn
   - 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 4222 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 asteriks.

Technology Concentrations
   Note: This subject area is available only to Liberal Studies - Environmental Studies track majors.
   - ESI 3671 Technical Economic Analysis
   - ESI 4635 Technical Administration
   - EGN 4033 Technology and Social Change
   - ECP 4603 Science in History
   - EGN 4814 Technology in History
   - EGN 4813 Science in History
   - EGN 4033 Technology and Social Change
   - ESI 3501 Ethics and Biological Science
   - PUP 4XXY GIS for Political Scientists
   - 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 international experience tied to a government or non-profit agency, a business, or a faculty grant project.
   - IDS 4XXX Internship
   - IDS 4XXX International Experience
   - IDS 4XXX Directed Research
   - IDS 4970H Thesis

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)

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, interdisciplinary, 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)
   Select CGS 1060C Intro to Computer Science or STA 2014C Principles of Statistics or STA 1060C Statistics Using Excel (may substitute a higher level computer science or statistics course)
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Core Requirements (6 hrs)
   - Approved course in ethics 3 hrs
   - Approved course in critical thinking 3 hrs

3. Restricted Electives (42 hrs)
   - Complete a minor from those offered within UCF’s 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.

Total Required Hours: 120 hours

UCF Degree Programs
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: is@mail.ucf.edu
Liberal Studies Advising Team, 407-823-0144

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

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.

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 - 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.

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

First Study Area (or select Women's Studies Cognate Area)
Womanist/Women of Color Area: (18 hrs)
   WST 3XXX Women of Color/Womanist 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)
Women’s Studies Cognate 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 3242 Modern Europe and the First World War
   EUH 5397 Social Theory/History
   HSC 3593C HIV 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
   PUP 3314 Minorities in Politics
   SOP 2772 Sexual Behavior
   SOP 3764 Psychology of Diversity
   SYD 3700 Race and Ethnic Minorities in the U.S.
   SYO 4100 Family Trends
   SYO 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

Other courses may be utilized for this area with the permission of the director.

*Undergraduate students will need professor’s permission to register for graduate-level courses.

Relevant Special Topics courses are periodically offered through various departments; with prior approval from the Women’s Studies Director, some courses may substitute.

2nd Study Area (from those below)
See the Liberal Studies Advising Teams for details regarding each area

Art
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)
   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

6. Foreign Language Requirements (0-8 hrs)
   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

7. Electives (variable)
   Select primarily from upper level courses, with Liberal Studies advisor’s approval. May be outside of Women’s Studies.

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
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
  - MAN 3301 Human Resource Management 3 hrs
  - MAN 4240 Organizational Theory & Behavior 3 hrs
  - BUL 4540 Employment Law 3 hrs
- Elective Courses
  - 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 4491 Internship 3 hrs

2. General Management Track (24 hrs)
- Required Courses
  - 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
  - GEB 4MM Global Strategic Management
  - MAN 3301 Management of Human Resources
- 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
  - MAN 4101 Human Relations in Management
  - MAN 4350 Training and Development
  - MAN 4310 Personnel Management Issues
  - MAN 4330 Compensation Administration
  - MAN 4320 Human Resources Recruitment and Selection
  - MAN 4401 Human Relations Management
  - * 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

6. Foreign Language Requirements
Admission: Two years of one foreign language in high school, or
### 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)

### Graduation
none

### University Degree Programs

#### 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.
- 3000 & 4000 level courses should not be taken at a community/junior college in the areas of Management, Marketing, Real Estate, or Finance. These are third and fourth year (junior, senior) course areas and cannot be satisfied with freshman, sophomore level courses.
- Any student receiving a business degree must complete one half (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.

#### 8. Electives*** (variable)

| Total Semester Hours Required | 120 hours |

#### FOUR YEAR PLAN OF STUDY - ALL MANAGEMENT MAJORS

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<thead>
<tr>
<th>Freshman</th>
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Must complete nine hours in a summer semester

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<td>ECO 3401*</td>
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“C” (2.0) or better grade required in each class. Students should choose to major in one of the two areas of study below

#### HUMAN RESOURCE MANAGEMENT MAJOR

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<tr>
<th>Junior</th>
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**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 MANAGEMENT MAJOR

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<td>MAN 4240</td>
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**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.

### MANAGEMENT INFORMATION SYSTEMS (B.S.B.A.)

<table>
<thead>
<tr>
<th>B.S.B.A.</th>
<th>College of Business Administration</th>
<th>BA 240, 407-823-2184</th>
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<tbody>
<tr>
<td><a href="http://www.bus.ucf.edu">http://www.bus.ucf.edu</a></td>
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#### 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. Communicaton Foundations (9 hrs)
   - B. Cultural and Historical Foundations (9 hrs)
   - C. Mathematical Foundations (3 hrs)
   - Select one: PSY 2012, SYG 2000, ANT 2000 (3 hrs)
   - E. Science Foundation (6 hrs)

2. Common Program Prerequisites

   Must be completed with a 2.5 or better.

   - ACG 2021 Principles of Financial Accounting
   - ACG 2071 Principles of Managerial Accounting
   - ECO 2013 Macroeconomics
   - ECO 2023 Microeconomics
   - CGS 2100C Computer Fundamentals for Business
   - ECO 3401 Quantitative Business Tools I

3. Required for all Business Majors

   - Common Body of Knowledge
     - First Semester in the College of Business Administration:
       - GEB 3031 Cornerstone
       - GEB 3356 Introduction to Internation 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  
MAR 3023  Marketing  3 hrs  
ISM 3011  Essentials of Management Info Sys  3 hrs  

Last Semester:  
MAN 4720  Strategic Management  3 hrs  

4. Special college and/or department requirements:  
- Students must complete 60 semester hours in courses outside the College of Business.  
- Students who change degree programs and select this major must adopt the most current catalog.  
- Students desiring to major in Management Information Systems must apply for admission to the major and have at least a 2.5 GPA in Common Program Prerequisites.  
- Final exams will be given during Exam Week.  
- Any student receiving a business degree must complete one half (30) of the upper level business courses for their degree program in the UCF College of Business Administration.  
- 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 must have access to late model computers and the software needed 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.  
- 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  
(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:  
Any 3000 or 4000 level ISM or IS prefix course, excluding those listed in the major.  
Any 3000 or 4000 level Computer Science prefix course (CDS, CGS, COP, COT).  
MAN 4240 Organizational Theory & Behavior  3 hrs  

May substitute the following with department approval:  
AGM 4400 Accounting Information Systems  
FIN 4453 Financial Models  

6. Foreign Language Requirements  
(0-8 hrs)  
Admission: Two years of one foreign language in high school, or one year of a 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 by 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)  
- 48 semester hours of upper division credit completed  

8. Electives***  
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  Spring  15 hrs  
ENC 1101  3  ENC 1102  3  
Cull-Hist I  3  Cull-Hist II  3  
SPC 1600  3  Art/Music/Lit  3  
***Elective  3  MAC 1105  3  
***Elective  3  CGS 2100C  3  
Must complete nine hours in a summer semester  

Sophomore  
Fall  15 hrs  Spring  15 hrs  
ECT 2023  3  ECT 2013  3  
AGM 2021  3  AGM 2071  3  
***Elective  3  Science  3  
***Elective  3  Science  3  
**C** (2.0) or better grade required in each class  

Junior  
Fall  15 hrs  Spring  15 hrs  
GEB 3031  6  MAR 3023  3  
ISM 3011  3  ISM 4400  3  
ISM 3005  3  ISM 4212  3  
GEB 3356  3  ISM 4220  3  
GEB 3031  6  ECO 3411  3  

Senior  
Fall  15 hrs  Spring  15 hrs  
ISM Elective  3  MAN 4720  3  
ISM Elective  3  ISM 4130  3  
ISM Elective  3  ISM 4130  3  
ISM Elective  3  BUL 3130  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.  

UCF Degree Programs  

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MARKETING (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)
2. Communication Foundations (9 hrs)
3. Cultural and Historical Foundations (9 hrs)
4. Mathematical Foundations
   - Select MAC 1105 College Algebra (3 hrs)
   - Select CGS 2100C Computer Fundamentals for Business (3 hrs)
5. Social Foundations
   - Select ECO 2013 Microeconomics (3 hrs)
   - Select ECO 2023 Macroeconomics (3 hrs)
6. Science Foundation
   - Select one: PSY 2012, SYG 2000, ANT 2000 (3 hrs)

3. Required for All Business Majors (30 hrs)

   A. Communication Foundations
      - ACG 2021 Principles of Financial Accounting (3 hrs)
      - ACG 2071 Principles of Managerial Accounting (3 hrs)
      - ECO 2013 Microeconomics (3 hrs)
      - *ECO 2401 Quantitative Business Tools I (3 hrs)
      - CGS 2100C: Computer Fundamentals for Business (3 hrs)
   * At UCF, students who have completed MAC2233 and STA2023 will be waived

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 prerequisite class.
   - Students wanting to major in Marketing must apply for admission to the major.
   - Final exams will be given during Exam Week.
   - Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.
   - Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
   - Students majoring in Marketing must earn a grade of “C” (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. MAR 3023 is included in this requirement.
   - Students must earn at least a 2.0 GPA in the major and CBA.
   - Students must complete 60 semester hours in courses outside the College of Business.

5. Required Courses (18 hrs)

   - MAR 3391 Professional Selling (3 hrs)
   - MAR 3503 Customer Behavior (3 hrs)
   - MAR 3613 Marketing Analysis and Research (3 hrs)
   - MAR 3641 Marketing Intelligence (3 hrs)
   - MAR 4803 Marketing Management (3 hrs)
   - MAR 4804 Marketing Strategy (3 hrs)

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 4711 Sport Marketing (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 4941 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*

   - MAR 3503 Consumer Behavior
   - MAR 3613 Marketing Analysis and Research
   - MAR 4803 Marketing Management

   Required International Courses**

   - MAR 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**

   - MAR 3323 Integrated Marketing Communication
   - MAR 3391 Professional Selling
   - MAR 3403 Sales Force Management
   - MAR 3613 Marketing Analysis and Research
   - 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 international electives must add up to 18 hours
   ** Required international + electives may add up to 18 hours
   *** IB 2000 may be used for up to six credit hours. Other approved internship or independent study 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

   Majors who meet departmental criteria are also eligible to apply for a marketing internship (MAR 4941) and/or take the small business consulting class (MAR 5941). MAR 5941 cannot count as one of the three restricted electives required of marketing majors. For additional information about the department, curriculum, faculty, events, and careers in marketing, students are invited to visit our department home page at: http://www.bus.ucf.edu/mar/.

Community/Junior College Transfer Notes

- Common Program Prerequisites for the State University System for College of Business Administration programs include...
Financial Accounting, Managerial Accounting, 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
Cult-Hist I* 3
SPC 1000 3
***Elective 3
***Elective 3
Must complete nine hours in a summer semester

Sophomore
Fall
ECO 2023* 3
AGC 2021* 3
Science 3
Psych/Soc/Ant 3
***Elective 3
Eco 3401* 3
* "C" (2.0) or better grade required in each class

Junior
Fall
GEB 3031 3
GEB 3356 3
MAR 3023 3
MAR 3025 3
Summer
ISM 3011 3
MAR 3641 3
MAR Elective 3

Senior
Fall
BU/L 3110 3
MAR 4803 3
MAR 3391 3
MAR 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.

MATHEMATICS-APPLIED 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 with an H such as MAC 2311H, MAC 2312H, MAC 2313H, MAC 2281H, 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, and MAP 2302 must either be taken from, or approved by the Department of Mathematics at UCF.

Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Math Department.

Students should take MAC 3105 (Elementary Linear and Matrix Algebra) before taking MAC 3106 (Linear Algebra). MAC 3105 will then be used as a free elective.

Co-op or internship credit cannot be used in this major.

Students must earn at least a "C" (2.0) in each required course.

Students should consult with a departmental advisor.

Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

(Note: Certain courses must be selected in the GEP for this major which brings the GEP hours above 36)

A. Communication Foundations

B. Cultural and Historical Foundations

C. Mathematical Foundations

Select MAC 2311 Calculus I 4 hrs
Select COP 3502C Computer Science I 3 hrs
D. Social Foundations

E. Science Foundations

Select BSC 2010C General Biology 4 hrs
Selected PHY 2048 & L Physics for Sci & Eng I 4 hrs

2. Common Program Prerequisites (11 hrs)

COP 3233 C Language 3 hrs
MAC 2311 Calculus I GEP
MAC 2312 Calculus II 4 hrs
MAC 2312 Calculus III 4 hrs
BSC 2010C General Biology 4 hrs

Select PHY 2048 & L Physics for Sci & Eng I & Lab 4 hrs

*See Transfer Notes for possible substitutes

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 3 hrs
ENC 3310 Magazine Writing 3 hrs
ENC 3311 Advanced Expository Writing 3 hrs
STA 2023 Statistical Methods I 3 hrs
MCF 3302 Logic and Proof in Mathematics 3 hrs
MAP 2302 Differential Equations 3 hrs

Select BSC 2010C General Biology 4 hrs
Mas 3106 Linear Algebra 4 hrs
(MAS 3105 is a prerequisite course)
Select one course

MAD 4203 Combinatorics & Graph Theory 3 hrs
MAP 4153 Vector and Tensor Analysis 3 hrs
MAP 4307 Appl of Complex Variables 3 hrs
MAP 4363 Appl Boundary Value Prob I 3 hrs
STA 4231 Statistical Theory I 3 hrs
MAP 4364 Appl Boundary Value Prob II 3 hrs
COP 3502C Computer Science I 3 hrs
STA 4232 Statistical Theory II 3 hrs
MAD 4226 Advanced Calculus I 4 hrs
COT 4500 Numerical Calculus 3 hrs
MAP 4103 Mathematical Modeling 3 hrs

4. Restricted Electives (10 hrs)

Applied Elective

Select from COP 4210, COP 4110, COP 5310, 4 hrs
COT 5405, COT 5507, COT 5510, EGN 3310, 3 hrs
EGN 3321, EGN 3343, EGN 3373
Upper division restricted

Upper division or graduate mathematics or statistics courses or from COT 5510 or COP 4210.

(MAC 2233, 2253, 2254 and MIF 4404 may not be used.)

Biological or physical sciences restricted

Select from PCB 3023, PCB 3034, PCB 3063, 3 hrs
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: 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, 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

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
Select COP 3502C Computer Science I
■ 3 hrs
D. Social Foundations
■ 6 hrs
E. Science Foundations
Select BSC 2010C General Biology
Select PHY 2048 & L Physics for Sci & Engr I
■ 4 hrs

2. Common Program Prerequisites

COP 3223* 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
■ GEP

*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

COP 3502C Computer Science I
■ GEP
PHY 2049&L Physics for Sci & Eng II w/lab
■ 4 hrs
STA 2023 Statistical Methods I
■ 3 hrs
MAP 2302 Differential Equations
■ 3 hrs

4. Advanced Core Requirements

Select one course
MHF 3302 Logic and Proof in Mathematics
■ 3 hrs
COT 3100C Intro to Discrete Structures
ENC 3241 Technical Report Writing
■ 3 hrs
MAD 3310 Linear Algebra
■ 4 hrs
MAD 4203 Combinatorics & Graph Theory
■ 4 hrs
MAP 4307 Appl of Complex Variables
■ 3 hrs
MAP 4363 Appl Boundary Value Prob I
■ 3 hrs
STA 4321 Statistical Theory I
■ 3 hrs
MAP 4364 Appl Boundary Value Prob II
■ 3 hrs
COP 3503C Computer Science II
■ 3 hrs
STA 4322 Statistical Theory II
■ 3 hrs
MAD 4236 Advanced Calculus I
■ 4 hrs
COT 4500 Numerical Calculus
■ 3 hrs
Select one course
MAP 4103 Mathematical Modeling
■ 3 hrs
MAP 4153 Vector and Tensor Analysis

5. Restricted Electives

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 4020 Programming Languages I
■ 3 hrs
COP 4060 Operating Systems
■ 3 hrs
COT 4211 Discrete Computational Structures
■ 3 hrs
or any MAA, MAD, MAP, MAS, or MTG upper division courses

6. Departmental Exit Requirements
■ Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-5 above).
■ Participate in an exit interview, and take an Educational Testing Service major field test.
■ Computer Competency met by COP 3502C.

7. Foreign Language Requirements
Admission: 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 63 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

1. UCF General Education Program (36 hrs)

(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 3223* C Language 3 hrs
MAC 2311** Calculus I GEP 4 hrs
MAC 2312** Calculus II 4 hrs
MAC 2313** Calculus III 4 hrs
BSC 2010C* General Biology 4 hrs
PHY 2048*6L 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 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)

(COP 3502C Computer Science I GEP 4 hrs
PHY 2048AL Physics for Sci & Eng II w/lab 4 hrs
Select one course STA 3023 Prob. & Stats for Engineers 3 hrs
STA 2023 Statistical Methods I 3 hrs
MAP 2302 Differential Equations 3 hrs)

4. Advanced Core Requirements (54 hrs)

(MHF 3302 Logic and Proof in Mathematics 3 hrs
COT 3100C Intro to Discrete Structures 3 hrs
Select one course MAP 4103 Mathematical Modeling 3 hrs
EML 3034 Modeling Meth in Mech. & Aero Eng 3 hrs
PHZ 3151 Computer Methods in Physics 3 hrs
MAP 4153 Vector and Tensor Analysis 3 hrs
MAP 4307 Appl of Complex Variables 3 hrs
MAP 4383 Appl Boundary Value Prob I 3 hrs
MAP 4364 Appl Boundary Value Prob II 3 hrs
MAA 4226 Advanced Calculus I 4 hrs
EGN 3321 Engineering Analysis - Dynamics 3 hrs
Select one course EGN 3420 Engineering Analysis 3 hrs
COT 4500 Numerical Calculus 3 hrs
Select one course MAS 3106 Linear Algebra 3 hrs
MAD 4203 Combinatorics & Graph Theory 3 hrs
Select one course EGN 3310 Engineering Analysis - Statics 3 hrs
PHZ 3221 Mechanics I 3 hrs
Select one course EGN 3373 Principles of Electrical Engineering 3 hrs
PHY 3101 Physics for Eng & Sci III 3 hrs
Select one course CHS 1440 Fund. of Chemistry for Eng. 4 hrs
CHM 2045C Chemistry Fundamentals 4 hrs
or any MAA, MAD, MAP, MAS, or MTG course 3 hrs
Select one course EGN 3358 Thermo-Fluids-Heat Transfer 3 hrs
PHY 3503 Thermal & Statistical Physics 3 hrs
or any MAA, MAD, MAP, MAS, or MTG course 3 hrs
Select one course EML 3701 Fluid Mechanics 3 hrs
CWR 3201 Engineering Fluid Mechanics 3 hrs
PHY 3101 Physics for Eng & Sci III 3 hrs
or any MAA, MAD, MAP, MAS, or MTG course 3 hrs
Select one course EML 4118C Industrial Applications of Computers 3 hrs
PHZ 3113 Intro. to Theoretical Methods of Physics 3 hrs
or any MAA, MAD, MAP, MAS, or MTG course 3 hrs
Select one course EGN 3331 Mechanics of Materials 3 hrs
CHM 2046 Chemistry Fundamentals II 3 hrs
ESI 4312 Operations Research 3 hrs
EML 3601 Solid Mechanics 3 hrs
EML 4220 Vibration Analysis 3 hrs
EEL 3004 Electrical Networks 3 hrs

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. The courses are designated with an H.

**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.

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UCF Degree Programs

PHY 4605 Wave Mechanics II
or any MAA, MAD, MAP, or MAS course

Select one course

<table>
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<tr>
<th>Course</th>
<th>Hrs</th>
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<tr>
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<td>Mechanics of Materials</td>
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<tr>
<td>EIN 3304</td>
<td>Intro. to Indust. Eng. &amp; Mngmnt Sys</td>
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<tr>
<td>EAS 3101</td>
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<td>EML 3601</td>
<td>Solid Mechanics</td>
</tr>
<tr>
<td>EEL 3004</td>
<td>Electrical Networks</td>
</tr>
<tr>
<td>or any PHY, PHZ, AST, MAA, MAD, MAP, or MAS course</td>
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5. Restricted Electives (9 hrs)

Select three courses

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<tr>
<th>Course</th>
<th>Hrs</th>
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<td>STA 4322</td>
<td>Statistical Theory II</td>
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<td>PHY 3323</td>
<td>Electricity &amp; Magnetism I</td>
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<td>Structure &amp; Property of Materials</td>
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<td>EGN 3613</td>
<td>Engineering Economic Analysis</td>
</tr>
<tr>
<td>EGN 3704</td>
<td>Engineering &amp; the Environmental</td>
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<tr>
<td>EEL 3342C</td>
<td>Intro. to Digital Circuits and Systems</td>
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<tr>
<td>EEL 3801C</td>
<td>Intro. to Computer Engineering</td>
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<tr>
<td>EEL 3657</td>
<td>Linear Control Systems</td>
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<td>Heat Transfer</td>
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<tr>
<td>EML 3312C</td>
<td>Feedback Control</td>
</tr>
<tr>
<td>EML 3252C</td>
<td>Kinematics and Mechanisms</td>
</tr>
<tr>
<td>EAS 4200</td>
<td>Flight Structures</td>
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<td>EAS 4400</td>
<td>Spacecraft Attitude Dynamics</td>
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<td>EAS 4505</td>
<td>Orbital Mechanics</td>
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<td>EAS 4105</td>
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<td>EML 4703</td>
<td>Fluid Mechanics II</td>
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<td>EMA 4223</td>
<td>Deformation and Fracture of Materials</td>
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<td>CWR 4020C</td>
<td>Hydraulics</td>
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<td>CWR 4101C</td>
<td>Hydrology</td>
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<td>ENV 4561</td>
<td>Environmental Eng Processes &amp; Design</td>
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<td>ESI 4234</td>
<td>Quality Engineering</td>
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<td>ESI 4523C</td>
<td>Systems Simulation</td>
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<td>EIN 4333C</td>
<td>Industrial Control Systems</td>
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<td>EEL 3470</td>
<td>Electromagnetic Fields</td>
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<td>EEL 3552C</td>
<td>Signal Analysis and Communications</td>
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<td>EEL 4750</td>
<td>Digital Signal Processing Fund.</td>
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<tr>
<td>EEL 4767C</td>
<td>Computer System Design I</td>
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<td>EEL 4832</td>
<td>Eng. Applications of Computer Models</td>
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<td>EEL 4851C</td>
<td>Engineering Data Structures</td>
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<tr>
<td>or any MAA, MAD, MAP, or MAS course</td>
<td></td>
</tr>
</tbody>
</table>

6. Departmental Exit Requirements

- Earn a grade of "C" (2.0) or better in each course required in the degree program (sections 2-5 above).
- Participate in an exit interview, and take an Educational Testing Service major field test.
- Computer Competency met by EGN 3420 or COP 3502C.

7. Foreign Language Requirements

Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

Graduation: None

8. Electives (variable)

Students desiring a double major in Engineering or Physics and Mathematics must also complete all requirements of both majors. Students should select electives which satisfy both majors simultaneously when possible.

9. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST, and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-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 which must be taken.

MATHEMATICS - PURE 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 3302H.

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, and MAP 3202 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)

(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

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 3223* 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

- PHY 2048* & L Physics for Sci & Eng I & Lab

- GEP

- 4 hrs

*See Transfer Notes for possible substitutes

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

184 UNIVERSITY OF CENTRAL FLORIDA 2003-2004 Undergraduate Catalog
MATHEMATICS EDUCATION (B.S.)

Department of Education
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
- SPCC 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 (7 hrs)
- MAC 2311 Calculus with Analytic Geometry I 4 hrs

D. Social Foundations (6 hrs)
- POS 2041 American National Government 3 hrs
- PSY 2012 General Psychology 3 hrs

E. Science Foundations (6 hrs)
- EME 2040 Technology for Educators 3 hrs
- Select one: ANT 2511 The Human Species or BSC 1005 Biological Principles 3 hrs

2. Common Program Prerequisites (31 hrs)

A. Communications (9 hrs)
- ENC 1101 Composition I GEP
- ENC 1102 Composition II GEP
- SPCC 1600 Fundamentals of Oral Communication GEP

B. Humanities (6 hrs)
- PHI 2010 Introduction to Philosophy GEP
- Select one: ARH 2050 The History of Art I or ARH 2051 The History of Art II or MUL 2010 Enjoyment of Music or THE 2000 Theatre Survey or FIL 1001 Cinema Survey

C. Mathematics (11 hrs)
- MAC 2311 Calculus with Analytic Geometry I GEP
- MAC 2312 Calculus with Analytic Geometry II 4 hrs
- STA 2023 Statistical Methods I 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 (10 hrs)
- EME 2040 Technology for Educators GEP
- Select 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 1030 Geology and its Applications
- Select one associated science lab: BSC 1005L Biological Principles Laboratory or GEO 1200L Physical Geography Laboratory or PCB 3023L Physical Science Laboratory

F. Education Courses (9 hrs)
- EDF 2050 Introduction to Education 3 hrs
- EDG 2701 Teaching Diverse Populations 3 hrs
- EME 2040 Technology for Educators 3 hrs

G. Diversity Courses (4 hrs)

H. Other Program Prerequisites (4 hrs)
MECHANICAL ENGINEERING (B.S.M.E.)
College of Engineering and Computer Science
Mechanical, Materials & Aerospace Engineering Department, ENGR 307, 407-823-5828,
Fax: 407-823-0208,
http://www.mmea.ucf.edu
A. H. Hagedorn, 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
  1. Take ENC 1101
  2. Take ENC 1102
  3. Prefer SPC 1016

B. Cultural and Historical Foundations
  1. Take MAC 2281, Calculus for Scientists and Engineers I, (4 hrs).
  2. Take STA 3032 (3 hrs).
  Note: Calculus II is the prerequisite for this course.

C. Mathematical Foundations
  1. Take MAC 2281,
  2. Take MAC 2282,
  3. Take MAC 2283,

D. Social Foundations
  1. Take ECO 1010 or ECO 2023.

E. Science Foundations
  1. Take PHY 2048/48L.
  2. Take 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.

3. Education Core Requirements
EDG 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)
MAP 2302 Differential Equations 3 hrs
MAP 4103 Mathematical Modeling 3 hrs
MAS 4301 Algebra Structure 3 hrs
MAC 2311 Calculus with Analytical Geometry I 3 hrs
MAC 3202 Number Theory 3 hrs
MTH 3302 Logic and Proof in Mathematics 3 hrs
MTH 4404 History of Mathematics 3 hrs
MTG 4212 Modern Geometry 4 hrs

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
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. (The requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

8. Departmental Exit Requirements
Achieve a minimum 2.5 GPA in all courses within the major.
Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
Pass all applicable sections of the Florida Teacher Certification Examination.

9. University Minimum Exit Requirements
A 2.0 UCF GPA
60 semester hours earned after CLEP awarded
48 semester hours of upper division credit completed
30 of the last 36 hours of course work must be completed in residency at UCF
25% of course work must be completed in residency at UCF
Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

10. Total Semester Hours Required 128 hours
### 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.

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EGN 1006C</td>
<td>Intro to the Engineering Profession</td>
<td>1 hr</td>
</tr>
<tr>
<td>EGN 1111C</td>
<td>Engineering Computer Graphics</td>
<td>2 hrs</td>
</tr>
<tr>
<td>EGN 1007C</td>
<td>Engineering Concepts &amp; Methods</td>
<td>1 hr</td>
</tr>
<tr>
<td>EGN 3310</td>
<td>Engineering Analysis - Statics</td>
<td>3 hrs</td>
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<tr>
<td>EGN 3321</td>
<td>Engineering Analysis - Dynamics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 3343</td>
<td>Thermodynamics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 3385</td>
<td>Structure &amp; Properties of Materials</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EGN 3373</td>
<td>Principles of Electrical Engineering</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 3032</td>
<td>Probability &amp; Statistics for Engineers</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EML 3034</td>
<td>Modeling Methods in MMAE</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EML 3303C</td>
<td>Mechanical Engineering Measurements</td>
<td>3 hrs</td>
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<tr>
<td>EML 3312C</td>
<td>Feedback Control</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EML 3500</td>
<td>Machine Design &amp; Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EML 3601</td>
<td>Solid Mechanics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EML 3701</td>
<td>Fluid Mechanics I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EML 4142</td>
<td>Heat Transfer</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EML 4220</td>
<td>Vibration Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EML 4535C</td>
<td>Introduction to CAD/CAM</td>
<td>3 hrs</td>
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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.

#### a. Energy Systems Option

<table>
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<th>Course Title</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EML 3101</td>
<td>Thermodynamics of Mechanical Sys</td>
<td>3 hrs</td>
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<tr>
<td>EML 4304C</td>
<td>Thermo-fluids Measurements</td>
<td>2 hrs</td>
</tr>
<tr>
<td>EML 4701</td>
<td>Fluid Mechanics II</td>
<td>3 hrs</td>
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<tr>
<td>Approved Electives</td>
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<td>8 hrs</td>
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#### b. Mechanical Systems Option

<table>
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<th>Course Title</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EMA 3002C</td>
<td>Experimental Techniques in Mechanics &amp; Materials</td>
<td>2 hrs</td>
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<tr>
<td>ELM 3526C</td>
<td>Kinematics of Mechanisms</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ELM 3804C</td>
<td>Digital Control in Mechanotics</td>
<td>3 hrs</td>
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<tr>
<td>ELM 4000</td>
<td>Energy Systems Elective</td>
<td>3 hrs</td>
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<tr>
<td>Approved Electives</td>
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<td>8 hrs</td>
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#### c. Materials Option

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<th>Course Title</th>
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<tr>
<td>EMA 3012C</td>
<td>Experimental Techniques in Mechanics &amp; Materials</td>
<td>2 hrs</td>
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<tr>
<td>EMA 3124</td>
<td>Structure &amp; Properties of Alloys</td>
<td>3 hrs</td>
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<td>EMA 4223</td>
<td>Deformation &amp; Fracture of Materials</td>
<td>3 hrs</td>
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<tr>
<td>Restricted Mechanical Systems Elective</td>
<td></td>
<td>3 hrs</td>
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<tr>
<td>Approved Electives</td>
<td></td>
<td>8 hrs</td>
</tr>
</tbody>
</table>

### 4. Departmental Graduation Requirements (6 hrs)

- EML 4501C: Engineering Design I or EGN 4XX1: Interdisciplinary Design I
- EML 4502C: Engineering Design II or EGN 4XX2: Interdisciplinary Design II
- 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.
- 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.

#### 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**

<table>
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<tr>
<th>Term</th>
<th>Fall Credits</th>
<th>Spring Credits</th>
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<tbody>
<tr>
<td></td>
<td>15 hrs</td>
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<td></td>
<td>13 hrs</td>
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<tr>
<td></td>
<td>12 hrs</td>
<td>15 hrs</td>
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<tr>
<td>EGN 1006C</td>
<td>Intro to Engr</td>
<td>EGN 1007C Eng Concept &amp; Meth</td>
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<tr>
<td>EGN 1111C</td>
<td>Eng Computer</td>
<td>EGN 1120 English Comp II</td>
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<tr>
<td>EGN 1007C</td>
<td>Eng Concepts</td>
<td>EGN 1440 Chem Eng or CHM 2045W lab</td>
</tr>
<tr>
<td>EGN 3303</td>
<td>Engineering</td>
<td>EGN 2282 Calc Sci &amp; Eng II</td>
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<tr>
<td>EGN 3310</td>
<td>Analysis - Statics</td>
<td>EGN 2312 Calc II</td>
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<td>Thermodynamics</td>
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<td>STA 3032</td>
<td>Probability</td>
<td>ECO 2013 Macroeconomics</td>
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<td>Modeling</td>
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<td>EML 3303C</td>
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<td>or EGN 2283 Sci &amp; Eng III</td>
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<td>Engineering</td>
<td>or EGN 2313 Calc III</td>
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<td>EML 3500</td>
<td>Analysis</td>
<td>or Spa Studies</td>
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<td>EML 3601</td>
<td>Machine</td>
<td>or Eng Anal Dynamics</td>
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<tr>
<td>EML 3701</td>
<td>Fluid Mechanics</td>
<td>or MAC 2233 or EGN 3310</td>
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<td>EML 4142</td>
<td>Heat Transfer</td>
<td>or MAC 2312</td>
</tr>
<tr>
<td>EML 4220</td>
<td>Vibration Analysis</td>
<td>EML 3304 Mod Thmd/MAE</td>
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<tr>
<td>EML 4535C</td>
<td>CAD/CAM</td>
<td>or MAP 2302, High Level Prog Lang</td>
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<td>(PR: EGN 3321)</td>
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<tr>
<td></td>
<td>8 hrs</td>
<td>(PR: CHS 1440 or CHM 2045C)</td>
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<td>(PR: EGN 3321)</td>
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**SECOND YEAR**

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</tr>
<tr>
<td>EGN 1111C</td>
<td>Eng Comp Graph</td>
<td>EGN 3321 Eng Anal Dynamics</td>
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<td>*PHY 2049 Phys Eng II w/lab</td>
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<tr>
<td>EGN 4XX1</td>
<td>Interdisciplinary I</td>
<td>STA 3022 Prob &amp; Stats/Engrs</td>
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<td>EML 4502C</td>
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**THIRD YEAR**

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<td>EML 3601</td>
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<td>(PR: MAP 2302, CR: MAC 2312)</td>
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<td>EML 3701</td>
<td>Fluid Mechanics</td>
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<td>*Science Foundations</td>
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**FOURTH YEAR**

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<td>EML 3101</td>
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<td>EML 4502C Eng Design II</td>
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<td>Eng Design I</td>
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<td>Inter Design I</td>
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<td>EGN 4XX1C</td>
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Approved Elective 2
Restricted Mechanical Systems Elect 3

II. MECHANICAL SYSTEMS OPTION

Fall  14 hrs 1,3
EML 3262C Kinem Mechnsms 3
(PR: EGN 3321) (PR: EGN 3343)
EML 4501C Eng Design I or 3
(PR: EML 3500, 3701)
EGN 4901C Inter Design I 3
(PR: EML 3500, 3701)
Restricted Energy Systems Elect 3
Restricted Energy Systems Elect 3
Approved Elective 2
Approved Elective 2

Spring  14 hrs 1,3
EML 4502C Eng Design II or 3
(PR: EML 4501C)
EGN 4902C Inter Design II 3
(PR: EGN 4901C)
EML 3804C Mechtronics 3
(PR: EML 4635C, CR: EML 3312C)
EMA 3012C ExpTec Mech/Mtl 3
(PR: EML 3365, EML 3601)
Approved Elective 3
* Cultural & Hist Foundations 3

III. MATERIALS OPTION

Fall  14 hrs 1,3
EML 3101 Thermo Mech Sys 3
(PR: EGN 3343)
EML 4501C Eng Design I or 3
(PR: EML 3500, 3701)
EGN 4901C Inter Design I 3
(PR: EML 3500, 3701)
EMA 3214 StructProps Alloys 3
(PR: EGN 3385)
Restricted Mechanical Systems Elect 3
Approved Elective 2

Spring  14 hrs 1,3
EML 4 502C Eng Design II or 3
(PR: EML 4501C)
EGN 4902C Inter Design II 3
(PR: EGN 4901C)
EMA 4223 Dfrmatn Frct Matls 3
(PR: EGN 3385)
EMA 3012C ExpTecTech 2
(PR: EGN 3385, EML 3601)
Approved Elective 3
* Cult & Hist Foundations 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. All students must remain in the Calculus sequence with which they began.
3. Students who change degree programs and select this major must continue with MAC 2282 and MAC 2283. Students who begin with MAC 2282 Calculus for Scientists and Engineers I, must continue with MAC 2283. Students who begin with MAC 2282 Calculus with Analytical Geometry I, must continue with MAC 2311 and MAC 2313. The individual courses in these two Calculus sequences are not interchangeable.
4. Students should consult with the MMAE Department in ENGR 381 for a list of approved technical electives and for the terms when specific courses of this type are to be offered. Students should check with their faculty advisor frequently to ensure that they are making satisfactory progress toward their degree.
5. The State University System requires most students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.
6. Mechanical engineering students must earn at least 32 hours in residence at UCF.

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.

Integrated BS/MS Degree Program

The Mechanical, Materials, and Aerospace Engineering Department offers the Integrated Integrated 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.

MEDICAL LABORATORY SCIENCES (B.S)

College of Health and Public Affairs
HPA2 335, 407-823-2968
http://www.cohpa.ucf.edu/molec.bio/
Undergraduate Program Coordinator: 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 prerequisite courses with 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 the program. 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 (38 hrs)

A. Communication Foundations 9 hrs
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
Select MAC 1105
Select CGS 2100C and STA 2023
D. Social Foundations 6 hrs
E. Science Foundations 8 hrs
Select BSC 2010C
Select CHM 2045C

2. Common Program Prerequisites (25 hrs)

BSC 2010C General Biology and lab GEP
CHM 2045C, 2046 Chemistry Fund’tals III & IV GEP, 4 hrs
STA 2023 Statistical Methods I GEP
ZOO 3733C Human Anatomy and Lab* 4 hrs
CHM 2210, 2211 Organic Chemistry I & II 8 hrs
MCB 3020C General Microbiology 5 hrs
PCB 3703C Human Physiology and Lab* 4 hrs

* see Transfer Notes
### Biology, Chemistry

**Related Minors:** Chemistry

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<th>Course Title</th>
<th>Credits</th>
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<td>CGS 2100C</td>
<td>Computer Fundamentals for Business</td>
<td>3 hrs</td>
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<tr>
<td>MAC 1105</td>
<td>Calculus with Analytical Geometry I</td>
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<td>SPC 1600</td>
<td>Immunodiagnostics</td>
<td>3 hrs</td>
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<td>CHM 2045C</td>
<td>General Chemistry I, II</td>
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<td>CHM 2046</td>
<td>General Chemistry I, II</td>
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<tr>
<td>ENC 1101</td>
<td>Intro to Research</td>
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<td>MAC 4550C</td>
<td>Clinical Immunohematology</td>
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<td>MAC 4640</td>
<td>Clinical Pathogenic Microbiology and Mycology</td>
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<td>MAC 3705</td>
<td>Concepts in Education/Management</td>
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<td>Immunohematology</td>
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<td>Interpretive &amp; Practical Hematology</td>
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<td>Diagnostic Microbiology</td>
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<td>MAC 4834C</td>
<td>Advanced Instrumentation</td>
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<td>CGS 2100C</td>
<td>Computer Fundamentals for Business</td>
<td>3 hrs</td>
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### 4. Upper Division Restricted Electives

**none**

### 5. Departmental Exit Requirements

**126 hrs**

- **A minimum 2.5 overall GPA is required for clinical assignment.**
- **The Degree in Medical Laboratory Sciences will be awarded upon satisfactory completion of the University's didactic component and the clinical component in affiliated hospital laboratories.**
- **Upon receiving the degree in Medical Laboratory Sciences, the graduate will be eligible to write a national certification examination and then qualify for State Licensure.**
- **Students must earn a grade of “C” (2.0) or higher in required courses with a minimum 2.5 overall GPA for graduation.**

### 6. Electives

**none**

### 7. Foreign Language Requirements

**0-8 hrs**

**Admissions:** Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

**Graduation:** None

### 8. University Minimum Exit Requirements

- **A 2.0 UCF GPA**
- **60 semester hours earned after CLEP awarded**
- **48 semester hours of upper division credit completed**
- **30 of the last 36 hours of course work must be completed in 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

**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

#### Freshman Year

**Fall**

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<td>Clinical Immunohematology</td>
<td>3 hrs</td>
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<td>Medical Technology Seminar</td>
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<td>MAC 2210</td>
<td>General Chemistry I, II</td>
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<tr>
<td>or REL 2300</td>
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<tr>
<td>or PHI 2010</td>
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#### Sophomore Year

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<td>or CHM 2210</td>
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**Spring**

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#### Junior Year

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<tr>
<td>or PHI 2010</td>
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**Spring**

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<tr>
<td>MUL 2010</td>
<td>Medical Technology Seminar</td>
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<tr>
<td>or REL 2300</td>
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<tr>
<td>or PHI 2010</td>
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#### Senior Year

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<tr>
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<tr>
<td>or REL 2300</td>
<td>Medical Technology Seminar</td>
<td>3 hrs</td>
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<tr>
<td>or PHI 2010</td>
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**Spring**

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<th>Course Title</th>
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<tr>
<td>MUL 2010</td>
<td>Medical Technology Seminar</td>
<td>3 hrs</td>
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<tr>
<td>or REL 2300</td>
<td>Medical Technology Seminar</td>
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<tr>
<td>or PHI 2010</td>
<td>Medical Technology Seminar</td>
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### MOLECULAR BIOLOGY AND MICROBIOLOGY (B.S.)

**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

**Admission Requirements:**

- **Graduation:** None

**Degree Requirements**

- **Students who change degree programs and select this major must adopt the most current catalog.**
- **Students should complete the General Education Program before transferring within the Florida Public University/Community College System.**
- **Students should consult with a departmental advisor.**
- **The courses designated in section 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**

**36 hrs**

- **A. Communication Foundations**
- **B. Cultural Historical Foundations**
- **C. Mathematical Foundations**
- **D. Social Foundations**
- **E. Science Foundations**

**2. Common Program Prerequisites**

**22 hrs**

- **BSC 2010C**
- **BSC 2011C**
- **CHM 2045C, 2046**, General Chemistry I, II, + Lab
- **CHM 2210, 2211**, Organic Chemistry I, II, + Lab
- **MAC 2311**, Calculus with Analytical Geometry I

**3. Core Requirements**

**39 hrs**

- **MCB 3020C**
- **General Microbiology**
To be eligible for a major in Molecular Biology and Microbiology:

- **ZOO 5745C Essentials of Neuroanatomy** 4 hrs
- **ZOO 4744 Neurobiology** 3 hrs
- **ZOO 3733C Human Anatomy** 4 hrs
- **ZOO 3701C Dissection Techniques** 2 hrs
- **PCB 5239 Tumor Biology** 3 hrs
- **PCB 5238 Immunopathology** 4 hrs
- **PCB 5275 Signal Transduction Mechanisms** 3 hrs
- **PCB 4529 Experimental Molecular Biology** 3 hrs
- **PCB 3703C Human Physiology** 4 hrs
- **MLS 4625 Advanced Clinical Chemistry I** 3 hrs
- **MLS 4505C Immunodiagnostics** 3 hrs
- **MLS 4334C Hemostasis** 3 hrs
- **MLS 4030C Clinical Parasitology** 2 hrs
- **MLS 4660 Clinical Pathogenic Microbiology and Mycology** 5 hrs
- **MLS 4050C Immunodiagnostics** 3 hrs
- **MLS 4025 Advanced Clinical Chemistry I** 3 hrs
- **MLS 4030 Advanced Clinical Chemistry II** 3 hrs
- **PCB 3070C Pathological Microbiology** 2 hrs
- **PCB 4234 Cellular Immunology** 3 hrs
- **PCB 4805 Endocrinology** 3 hrs
- **PCB 4529 Experimental Molecular Biology** 3 hrs
- **PCB 5275 Signal Transduction Mechanisms** 3 hrs
- **PCB 5283 Immunopathology** 3 hrs
- **PCB 5283 Tumor Biology** 3 hrs
- **ZOO 3701C Dissection Techniques** 2 hrs
- **ZOO 3733C Human Anatomy** 4 hrs
- **ZOO 4603C Vertebrate Embryology** 5 hrs
- **ZOO 4744 Neurobiology** 3 hrs
- **ZOO 4750C Vertebrate Histology** 4 hrs
- **ZOO 5745C Essentials of Neuroanatomy** 4 hrs

5. **Departmental Exit Requirements** (81-91 hrs)

   To be eligible for a major in Molecular Biology and Microbiology:
   - 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** (30-36 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 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:** 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 Human Anatomy and Human Physiology I & II requirement at the community college (lower division) 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 pursuing 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**

<table>
<thead>
<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>or ANT 2000</td>
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<tr>
<td>MAC 1105</td>
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<td>MAC 1114</td>
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<tr>
<td>SLS 211L**</td>
<td>1</td>
<td>BSC 2010C</td>
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<tr>
<td>or SYG 2049</td>
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<td>or AMH 2049</td>
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<tr>
<td>SYG 2049L</td>
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**Sophomore Year**

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<td>CHM 2211</td>
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<tr>
<td>STA 2203</td>
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<td>CHM 2211L</td>
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<tr>
<td>MAC 2311 or MAC 2253</td>
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<td>PCB 3020C</td>
<td>5</td>
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<tr>
<td>PCB 3233L</td>
<td>3/1</td>
<td>PCB 3963</td>
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<td>or EEU 2001 or AMH 2020</td>
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<tr>
<td>or HUM 2211 or HUM 2230</td>
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<td>or HUM 2211 or HUM 2230</td>
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Plan your required 9 summer hours into your course of study.

**Junior Year**

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<td>PCB 4524</td>
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**Senior Year**

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<td>SPC 1600</td>
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<td>Elective</td>
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<td>Elective</td>
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<td>or MUL 2010 or THE 2000</td>
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</table>
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)
   (see General Education Program for detailed information)
   A. Communication Foundations
   - Select one two-semester sequence
   - Select MUH 4212 History and Literature II
   B. Cultural and Historical Foundations
   - Select MGF 1106 Finite Mathematics
   C. Mathematical Foundations
   - Select MGF 1100 Finite Mathematics
   - Select STA 1060C Statistics Using Excel
   D. Social Foundations
   - Select MGF 1100 Finite Mathematics
   E. Science Foundations
   - Select MGF 1100 Finite Mathematics

2. Common Program Prerequisites (24 hrs)
   (See Specially required for specific requirements and for the credits required)
   MUC 1111* Music Theory IA
   MUC 1112* Music Theory IB
   MUC 1214* Ear Training & Sight Singing IA
   MUC 1215* Ear Training & Sight Singing IB
   MUC 2246* Ear Training & Sight Singing IA
   MUC 2247* Ear Training & Sight Singing IB
   MUN XXXX Major Ensembles (four semesters)
   (4 hrs)

3. Core Requirements (14 hrs)
   Piano proficiency
   (repeat MKV 3131-4141 Class Piano III/IV until passed)
   MUS 1010 Music Forum (six semesters)
   MUS 2671 20th Century Musical Analysis
   MUC 3453 Piano
   MUC XXXX Major Ensembles
   MUG 3104 Basic Conducting
   MUG 4211 History & Literature I
   MUG 4212 History & Literature II
   (6 hrs)

4. Specialty Requirements (10 hrs)
   Piano
   MUL 3400 Piano Literature I 2 hrs
   MUL 3401 Piano Literature II 2 hrs
   Ensemble
   Restricted Electives 2 hrs
   Voice
   Restricted Electives 2 hrs
   Woodwinds
   Brass
   Percussion
   Strings
   Minor Ensemble MUN XXXX 2 hrs
   Minor Ensemble MUN XXXX 2 hrs
   Minor Ensemble MUN XXXX 2 hrs
   Minor Ensemble MUN XXXX 2 hrs
   Recitals
   BA students must complete three of their comprehensive examinations before auditioning for their terminal recital at the Junior level.

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 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 MUS 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.

UCF Degree Programs
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 2010 U.S. History 1492-1877 (3 hrs)
- AMH 2020 U.S. History 1877-Present (3 hrs)
- MUH 4212 History and Literature II (3 hrs)

C. Mathematical Foundations

- MGF 1106 Finite Mathematics (3 hrs)

Select one:

- STA 1060C Basic Statistics Using Excel (3 hrs)
- STA 2024C 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:

- ANT 2511 The Human Species or
- BSC 1005 Biological Principles (6 hrs)

Note: See laboratory component under Section 2.

2. Common Program

Prerequisites (19 hrs)

A. Communications

- ENC 1101 Composition I
- ENC 1102 Composition II
- SPC 1600 Fundamentals of Oral Communication

B. Humanities

- AMH 2010 U.S. History 1492-1877
- AMH 2020 U.S. History 1877-present
- MUH 4212 History and Literature II

C. Mathematics

- MAC 1105 College Algebra
- MGF 1106 Finite Mathematics

One of the following (per GEP)

- STA 1060C Basic Statistics using MS Excel or
- STA 2024C Principles of Statistics

D. Social Sciences/History

- 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

- PSC 1121 Physical Science (3 hrs plus Lab)

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)
Students are expected to provide their own transportation to assigned locations.

Consult with the music education advisor for course selection and assignment. 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 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, teaching, and evaluating student teachers become involved with children as rapidly as possible, and gradually assume 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.

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 a variety of grade levels and settings (e.g., urban, suburban, general, choral,
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 residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits admitted

11. Total Semester Hours Required: 134 hours
Related Programs: Music, Music (BFA), Theatre
Related Minors: Music, Theatre

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.
- Students transferring to UCF must pass the Music Education Proficiency in order to be accepted as a Music Education major
- Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Common Program Prerequisites sections because the revision of State Board of Education Rule 6A-5.066 has made provisions highly prescriptive, which may result in additional coursework to satisfy degree requirements.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- MUE 2040*: May use equivalent course or proficiency
- MUT 1111*, MUT 1112*: May use MUT 1121, 1122. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective
- MUT 1241*, MUT 1242*: May use MUT 1221, 1222, or MUT 1261, 1262, or MUT 1271, 1272
- MUT 2116*, MUT 2117*: May use MUT 2126, 2127. Note: Since these courses are three credits at some schools, the extra credit transfers as a free elective
- MUT 2246*, MUT 2247*: May use MUT 2226, 2227, or MUT 2266, 2267, or MUT 2276, 2277
- MVK 1111, 2121*: May use 1112, 2122 or MVK 1211, 2221

Note: Education majors are required to take six hours (in addition to
EDG 2701) that have an international or diversity focus. While native UCF students complete this requirement as part of the GEP, transfer students must take appropriate courses that have been so designated by their previous institution.

Note: Students must take a Natural Science class with the lab and should select a course that fulfills the GEP requirement.

MUSIC PERFORMANCE (B.M.)
College of Arts and Sciences
Department of Music, CNH 205
http://pegasus.cc.ucf.edu/~ucfamusic
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
- D. Science Foundations 3 hrs
- E. Science Foundations 6 hrs

2. Common Program Prerequisites (24 hrs)
- MUT 1111* Music Theory IA 2 hrs
- MUT 1121* 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
- MVK 3131-4141 Class Piano III-IV until passed
- MVK 1111-2121* Class Piano I-II (or proficiency)
- *See Transfer Notes for possible substitutes

3. Core Requirements (18 hrs)
- Piano proficiency 0 hrs
- (repeat MVK 3131-4141 Class Piano III-IV until passed)
- MUS 1010 Music Forum (eight semesters) 0 hrs
### 4. Specialty Requirements: (39 hrs)

**Piano**
- MUL 3400 Piano Literature I 2 hrs
- MUL 3401 Piano Literature II 2 hrs
- MUL 4401 Studio Teaching 2 hrs
- Ensembles
  - Major Not required 0 hrs
  - Minor-MUN 3453 Piano Ensemble 4 hrs
- Restricted Electives 31 hrs

**Musical Pedagogy**
- MUL 3400 Piano Literature I 2 hrs
- MUL 3401 Piano Literature II 2 hrs
- MVK 3460 Piano Pedagogy I 1 hr
- MVK 4641 Piano Pedagogy II 1 hr
- MUS 4401 Studio Teaching 2 hrs
- Ensembles
  - Major Not required 0 hrs
  - Minor-MUN 3453 Piano Ensemble 4 hrs
- Restricted Electives 27 hrs

**Guitar**
- Ensembles
  - Major Not required 0 hrs
  - Minor-MUN 3463 String Ensemble 4 hrs
- Restricted Electives 35 hrs

**Voice**
- FRE 1005 French Diction 1 hr
- GER 1005 German Diction 1 hr
- ITA 1005 Italian Diction 1 hr
- MVK 4460 Voice Pedagogy I 1 hr
- MVK 4641 Voice Pedagogy II 1 hr
- MUL 3603 Amer./English Song Literature 1 hr
- MUL 3604 German Song Literature 1 hr
- MUL 3605 French Song Literature 1 hr
- Ensembles
  - Major-MUN 3313 University Chorus 8 hrs
  - Minor-MUN XXX 4 hrs
- Restricted Electives 19 hrs

**Woodwinds**
- MUN 3XXX Major Ensemble 4 hrs
- MUN 3XXX Minor Ensemble 4 hrs
- MUL 3441 Woodwind Literature 2 hrs
- MUN 3XXX Woodwind Pedagogy 2 hrs
- Restricted Electives 27 hrs

**Brass**
- MUN 3XXX Major Ensemble 4 hrs
- MUN 3XXX Minor Ensemble 2 hrs
- MUL 3442 Brass Literature 2 hrs
- MUL 4640 Brass Pedagogy 2 hrs
- Restricted Electives 27 hrs

**Percussion**
- MUN 3XXX Major Ensemble 4 hrs
- MUN 3XXX Minor Ensemble 2 hrs
- MUL 3463 Percussion Literature 2 hrs
- MVP 3630 Percussion Pedagogy 2 hrs
- Restricted Electives 27 hrs

**Strings**
- MUN 3XXX Major Ensemble 4 hrs
- MUN 3XXX Minor Ensemble 2 hrs
- MUL 3432 Strings Literature 2 hrs
- MUS 4640 Strings Pedagogy 2 hrs
- Restricted Electives 27 hrs

**Composition**
- MUT 3571 Counterpoint 3 hrs
- MUT 4384 Arranging and Composing Music 3 hrs
- MUG 3302 Instrumental Conducting & Materials 3 hrs
- MUC 3311 MIDI Sequencing I 3 hrs
- MUC 4441 MIDI Sequencing II 3 hrs
- MUS 4347C Digital Notation 3 hrs
- MUT 3170 Jazz Theory I 2 hrs
- Ensembles
  - Major 4 hrs
  - Restricted Electives 19 hrs

### 5. Restricted Electives (See above)
- Any secondary performance course not in area of major instrument or

### 6. Special Non-Course Requirements

- Any MUC, MUE, MUG, MUH, MUL, MUN, MUS, MUT courses numbered 3000 or higher.

### 7. Departmental Exit Requirements

- 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.

- 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, Symphonic Wind Ensemble, and Marching Band.
  - Four hours of Jazz Ensemble may be used as Major Ensemble credit.
  - Ensemble assignment is by the Ensemble directors.
  - Transfer students must take Major Ensemble during each of their remaining semesters.
  - Native UCF students must take each Major Ensemble credit in a separate semester.
  - Students taking a course in Performance must concurrently take a major ensemble appropriate to their principal instrument or voice.

### Minor Ensemble Participation

- If Minor Ensemble is taken at UCF, the four semester hours of credit must be spread over at least three separate semesters.
- If Minor Ensemble credits are transferred to UCF, each remaining credit must be taken in a separate semester.
- Minor Ensembles include: Brass, Percussion, Piano, String, Vocal (except Opera Workshop), Woodwind, Jazz, Women’s and Early Music Ensemble.

### Recitals

- 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 comprehensive 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)

- Admission: Met by graduation requirement.
- Graduation: Two 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 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 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

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

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 program must be made directly to the School of Nursing prior to February 1 of the year admission is sought for the Orlando Campus and June 1 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.

Graduates are eligible to take the licensing examination for registered nurses (NCLEX). The program is accredited by the National League for Nursing, Commission on Collegiate Nursing Education and approved by the Florida State Board of Nursing.

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog

Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General Education requirements and the Common Program Prerequisites

Students should consult with a School of Nursing advisor for clarification of questions regarding prerequisite requirements which cannot be answered by college advisors

The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities, and should be completed in the first 60 hours

A minimum overall GPA of 2.5 and a minimum 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
   B. Cultural Historical Foundations
      9 hrs
   C. Mathematical Foundations
      6 hrs
   MAC 1105
   Select STA 2014C
   D. Social Foundations
      6 hrs
   Select both SYG 2000 and PSY 2012*
   Select ECO 2013 or ECO 2023 or POS 2041
   E. Science Foundations:**
      6 hrs
   Select BSC 100C
   Select GEO 100C (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 1022 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

2. Common Program Prerequisites (22 hrs)
   A. General Education Requirements
      12 hrs
      Additional General Education Course
      B. Science Foundations:**
         6 hrs
      Select CHM 1032 (and lab)
   C. Social Science Foundations
      3 hrs
      Select both SYG 2000 and PSY 2012*
   D. Health Science Foundations
      3 hrs
      Select SYG 2000 or PSY 2012*
   E. General Education Foundation
      2 hrs
      Select SYG 2000
   F. Behavioral Science
      3 hrs
      Select SYG 2000
   G. Social Science
      1 hr
      Select SYG 2000
   H. Social Science
      1 hr
      Select SYG 2000
   I. Social Science
      1 hr
      Select SYG 2000
   J. Social Science
      1 hr
      Select SYG 2000
   K. Social Science
      1 hr
      Select SYG 2000
   L. Social Science
      1 hr
      Select SYG 2000
   M. Social Science
      1 hr
      Select SYG 2000
   N. Social Science
      1 hr
      Select SYG 2000
   O. Social Science
      1 hr
      Select SYG 2000
   P. Social Science
      1 hr
      Select SYG 2000
   Q. Social Science
      1 hr
      Select SYG 2000
   R. Social Science
      1 hr
      Select SYG 2000
   S. Social Science
      1 hr
      Select SYG 2000
   T. Social Science
      1 hr
      Select SYG 2000
   U. Social Science
      1 hr
      Select SYG 2000
   V. Social Science
      1 hr
      Select SYG 2000
   W. Social Science
      1 hr
      Select SYG 2000
   X. Social Science
      1 hr
      Select SYG 2000
   Y. Social Science
      1 hr
      Select SYG 2000
   Z. Social Science
      1 hr
      Select SYG 2000

   **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 1022 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

3. Core Requirements (63 hrs)

   A. Therapeutic Foundations (3 hrs)
      3 hrs
      Select NUR 3065
   B. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3156
   C. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3235
   D. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3235L
   E. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3235L
   F. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   G. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   H. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   I. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   J. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   K. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   L. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   M. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   N. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   O. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   P. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   Q. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   R. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   S. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   T. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   U. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   V. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   W. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   X. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   Y. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L
   Z. Clinical Skills (3 hrs)
      3 hrs
      Select NUR 3616L

   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
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)
- 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: 121 hours

Related Programs: Health Services Administration, Social Work, all health programs

Related Minors: Aging Studies Certificate, Psychology, Health Sciences, Health Services Administration

Transfer Notes:
- Examples of Community College Equivalent Courses - Prerequisites
  - General Psychology (PSY 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

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall  13 hrs  Spring  14 hrs
SYG 2000  3  CHM 1032L  3/1
ENC 1101  3  ENC 1102  3
MAC 1105  3  STA 2014C or STA 2023  4
BSC 2010C  4  ZOO 3733C  4

Summer  6 hrs
HUN 3011  3
PSY 2012  3

Sophomore Year

Fall  13 hrs  Spring  13 hrs
POS 2041 or ECO 2013 or ECO 2023  3  EUH 2001 or HUM 2230  3
or AMH 2010 or WOH 2012  3  or AMH 2020 or WOH 2022  3  MCB 2005C  4
or AMH 2010 or WOH 2012  3  or AMH 2020 or WOH 2022  3  MCB 2005C  4

NURSING (B.S.N.)

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
http://www.coehpa.ucf.edu/nursing/

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 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
UCF Degree Programs

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 or STA 2023
   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
      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 2005C Health Microbiology 4 hrs
   CHM 1032L General Chemistry and lab** GEP
   ZOO 3733C Human Anatomy** 4 hrs
   PCB 3703C Human Physiology 4 hrs
   STA 2014C or 2023 Principles of Statistics** GEP
   SOW 20104 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.

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
   HUN 3011 Human Nutrition 3 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

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 residence at UCF
   ■ A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   ■ Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hours

Related Programs: Health Services Administration, Social Work, All health programs
Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

Sample Plan of Study

Semester I
NUR 3809 3
NUR 3065 3
Semester II
NUR 4084 3
NUR XXXX (elective) 3
Semester III
NUR 3837 3
NUR 4837 3
Semester IV
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-requisite)
   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, 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
   - Select STA 2014C
   - Select STA 2014C
   - Select STA 2014C
   - Select STA 2014C
   - Select STA 2014C
   - Select STA 2014C

2. Common Program Prerequisites (21 hrs)
   - PSY 2012 General Psychology**
   - SYG 2000 General Psychology**
   - MCB 200SC
   - CHM 1032L
   - ZOO 3733C
   - PCB 3703C
   - 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

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.
- 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 6 hrs
Select SPC 1600 Fund Oral Communication 3 hrs

B. Cultural and Historical Foundations
Select MGF 1106 Finite Mathematics 3 hrs
(at least an equivalent level math)
Select STA 2023 Statistical Methods I 3 hrs

C. Mathematical Foundations

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 complete a "C" (2.0) or better Core Courses can be taken

STA 2023 Statistical Methods I 3 hrs
COM 301C Communication & Human Relations 3 hrs
COM 311C Communication Research Methods 3 hrs
Select one of the following:
CSG 2100C Comp. Fundamentals for Business 3 hrs
CIS 2585C Desktop/Internet Publishing 3 hrs
CGS 3175 Public Relations Publications 3 hrs
PUR 4110C Public Relations Publications 3 hrs
ENC 3250 Professional Writing 3 hrs

4. Core Requirements (12 hrs)

SPC 3425C Group Interaction & Decision Making 3 hrs
SPC 3445 Leadership Through Oral Communication 3 hrs
COM 3110 Business and Professional Communication 3 hrs
COM 3120 Organizational Communication 3 hrs

5. Electives (9 hrs)

Select from the following:
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 4XX Interviewing Principles and Practices
COM 4XXX Health Communication
COM 4XX Comm. Training and Development
COM 4XX 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
C. Mathematical Foundations
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

Formal Logic I
Ethics
PHI 3670 Ethical Theory

Knowledge
PHI 3320 Philosophy of Mind
PHI 4341 Ways of Knowing
PHI 4300 Theories of Knowledge
PHI 4500 Metaphysics

Research Methods
PHI 3XXX Research Methods in Philosophy

Disciplinary and Interdisciplinary Knowing (6 hrs)
Select two courses:
PHI 3400 Philosophy of Law
Graduation: Two semesters or equivalent proficiency exam. Majors must demonstrate graduate interest. Students considering graduate school should complete two years of a foreign language, preferably one functional in their area of pro-

Electives (variable)

Applications (9 hrs)

Select three courses:

- HUM 4330 Performance Theory
- PHI 3626 Ethics in Science & Technology
- PHI 3022 Sexuality, Gender, & Philosophy
- PHI 3033 Philosophy, Religion, and the Environment
- PHI 3636 Ethical Issues in the 21st Century
- PHI 3640 Environmental Ethics
- PHI 3941 Philosophy Practicum
- PHI 4321 Philosophies of Embodiment: Mind/Body/Self
- PHI 4921 Philosophy in the News
- PHI 4633 Ethics and Biological Science
- PHI 4804 Critical Theory
- PHM 3100 Freedom and Justice
- PHM 3123 Feminist Theory
- PHIM 4031 Environmental Philosophy
- REL 3XXX Religion, Philosophy and Film

*Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by Departmental advisor.

4. Upper Division Restricted Electives (6 hrs)

Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

5. Honors in the Major

Students considering graduate school in philosophy are strongly encouraged to take Honors in the Major. Requirements are as follows:

- PhD 3000 Philosophy of Religion (6 hrs)
- PHI 4400 Philosophy of Science
- PHI 4420 Philosophy of Social Science
- PHI 3461 Philosophy of Psychology
- PHI 3800 Aesthetics

Applications (9 hrs)

Select three courses:

- HUM 4330 Performance Theory
- PHI 3626 Ethics in Science & Technology
- PHI 3022 Sexuality, Gender, & Philosophy
- PHI 3033 Philosophy, Religion, and the Environment
- PHI 3636 Ethical Issues in the 21st Century
- PHI 3640 Environmental Ethics
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- REL 3XXX Religion, Philosophy and Film

*Appropriate Special Topics in Philosophy may be substituted for some core courses with prior 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:

- Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

- PhD 3000 Philosophy of Religion
- PHI 4400 Philosophy of Science
- PHI 4420 Philosophy of Social Science
- PHI 3461 Philosophy of Psychology
- PHI 3800 Aesthetics

Applications (9 hrs)

Select three courses:

- HUM 4330 Performance Theory
- PHI 3626 Ethics in Science & Technology
- PHI 3022 Sexuality, Gender, & Philosophy
- PHI 3033 Philosophy, Religion, and the Environment
- PHI 3636 Ethical Issues in the 21st Century
- PHI 3640 Environmental Ethics
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- PHM 3123 Feminist Theory
- PHIM 4031 Environmental Philosophy
- REL 3XXX Religion, Philosophy and Film

*Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by Departmental advisor.

4. Upper Division Restricted Electives (6 hrs)

Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

5. Honors in the Major

Students considering graduate school in philosophy are strongly encouraged to take Honors in the Major. Requirements are as follows:

- Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

- PhD 3000 Philosophy of Religion
- PHI 4400 Philosophy of Science
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Applications (9 hrs)

Select three courses:

- HUM 4330 Performance Theory
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- REL 3XXX Religion, Philosophy and Film

*Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by Departmental advisor.

4. Upper Division Restricted Electives (6 hrs)

Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

5. Honors in the Major

Students considering graduate school in philosophy are strongly encouraged to take Honors in the Major. Requirements are as follows:

- Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

- PhD 3000 Philosophy of Religion
- PHI 4400 Philosophy of Science
- PHI 4420 Philosophy of Social Science
- PHI 3461 Philosophy of Psychology
- PHI 3800 Aesthetics

Applications (9 hrs)

Select three courses:

- HUM 4330 Performance Theory
- PHI 3626 Ethics in Science & Technology
- PHI 3022 Sexuality, Gender, & Philosophy
- PHI 3033 Philosophy, Religion, and the Environment
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- PHM 3123 Feminist Theory
- PHIM 4031 Environmental Philosophy
- REL 3XXX Religion, Philosophy and Film

*Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by Departmental advisor.

4. Upper Division Restricted Electives (6 hrs)

Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

5. Honors in the Major

Students considering graduate school in philosophy are strongly encouraged to take Honors in the Major. Requirements are as follows:

- Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

- PhD 3000 Philosophy of Religion
- PHI 4400 Philosophy of Science
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Applications (9 hrs)

Select three courses:

- HUM 4330 Performance Theory
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- REL 3XXX Religion, Philosophy and Film

*Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by Departmental advisor.

4. Upper Division Restricted Electives (6 hrs)

Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

5. Honors in the Major

Students considering graduate school in philosophy are strongly encouraged to take Honors in the Major. Requirements are as follows:

- Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

- PhD 3000 Philosophy of Religion
- PHI 4400 Philosophy of Science
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Applications (9 hrs)

Select three courses:

- HUM 4330 Performance Theory
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- PHM 3123 Feminist Theory
- PHIM 4031 Environmental Philosophy
- REL 3XXX Religion, Philosophy and Film

*Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by Departmental advisor.

4. Upper Division Restricted Electives (6 hrs)

Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

5. Honors in the Major

Students considering graduate school in philosophy are strongly encouraged to take Honors in the Major. Requirements are as follows:

- Select six hours of approved courses in Philosophy or related areas, subject to approval by Departmental advisor.

- PHI 3000 Philosophy of Religion
- PHI 4400 Philosophy of Science
- PHI 4420 Philosophy of Social Science
- PHI 3461 Philosophy of Psychology
- PHI 3800 Aesthetics

Applications (9 hrs)

Select three courses:

- HUM 4330 Performance Theory
- PHI 3626 Ethics in Science & Technology
- PHI 3022 Sexuality, Gender, & Philosophy
- PHI 3033 Philosophy, Religion, and the Environment
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- PHI 4804 Critical Theory
- PHM 3100 Freedom and Justice
- PHM 3123 Feminist Theory
- PHIM 4031 Environmental Philosophy
- REL 3XXX Religion, Philosophy and Film

*Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by Departmental advisor.
### UCF Degree Programs

**B. Humanities (6 hrs)**
- PHI 2010 Introduction to Philosophy
- Select one:
  - ARH 2050 The History of Art I
  - ARH 2051 The History of Art II
  - MUL 2010 Enjoyment of Music
  - THE 2000 Theatre Survey
- FIL 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
  - 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
- BSC 2010C General Biology
- Select one:
  - AST 2002 Astronomy
  - GEO 1200 Physical Geography
  - GLY 1030 Geology and its Applications
  - Red 4043

**F. Education Courses (9 hrs)**
- EDF 2005 Introduction to Education
- EDG 2701 Teaching Diverse Populations
- EME 2040 Technology for Educators

**G. Diversity Courses (GEP)**
- Select one:
  - ETE 1000 World Cultures
  - ECO 1000 Ethical Issues

**H. Other Program Prerequisites (7 hrs)**
- Select one:
  - PET 2622CC Human Injuries (3 hrs)
  - PET 3765 Coaching Theory (3 hrs)
  - PET 4550 Fitness Assessment and Exercise (3 hrs)

### 3. Education Core Requirements (15 hrs)
- EDG 4323 Professional Teaching Practices
- EDF 4903 Analysis of Critical Issues in Education
- EDF 4114 Classroom Learning Principles
- TSL 4080 Thry & Prac Teaching ESOL Students in Schools
- RED 4043 Content Reading K-12

### 4. Specialization Requirements (30 hrs)
**Physical Education (K-8)**
- DAE 3370 Dance & Rhythms
- PEO 3041 Games in the Elementary School (3 hrs)
- PEP 3205 Gymnastics
- PET 2622CC Human Injuries
- PET 4050C Motor Development & Learning
- PET 4312 Biomechanics
- PET 4351 Applied Exercise
- PET 4601 Administration and Evaluation in PE
- PET 4640 Adapted PE
- PET 4823 Teaching Sports Skills

**5. Internship I and Methods (6 hrs)**
- PET 3755 Coaching Theory
- PET 4950 Internship I
- PET 4710 Teaching Physical Education K-12
- EDG 4323 must be completed before registering for Internship I
- Junior/senior standing required. Normally taken during next to last full time semester
- See additional requirements in College of Education, Office of Clinical Experiences

**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
- 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 the State Board of Education Rule 6A-5.065

**Note:** Internship II includes a 3 SH module on assessment

### 7. Optional Certification and Endorsement (6-12 hrs)
- Select one of the following courses:
  - PET 3765 Coaching Theory
  - PET 4550 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 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:** 125 hours

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**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.

**Admission Requirements**
- **none**

**Degree Requirements**
- Students who change degree programs and select this major must adopt the most current catalog.
- Grades below "C" (2.0) in any required physics or mathematics courses are not acceptable; they must be repeated with a higher grade.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Physics
- Courses designated in 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.)

<table>
<thead>
<tr>
<th>A. Communication Foundations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select ENC 1101 English Composition I (3 hrs)</td>
</tr>
<tr>
<td>Select ENC 1102 English Composition II (3 hrs)</td>
</tr>
<tr>
<td>Prefer SPC 1016 Oral Comm for Tech Prof (3 hrs)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>B. Cultural and Historical Foundations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select MAC 2281 Calculus for Sci &amp; Eng I (4 hrs)</td>
</tr>
<tr>
<td>Select COP 3223 Computer Programming (3 hrs)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>D. Social Foundations</th>
</tr>
</thead>
<tbody>
<tr>
<td>Select PHY 2048 &amp; L Physics for Sci &amp; Eng I (PR/MAC 2381) (4 hrs)</td>
</tr>
</tbody>
</table>

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**UNIVERSITY OF CENTRAL FLORIDA**

2003-2004 Undergraduate Catalog
2. Common Program Prerequisites (20 hrs)

CHM 2045C* Chem Fund I 4 hrs
CHM 2046 & 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 GEP 4 hrs
MAC 2283 Calculus for Sci & Eng III GEP 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 2202 Differential Equations 3 hrs
PHY 2049 & L Physics Engr & Sci I & Lab 4 hrs
PHZ 3113 Intro to Theoretical Methods of Physics 3 hrs
PHY 2221 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
PHY 3722C Physics Laboratory: Electronics

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
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 (18 hrs)

Choose one lab from:
PHY 4803L Advanced Physics Lab 3 hrs
EEL 5353C 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 Optical Optics 3 hrs
Choose six hours from:
EEL 4440 Optical Engineering 3 hrs
PHY 4445 Lasers 3 hrs
OCE 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 1001C Computer Science I 3 hrs
COP 3530C Computer Science II 3 hrs
COP 4500 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 3222C 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 (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: 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

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)
   - Communication Foundations 9 hrs
   - Cultural and Historical Foundations 3 hrs
UCF Degree Programs

GROUP 1.

C. Mathematical Foundations 6 hrs
Select from GE list 3 hrs
Select MGF 1106 Finite Mathematics
(may substitute a higher level math)
Select STA 2014C Principles of Statistics or
STA 106C Statistics Using Excel
D. Science Foundations
Select STS 201 3 hrs
Select one of the three choices
Select one of the three choices
E. Science Foundations
Choose one of the following emphases
Emphasis 1: American Politics and Policy
Emphasis 2: International Relations-Comparative Politics
Emphasis 3: Prelaw

GROUP 2.

2. Common Program Prerequisites (3 hrs)
POS 2041* American National Government
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
Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

Credits: 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 3003 Environmental Politics
PUP 3314 Minorities in American Politics
PUP 4003 American Public Policy
PUP 4204 Sustainability
PUP 4323 Women and Public Policy
PUP 4XXX GIS for Political Science
PUP 4404 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

Credits: 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 Contemporary 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 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 4331 Utopia/Dystopia
POT 4414 Marxist Political Theory
POT 4632 Religion and Politics

Credits: POT 3004 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 4331 Utopia/Dystopia
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
## UCF Degree Programs

### 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 | 3 hrs |
| Prefer AMH 2010 US History: 1492-1877 and 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 1060C 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 (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 4003 International Relations Theory 3 hrs

### 4. Restricted Electives (18 hrs)

**Note:** Students must meet all prerequisites before taking these classes.

<table>
<thead>
<tr>
<th>Functional</th>
<th>9 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPO 3034 Politics of Developing Areas</td>
<td></td>
</tr>
<tr>
<td>CPO 3103 Comparative Politics</td>
<td></td>
</tr>
<tr>
<td>CPO 3104 Politics of Western Europe</td>
<td></td>
</tr>
<tr>
<td>CPO 3403 Politics of the Middle East</td>
<td></td>
</tr>
<tr>
<td>CPO 3614 Politics of Eastern Europe</td>
<td></td>
</tr>
<tr>
<td>CPO 4062 Comparative Judicial Process</td>
<td></td>
</tr>
<tr>
<td>CPO 4074 Political Economy</td>
<td></td>
</tr>
<tr>
<td>CPO 4123 Government and Politics of Great Britain</td>
<td></td>
</tr>
<tr>
<td>CPO 4303 Comparative Latin American Politics</td>
<td></td>
</tr>
<tr>
<td>CPO 4643 Government and Politics of Russia</td>
<td></td>
</tr>
<tr>
<td>CPO 4710 Women in Comparative Politics</td>
<td></td>
</tr>
<tr>
<td>CPO 5334 Contemporary Politics of the Mayan Region</td>
<td></td>
</tr>
<tr>
<td>POS 3253 Contemporary Revolution and Political Violence</td>
<td></td>
</tr>
</tbody>
</table>

**Regional**

- 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**

- 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

### Required Minor (18 hrs minimum)

- INR 4714 Politics of International Trade Policy
- INR 4603 International Relations Theory
- 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 Control
- INR 4224 Contemporary International Politics of Asia
- INR 4224 International Politics of Latin America
- INR 4335 Coercion in International Politics
- INR 4351 International Environmental Law
- INR 4401 International Law I
- INR 4402 International Law II
- INR 4404 Space Law
- INR 4502 International Organizations
- INR 4941 Internship (a maximum of 3 hours)
- PUP 4510 Space Policy

Other courses may be substituted with the chair’s approval.

### 5. Required Minor (18 hrs minimum)

Select from the following: Asian Studies, French, 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 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 - 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 opportunities 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

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 (7 hrs)
   - C. Mathematical Foundations (6 hrs)
   - Select GEP list (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 (3 hrs)
   - POS 3703* Scope and Methods of Political Science (3 hrs)

*See 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: (3 hrs)
     - POS 4603 American Constitutional Law I
     - POS 4604 American Constitutional Law II
     - INR 4401 International Law I
     - INR 4402 International Law II
   - Select one (See listing under Political Science) (15 hrs)
     - Five courses from area A and
     - Two courses from area B
     - or
     - Two courses from area A and
     - Five courses from area B
     - 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 3820,3321 Business Law I & II
     - PLA 3104 Legal Research
     - PLA 3155 Legal Writing
     - PHI 2101 Critical Thinking
     - PHI 2100 Formal Logic I
     - MTH 3302 Logic and Proof in Mathematics
     - ENC 311 History of the English Language
     - LIN 4100 Interpersonal Communication
   - 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 courses 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

Psychology Advising Center: PH 305G 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

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 courses counted toward the major must be taken from the UCF Psychology Department.
- Students must earn at least a “C” (2.0) in each Psychology course.
- 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 courses 3 hrs
      - Select PSY 2012 General Psychology 3 hrs
   E. Science Foundations
      - Select one of the listed courses 3 hrs
      - Select the listed one of the listed choices 3 hrs
      - *See Transfer Notes for possible substitutions

2. Common Program Prerequisites (3 hrs)
   - BSC 1005*: any lower level BSC course or ZOO X010.
   - PSY 2012*: any PSY course. However, PSY 2012 is a prerequisite for 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.

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 3772 Sexual Behavior
     - SOP 3784 Psychology of Diversity
   - B. General Diversity courses
     - Select from 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, 3313, 3332, 3363, 3541, 3640; ARH 3520, 4458; ASH 4404, 4442; CCS 4670; CLA 3851; COM 4014, 4461; CPO 3403; EUH 4576; FIL 3309; GEO 3470; GYJ 3001; HSC 4564; HUM 3350, 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; SYR 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

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 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,
### 1. UCF General Education Program (37 hrs)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Details</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>3 hrs</td>
</tr>
<tr>
<td>Select STA 2023 Statistical Methods I* or STA 2014C Principles of Statistics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

*See Transfer Notes for possible substitutions

### 2. Common Program Prerequisites (3 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 2010C* General Biology</td>
<td>GEP</td>
</tr>
<tr>
<td>BSC 1005 (If no additional Biology courses are planned)</td>
<td>Select BSC 2010C General Biology</td>
</tr>
<tr>
<td>PSY 2012* General Psychology</td>
<td>GEP</td>
</tr>
<tr>
<td>STA 4164 Statistical Methods III</td>
<td>Select STA 2023 Statistical Methods I*</td>
</tr>
</tbody>
</table>

*See Transfer Notes for possible substitutions

### 3. Core requirements (14 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>EXP 3404 Basic Learning Processes</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PSB 3002 Physiological Psychology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PSY 3214C Research Methods</td>
<td>4 hrs</td>
</tr>
<tr>
<td>PSY 4215C Advanced Research Methods</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

### 4. Restricted Electives (12 hrs)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Select two of the following:</td>
<td>6 hrs</td>
</tr>
<tr>
<td>DEP 2004 Developmental Psychology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PPE 3003 Personality Theory</td>
<td></td>
</tr>
<tr>
<td>SOP 3004 Social Psychology</td>
<td></td>
</tr>
<tr>
<td>B. Psychology electives: select six additional upper division hours in psychology</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

### 5. Diversity courses (6 hrs)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Psychology Diversity courses</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOP 3723 Cross Cultural Psychology</td>
<td></td>
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<tr>
<td>SOP 3724 Psych of Racial Prejudice</td>
<td></td>
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<tr>
<td>SOP 3742 Psych of Women</td>
<td></td>
</tr>
<tr>
<td>SOP 3772 Sexual Behavior</td>
<td></td>
</tr>
<tr>
<td>SOP 3784 Psychology of Diversity</td>
<td></td>
</tr>
<tr>
<td>B. General Diversity courses</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Select from courses outside the Psychology department that focus on gender, class, or minority issues.</td>
<td></td>
</tr>
</tbody>
</table>

### 6. Science Electives (12 hrs)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Course Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Select at least six credits outside Psychology from: (See course listing for prerequisites)</td>
<td>6 hrs</td>
</tr>
<tr>
<td>COP 3502C Computer Science I</td>
<td></td>
</tr>
<tr>
<td>COP 3503C Computer Science II</td>
<td></td>
</tr>
<tr>
<td>ENC 3241 Technical Writing</td>
<td></td>
</tr>
<tr>
<td>MAC 2233 Concepts of Calculus</td>
<td></td>
</tr>
<tr>
<td>MAC 2253 Applied Calculus I</td>
<td></td>
</tr>
<tr>
<td>MAC 2254 Applied Calculus II</td>
<td></td>
</tr>
<tr>
<td>PCB 3063 &amp; L Genetics with lab</td>
<td></td>
</tr>
<tr>
<td>PCB 3703C Human Physiology</td>
<td></td>
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<tr>
<td>STA 4102 Computer Process of Stat Data</td>
<td></td>
</tr>
<tr>
<td>STA 4163 Statistical Methods II</td>
<td></td>
</tr>
<tr>
<td>STA 4164 Statistical Methods III</td>
<td></td>
</tr>
<tr>
<td>ZOO 3733C Human Anatomy</td>
<td></td>
</tr>
<tr>
<td>B. Select at least two of the following:</td>
<td>5-8 hrs</td>
</tr>
<tr>
<td>EXP 3204C Perception</td>
<td></td>
</tr>
<tr>
<td>EXP 3513 Cognitive Psychology</td>
<td></td>
</tr>
<tr>
<td>EXP 4507C Advanced Human Memory and Cognition</td>
<td></td>
</tr>
<tr>
<td>PSB 4013C Neuropsychology</td>
<td></td>
</tr>
</tbody>
</table>

### 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
- STA 2023 or STA 2014C: or any lower level STA course
- 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: or 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.

**8000 Undergraduate Catalog**
Students who complete a recognized UCF Double Majors Public Administration electives are required as follows:

4. Upper Division Restricted Electives (39 hrs)
- **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 Prerequisites 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
RADIO-TELEVISION (B.A.)
College of Arts and Sciences
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.
- 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 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
   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 CGS 1060C Intro. to Computer Science  3 hrs
D. Social Foundations
   6 hrs
E. Science Foundations
   6 hrs

2. Common Program Prerequisites
   SPC 1600 Fund Oral Communication  GEP

3. Core requirements (all areas) (21 hrs)
   Select one of the following:  3 hrs
   CGS 2100C Computer Fundamentals of Business
   CGS 2585C Desktop/Internet Publishing
   CGS 3175 Internet Applications
   RTV 2102 Writing for the Electronic Media
   RTV 3200 Broadcast Techniques
   RTV 3000 Foundations of Broadcasting

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
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.
- 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 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
   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 CGS 1060C Intro. to Computer Science  3 hrs
D. Social Foundations
   6 hrs
E. Science Foundations
   6 hrs

2. Common Program Prerequisites
   SPC 1600 Fund Oral Communication  GEP

3. Core requirements (all areas) (21 hrs)
   Select one of the following:  3 hrs
   CGS 2100C Computer Fundamentals of Business
   CGS 2585C Desktop/Internet Publishing
   CGS 3175 Internet Applications
   RTV 2102 Writing for the Electronic Media
   RTV 3200 Broadcast Techniques
   RTV 3000 Foundations of Broadcasting

4. Specialization: select one area
   Production
   RTV 3210C Audio Production I  4 hrs
   RTV 3228C Studio Television Production  4 hrs
   RTV 3223C Lighting for Video  3 hrs
   RTV 3260C Single-Camera Video Production  4 hrs
   RTV 3263C Advanced Video Post-Production  3 hrs
   RTV 3268C Production of Int. Multimedia  3 hrs
   RTV 3942L Practicum  1-3 hrs
   RTV 4211C Audio Production II  3 hrs
   RTV 4280C Webcasting I  3 hrs
   RTV 4281C Webcasting II  3 hrs
   RTV 4206C Television Directing  4 hrs
   RTV 4270C Radio Production & Programming  3 hrs
   RTV 4941 Internship  1-3 hrs

   Broadcast Journalism
   RTV 3260C Single-Camera Video Production  4 hrs
   RTV 3301 Electronic Journalism I  3 hrs
   RTV 3304 Electronic Journalism II  3 hrs
   RTV 4320C Television News  3 hrs
   MMC 4602 Contemporary Media Issues  3 hrs
   JOU 3004 History of American Journalism  3 hrs

   Broadcast Generalist
   Select 12 hours from Group A:
   RTV 3231C Broadcast Announcing & Performance  4 hrs
   RTV 4270C Radio Production & Programming  3 hrs
   RTV 4700 Broadcast Regulations  3 hrs
   RTV 4800 Broadcast Management  3 hrs
   ADV 3103 Radio-TV Advertising  3 hrs
   CMC 4240 Corporate/Institutional Video  3 hrs
   COM 3330 Computer-Mediated Comm.  3 hrs
   MMC 4263 New Media Technologies  3 hrs
   MMC 4608 Broadcast Management  3 hrs

   Select 6 hours from Group B:
   ADV 3000 Principles of Advertising  3 hrs
   PUR 4000 Public Relations  3 hrs
   COM 3110 Business & Prof. Comm.  3 hrs
   ENC 2210 Writing for Business Professionals  3 hrs

5. Required Minor (18 hrs minimum)
   Radio-Television majors must complete an 18 hour minor in an academic area outside the School of Communication.

6. School Exit Requirements
   - To avoid delaying graduation, you must request a review of requirements before registering for your last term
   - Achieve an overall “C” GPA (2.0) in required UCF Radio/TV 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: Advertising/Public Relations, Animation, Digital Media, Journalism, Film, Theatre
Related Minors: Digital Media, Film, Marketing, Theatre
Admission Requirements

Undergraduate Program Director: Thomas Edwards
E-mail: tedwards@mail.ucf.edu

RADIOLOGIC SCIENCES (B.S.)

College of Health and Public Affairs
HPA2 210, 407-823-2747
http://www.cohpa.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

A. Communication Foundations
   - Select MAC 1105
   - Select CGS 1080C
B. Cultural Historical Foundations
   - Select MAC 1105
   - Select CGS 1080C
C. Mathematical Foundations
   - Select MAC 1105
   - Select CGS 1080C
D. Social Foundations
   - Select SBC 2010C
E. Science Foundations
   - Select PHY 2035C

2. Common Program Prerequisites

   CGS 1060C Introduction to Computer Science
   PCB 3703C 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

   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

4. Upper Division Restricted Electives:

   RTE 4209 Radiological Adm. Practice  2 hrs
   RTE 4903 Directed Study Radiologic Education  2 hrs

5. Program Exit Requirements

   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 (URCERT). Graduates are eligible to apply for admission to the radiography certification exam administered by the American Registry of Radiologic Technologists (ARRT).

6. Electives

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

   - 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-
# UCF Degree Programs

To 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
- CollegePhysics 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

**RADIOLOGIC SCIENCES (B.S.)**

<table>
<thead>
<tr>
<th>Course Requirement</th>
<th>Fall</th>
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**Senior Year**

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<td>RTE 4573</td>
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<td>RTE 4854**</td>
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**Note:** Completed during the Spring or Summer semester/term.

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**RADIOLOGIC SCIENCES (B.S.)**

**AS to BS TRACK**

**Note:** For detailed information about this program, see description in the AS to BS Program section.

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**RESTAURANT AND FOODSERVICE MANAGEMENT (B.S.)**

**Restaurant School of Hospitality Management Classroom Building I, Suite 302 (407) 823-2188 http://www.hospitality.ucf.edu**

**Dean:** Abraham Pizam

### Degree Requirements

1. **UCF General Education Program (GEP)** (36 hrs)
   - A. Communications Foundations 9 hrs
   - B. Cultural and Historical Foundations 9 hrs
   - C. Mathematical Foundations 9 hrs
   - D. Social Foundations 9 hrs
   - E. Science Foundation 6 hrs

2. **Common Program Prerequisites** (6 hrs)
   - HFT 1000 Introduction to Hospitality Management 3 hrs
   - FSS 2221C Quantity Food Preparation 3 hrs

3. **Management Tools** (25 hrs)
   - HFT 2403 Hospitality Financial Accounting 3 hrs
   - HFT 2500 Hospitality Marketing 3 hrs
   - HFT 2200 Hospitality Human Resources 3 hrs
   - HFT 2444 Hospitality Information Systems 3 hrs
   - HFT 3933 Distinguished Lectures in Hospitality Management 1 hr
   - HFT 3900 Legal Environment in Hospitality 3 hrs
   - HFT 3431 Hospitality Managerial Accounting 3 hrs
   - HFT 3540 Guest Services Management 3 hrs
   - HFT 3261 Restaurant Management 3 hrs

4. **Internship** (3 hours)
   - HFT 3941 Practicum I 1 hr
   - HFT XXXX Practicum II 1 hr
   - HFT 4941 Practicum III 1 hr

5. **Restaurant Management Core** (18 hours)
   - HFT 4268 Case Studies in Restaurant Management 3 hrs
   - HFT 4343 Hospitality Facilities, Planning and Design 3 hrs
   - FSS 3124 Supply and Procurement Management 3 hrs
   - FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
   - HFT 4266 Restaurant Brand Management 3 hrs
   - FSS 4338 Food and Beverage Management in Hospitality Operations 3 hrs

6. **Special School Requirements**
   - Final exams will be given during Exam Week only.
   - Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management classes at UCF.

7. **Restricted Electives** (18 hrs)
   - Choose any courses from the list below for a total of 18 credit hours
     - HUN 3013 Nutrition Concepts and Issues in Foodservice 3 hrs
     - FSS 3222C Intermediate Techniques of Food Production 3 hrs
     - HFT 3807 Multi-Unit Food Service Operations 3 hrs
     - FSS 2286C Catering and Banquet Organization 3 hrs
     - HFT 4645 Restaurant Real Estate, Site Selection and Modeling 3 hrs
     - HFT 4861 Beverage Management 3 hrs
     - HFT 4425 Financial Analysis for Restaurant Managers 3 hrs
     - HFT 4XXX Restaurant Technology and MIS 3 hrs
     - HFT 3574 Foodservice Marketing, Advertising, and Promotion Management 3 hrs
     - HFT 4871 Case Studies in Multi-Unit Restaurant Mgt 3 hrs
     - HFT 3554 Franchising in the Restaurant Industry 3 hrs
     - HFT 4281 Restaurant Leadership Strategies and Tactics 3 hrs
     - HFT 4453 Food, Beverage and Labor Cost Controls 3 hrs
     - FSS 3003 Culture and Cuisine 3 hrs
     - HFT XXXX Law and Restaurant Management 3 hrs
     - HFT XXXX International Restaurant Corporation Management 3 hrs
     - HFT 4XXX The Micro-Economics of Foodservice 3 hrs
     - HFT 4XXX Restaurant Interior and Environmental Design 3 hrs
     - HFT XXXX Issues in Restaurant Performance 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 community 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)
   ENCI 1101 Composition I 3 hrs
   ENCI 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
   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 (31 hrs)
A. Communications (9 hrs)
   ENCI 1101 Composition I
   ENCI 1102 Composition II
   SPC 1600 Fundamentals of Oral Communication
B. Humanities (6 hrs)
   PHI 2010 Introduction to Philosophy
   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
   One of the following (per GEP) 3 hrs
   STA 1060C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics
D. Science (12 hrs)
   AMH 2010 U.S. History 1492-1877
   AMH 2020 U.S. History 1877-Present
   STA 1060C Basic Statistics using MS Excel or
   STA 2014C Principles of Statistics
   POS 2041 American National Government
   PSU 2012 General Psychology
E. Science (9 hrs + lab)
   BSC 2010C General Biology w/Lab 4 hrs
   PSC 1121 Physical Science
   Select one: 3 hrs
   AST 2002 Astronomy or
   GEO 1200 Physical Geography or
   GLY 1030 Geology and its Applications
F. Education Courses (9 hrs)
   EDF 2005 Introduction to Education
   EDC 2701 Teaching Diverse Populations
   EME 2040 Technology for Educators
G. Diversity Courses (3 hrs)
   AST 2002 Astronomy
   GEO 1200 Physical Geography
   GLY 1030 Geology and its Applications
H. Other Program Prerequisites (12 hrs)
   BSC 2011C Biological Diversity
### UCF Degree Programs

**SCIENCE EDUCATION - CHEMISTRY (B.S.)**

**College of Education**

**Department of Teaching and Learning Principles**

**ED building, second floor, 407-823-5791**


Coordinators: 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.

### UCF General Education Program (37 hrs)

A. Communication Foundations (9 hrs)

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<td>ENC 1102</td>
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<tr>
<td>SPC 1600</td>
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B. Cultural-Historical Foundations (9 hrs)

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<th>Course</th>
<th>Hours</th>
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<tr>
<td>PHI 2010</td>
<td>3</td>
</tr>
</tbody>
</table>

C. Mathematical Foundations (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 1060C</td>
<td>3</td>
</tr>
<tr>
<td>STA 2014C</td>
<td>3</td>
</tr>
</tbody>
</table>

D. Social Foundations (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 2041</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2012</td>
<td>3</td>
</tr>
</tbody>
</table>

E. Science Foundations (7 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 2053C</td>
<td>4</td>
</tr>
</tbody>
</table>

Select one:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>AST 2002</td>
<td>3</td>
</tr>
<tr>
<td>GEO 1200</td>
<td>3</td>
</tr>
</tbody>
</table>

F. Earth Sciences (GEP) (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>GLY 1030</td>
<td>4</td>
</tr>
</tbody>
</table>

### Common Program Prerequisites (23 hrs)

A. Communications (9 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>3</td>
</tr>
<tr>
<td>ENC 1102</td>
<td>3</td>
</tr>
<tr>
<td>SPC 1600</td>
<td>3</td>
</tr>
</tbody>
</table>

B. Humanities (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 2010</td>
<td>3</td>
</tr>
<tr>
<td>Select one:</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2050</td>
<td>3</td>
</tr>
<tr>
<td>ARH 2061</td>
<td>3</td>
</tr>
<tr>
<td>MUL 2010</td>
<td>3</td>
</tr>
<tr>
<td>THE 2000</td>
<td>3</td>
</tr>
</tbody>
</table>

Select one:

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIL 1001</td>
<td>3</td>
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</table>

C. Mathematics (9 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 1105</td>
<td>3</td>
</tr>
<tr>
<td>MGF 1106</td>
<td>3</td>
</tr>
</tbody>
</table>

### Departmental Exit Requirements (126 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 residency at UCF

E. 25% of course work must be completed in residency at UCF

F. Education Courses (9 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 2005</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Hours Required: 126
EDG 2701    Teaching Diverse Populations  3 hrs
EME 2040    Technology for Educators  3 hrs
G. Diversity Courses  GEP
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 4320L 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 ESL  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 2010C General Biology  GEP
   CHM 2045C Chemistry Fundamentals I  CPP
   CHM 2046 Chemistry Fundamentals II  3 hrs
   CHM 2046L Chemistry Fundamentals Lab  1 hr
   PHY 2053C College Physics I  GEP
   PHY 2054C College Physics II  4 hrs
   CHM 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 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

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**SCIENCE EDUCATION - PHYSICS (B.S.)**

**College of Education**

Department of Teaching and Learning Principles

**ED Location:** 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. 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)
  MAC 1105 College Algebra  3 hrs
  STA 1060C Basic Statistics using MS Excel  3 hrs
  STA 2014C 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)
  PHY 2048 Physics for Engineers & Scientists I  3 hrs
  PHY 2049 Physics for Engineers & Scientists II  3 hrs
  GEO 1200 Physical Geography or
  GLY 1030 Geology and its Applications

Note: See laboratory component under Section 2.

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**2. Common Program Prerequisites (21 hrs)**

- A. Communications (9 hrs)
  ENC 1101 Composition I  GEP
  ENC 1102 Composition II  GEP
  SPC 1600 Fundamentals of Oral Communication  GEP

- B. Humanities (6 hrs)
  PHI 2010 Introduction to Philosophy  GEP
  Select one:
    ARH 2050 The History of Art I or
    ARH 2051 The History of Art II or
    MUL 2010 Enjoyment of Music or
    THE 2000 Theatre Survey or

- C. Mathematics (10 hrs)
  MAC 1105 College Algebra  GEP
  MAC 2311 Calculus with Analytic Geometry I  4 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 (11 hrs + lab)
  BSC 2010C General Biology w/Lab  4 hrs
  PHY 2048 Physics for Engineers & Scientists I  GEP
  PHY 2048L Physics Lab for Eng. & Scientists I  1 hr
  One of the following (per GEP)  GEP
  AST 2002 Astronomy or
  GEO 1200 Physical Geography or
  GLY 1030 Geology and its Applications

---
At least 50% of all required physics courses must be completed before doing Internship I.

ESE 3940 Internship I 3 hrs

SCE 4360 Science Instructional Analysis 4 hrs

4. Internship I Block (7 hrs)

LAE 4361 Literacy Strategies for Mid/High School 3 hrs

TSL 4080 Theory and Practice of Teaching ESOL 3 hrs

EDF 4603 Analysis of Critical Issues in Education 3 hrs

EDG 4323 Professional Teaching Practices 3 hrs

ESE 4940 Internship 3 hrs

At least 50% of all required physics courses must be completed before doing the first 60 hours.

5. Specialization Requirements (26 hrs)

BSC 2010C General Biology 3 hrs

CHM 2045 Chemistry Fundamentals I 4 hrs

CHM 2046 Chemistry Fundamentals II 3 hrs

CHM 240L Chemistry Fundamentals Lab 1 hr

MAC 2311 Calculus w/Analytic Geometry I 4 hrs

MAC 2312 Calculus w/Analytic Geometry II 4 hrs

MAC 2313 Calculus w/Analytic Geometry III 4 hrs

PHY 2048 Physics for Scientists I 3 hrs

PHY 2048L Physics Lab for Engineers & Scientists I GEP

PHY 2049 Physics for Scientists II 3 hrs

PHY 2049L Physics Lab for Engineers & Scientists II 1 hr

PHY 3101 Physics for Engineers & Scientists III 3 hrs

PHY 3752C Physics of Scientific Instruments 3 hrs

6. Restricted Electives (8 hrs)

3000- or 4000-level PHV or PHZ courses with advisor’s approval

7. Internship II (ESE 4943) (12 hrs)

SCE 4360 Science Instructional Analysis 4 hrs

LAU 4361 Literacy Strategies for Mid/High School 3 hrs

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 at the pre-professional level in accordance with State Board of Education LAU-6.065

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)

Total Semester Hours Required 125 hours
### 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

**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

<table>
<thead>
<tr>
<th>1. UCF General Education Program</th>
<th>(36 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Communication Foundations</strong></td>
<td></td>
</tr>
<tr>
<td>ENC 1101 Composition I</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

| ENC 1102 Composition II          | 3 hrs   |
| SPC 1600 Fundamentals of Oral Communication | 3 hrs |
| **B. Cultural-Historical Foundations**  | (9 hrs) |
| AMH 1101 U.S. History 1492-1877 | 3 hrs |
| AMH 2020 U.S. History 1877-Present | 3 hrs |
| PHI 1010 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 | 3 hrs |
| STA 2014C Principles of Statistics | 3 hrs |

| **D. Social Science/History**  | (12 hrs) |
| AMH 1101 U.S. History 1492-1877 | 3 hrs |
| AMH 2020 U.S. History 1877-Present | 3 hrs |
| POS 2041 American National Government | 3 hrs |
| PSY 1201 General Psychology | 3 hrs |

| **E. Science**  | (9 hrs + lab) |
| PSC 1121L Physical Science | 3 hrs |
| One of the following (per GEP) |
| STA 1060C Basic Statistics using MS Excel | 3 hrs |
| STA 2014C Principles of Statistics | 3 hrs |

| **F. Education Courses**  | (9 hrs) |
| EDF 2005 Introduction to Education | 3 hrs |
| EDF 2701 Teaching Diverse Populations | 3 hrs |
| EME 2040 Technology for Educators | 3 hrs |

| **G. Diversity Courses**  | (6 hrs) |
| SYG 2000 General Sociology | 3 hrs |
| ECO 2013 Macroeconomics | 3 hrs |

| **3. Education Core Requirements**  | (15 hrs) |
| EDF 4213 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) |
| 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)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
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<tr>
<td>EHU 2000 Western Civilization I</td>
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</tr>
<tr>
<td>EHU 2001 Western Civilization II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>AMH 2010 US History 1492-1877</td>
<td>CEP</td>
</tr>
<tr>
<td>AMH 2020 US History 1877-Present</td>
<td>GEP</td>
</tr>
<tr>
<td>SYG 2000 General Sociology</td>
<td>CPP</td>
</tr>
<tr>
<td>ECO 2013 Macroeconomics</td>
<td>CPP</td>
</tr>
<tr>
<td>ECO 2023 Microeconomics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>GED 3470 World Political Geography</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Upper Division Non-Western History Elective; LAH, AH, or ASH prefix courses</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

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

SCHOOL WORK (B.S.W.)

College of Health and Public Affairs
HPA 1 204, 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)

<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 MGF 1105 Finite Math</td>
<td></td>
</tr>
<tr>
<td>Select STA 2014C-Principles of Statistics or STA 2023 Statistical Methods I</td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select PSY 2012 and POS 2041</td>
<td></td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select BSC 1005</td>
<td></td>
</tr>
<tr>
<td>Select a listed science course</td>
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</tr>
</tbody>
</table>

2. Common Program Prerequisites* (15 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 MGF 1105 Finite Math</td>
<td></td>
</tr>
<tr>
<td>Select STA 2014C-Principles of Statistics or STA 2023 Statistical Methods I</td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select PSY 2012 and POS 2041</td>
<td></td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select BSC 1005</td>
<td></td>
</tr>
<tr>
<td>Select a listed science course</td>
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</table>

*See transfer notes

3. Core Requirements (45 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>SOW 1104 Assessing I: Human Development</td>
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</tr>
<tr>
<td>SOW 3203 Social Welfare and Community Resources</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOW 3300 Practice I: Generalist Practice in Social Work</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOW 3111 Assessing II: Human Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOW 3352 Practice II: Interpersonal Skills in Social Work Practice</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOW 3401 Social Work Research</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOW 3420 Social Work with Minorities</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOW 4431 Evaluating Social Work Practice and Service Programs</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOW 4232 Social Welfare Policies and Issues</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOW 4341 Micro-level Roles and Interventions in Social Work</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOW 4343 Macro-level Roles and Interventions in Social Work</td>
<td>3 hrs</td>
</tr>
<tr>
<td>SOW 4510 Field Education</td>
<td>9 hrs</td>
</tr>
<tr>
<td>SOW 4522 Field Education Seminar</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

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, JST 3820, LAH 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 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: 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, excercise 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 program will enable students to earn credit toward work through courses in social work skills in the area of addictions.

Elective (if necessary) 3
Elective 3
SOW 4341 3 SOW 4522 3
SOW 4232 3 SOW 4510 9

Fall 15/16 hrs Spring 12/13 hrs
ECC 2013 or ECC 2023 3 Foreign Lang II or FIE 3/4
EUH 2000 or WOH 2012 or ENG 3151 3 Cult Diversity or HUM 2211 or AMH 1010 3
SPC 1600 3 Elective 3
SOW Elective 3

Summer 6 hrs
Elective 3
Elective 3

Junior Year
Fall 15 hrs Spring 15 hrs
SOW 3104 3 SOW 3111 3
SOW 3203 3 SOW 3352 3
SOW Elective 3 SOW Elective 3
STA 201C 3 Elective 3

Senior Year
Fall 15/18 hrs Spring 13 hrs
SOW 4232 3 SOW 4510 9
SOW 4341 3 SOW 4522 3
SOW 4343 3 Elective 1
SOW 4431 3
Elective 3
Elective (if necessary) 3

SOCIOLGY (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: 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.

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 sophomore year.

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

Honors in the Major Requirements
1. Complete a three-credit directed reading course/or a three-credit COHPA Interdisciplinary Honor course.
2. Complete a three-credit thesis course.
3. Earn a 3.5 GPA in your Social Work major.
4. Earn a cumulative 3.2 GPA in your total UCF courses.
5. Complete 60 hours of college credit, including 12 upper division hours at UCF.

Transfer Notes:
Community College Equivalent courses for prerequisites: any course in the following areas (3 hrs each)
American Government or American National Government Biology (Human Biology or Anatomy and Physiology)
Economics (Microeconomics or Macroeconomics)
Select one: ECO 2013, ECO 2023, POS 2041 3 hrs
Select SYG 2000 General Sociology 3 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites  none
(It is suggested that transfer students complete two lower-level courses with the prefix SYA, SYD, SYG, SYO, or SYP.)

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
SYA 3120 Modern Sociological Thought
Select one course 3 hrs
SYO 3530 Social Stratification
SYO 4000 Sociological Social Psychology

4. Restricted Electives (24 hrs)
Select eight courses from the following
SYA 4650C Applied Sociology
SYA 5625 Proseminar
SYA 5937 Advanced Population
SYD 3410 Urban Sociology
SYD 3700 Race & Ethnic Minorities in the US
SYD 3800 Sex Roles in Modern Society
SYD 4020 Population
SYG 2010 Social Problems
SYO 3000 Modern Sociology
SYO 3360 Social Organization & Human Relations
SYO 3410 Sociology of Mental Illness
SYO 3530 Social Stratification
SYO 4100 Family Trends
SYO 4200 Sociology of Religion
SYO 4250 Sociology of Education
SYO 4300 Political Sociology
SYO 4400 Medical Sociology
SYO 3300 Collective Behavior
SYP 3400 Social Change
SYP 3510 Sociology of Deviant Behavior
SYP 3511 Sociology of Murder
SYP 3520 Criminology
SYP 3530 Juvenile Delinquency
SYP 3540 Sociology of Law
SYP 3551 Sociology of Alcoholism
SYP 3602 Sociology of Popular Music
SYP 3630 Sociology of Popular Culture
SYP 3650 Sociology and Sport
SYP 4000 Sociological Social Psychology
SYP 4004 Constructing Social Issues
SYP 4323 Social Systems and Diversity
SYD 4510 Environmental Sociology
SYD 4514 Sociology of Violence
SYD 4521 Criminal Victimization in Society
SYD 4536 Gangs and Society
SYD 4550 Sociology of Drug Abuse
SYD 4730 Sociology of Aging
SYD 4734 Minority Aging
SYD 4810 Women in Contemporary Society
SYP 5526 Sociological Criminology
SYP 5562 Seminar on Domestic Violence

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
2. Common Program Prerequisites (0-14 hrs)

SPN 1120* Elemen Spanish & Civ I 4 hrs
SPN 1121* Elemen Spanish & Civ II 4 hrs
SPN 2230* Intern Spanish Lang & Civ I 3 hrs
SPN 2231* Intern 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 6 hrs or SPW 3130 & 3131 Survey of Latin-American Literature 6 hrs

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

Select three from among the following: 9 hrs

- Spanish literature beyond the survey level (taught in Spanish)
- Culture and Civilization 3 hrs
- SPN 4510 Spanish Civilization & Culture or SPN 4520 Latin American Civilization & Culture 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 1060C or equivalent

6. Foreign Language Requirements (0-16 hrs)

Admission: Met by Graduation requirements.
Graduation: Met by Common Program Prerequisites.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 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 proceed 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
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major.
- Computer Competency met by CGS 1060C or equivalent

B. Cultural and Historical Foundations
- 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.

2. Common Program Prerequisites (7 hrs)

COP 3502C* Computer Science I 3 hrs
MAC 2311 Calculus I 4 hrs
MAC 2312 Calculus II 4 hrs
BSC 2010C General Biology 4 hrs

3. Core requirements (51 hrs)

STA 4321 Statistical Theory I 3 hrs
STA 4322 Statistical Theory II 3 hrs
STA 4222 Sample Survey Methods 3 hrs
STA 4664 Statistical Quality Control 3 hrs

Select one course

-) COP 3100C Introduction to Discrete Structure 3 hrs
-) MGF 1106 Finite Mathematics 3 hrs

*) *may substitute an approved programming language course

Select one course

-) MAS 3105 Linear Algebra 3 hrs
-) MAS 3105 Elementary Linear and Matrix Algebra 3 hrs

Select three from among the following: 9 hrs

-) STA 3096 Statistical Graphics 3 hrs
-) STA 4173 Biostatistical Methods 3 hrs
-) STA 4222 Sample Survey Methods 3 hrs
-) STA 4502 Nonparametric Stat Methods 3 hrs
-) STA 4664 Statistical Quality Control 3 hrs
Select two courses and associated labs (incl. 4 hrs GEP) 4 hrs

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
- Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

4. Restricted Electives

Select one course 3 hrs

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 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, 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: 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.)
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 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: 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 2281

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 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 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 1090 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)
Prefer CGS 1090C Intro to Computer Sci or
CGS 2100C Computer Fund for Business

D. Social Foundations

E. Science Foundations

2. Common Program Prerequisites (12 hrs)

THE 2020* Survey of Theatre for majors
THE 3305* Dramatic Literature I
THE 2960* Theatre Production/Performance I 1 hr
TPP 2290* Theatre Production/Performance I 1 hr
THE 2110* Stagecraft I 3 hrs
TPP 2190* Theatre Production/Performance I 1 hr
TPP 2110* Acting I - Introduction 3 hrs

*See Transfer Notes for possible substitutes

UCF Degree Programs
UCF Degree Programs

3. Core Requirements (18 hrs)
   (all tracks except Musical Theatre)
   TPA 2211 Stagecraft II 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 2 hrs
   TPP 3172C Acting II - 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
   TPP 3512C Stage Combat 2 hrs
   TPP 3257 Music Thea. Voice I 2 hrs
   TPP 3258 Musical Theatre Voice II 2 hrs
   TPP 3711C Voice Production II 2 hrs
   TPP 3712C Voice Production III 2 hrs
   TPP 3730C Voice Production IV 2 hrs
   TPP 4140C Acting IV - Studio 3 hrs
   TPP 4342C Acting IV - Verse 3 hrs
   TPP 4265C Acting for TV/Film 3 hrs
   TPP 4531C Period Movement 2 hrs
   TPP 4940 Theatre Performance Internship 6 hrs
   TPA 2248C Makeup Techniques 2 hrs
   TPA 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 4602 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
   TPA 3060 Scene Design I 3 hrs
   TPA 3216C Stagecraft III 3 hrs
   TPA 3221 Lighting Design 3 hrs
   TPA 3230 Costume Construction 3 hrs
   TPA 3197 Summer Theatre Tech 3 hrs
   TPA 4940 Design/Techn. Internship 6 hrs
   TPP 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
   TPA 3040 Costume Design 3 hrs
   TPA 3043C Costume History I 3 hrs
   TPA 3043C Costume History II 3 hrs
   TPA 3060 Scene Design I 3 hrs
   TPA 3061 Scene Design II 3 hrs
   TPA 3077 Scene Painting 2 hrs
   TPA 3216C Stagecraft III 3 hrs
   TPA 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
   TPA 3250 Cadd for Theatre 2 hrs
   TPA 3251 Advanced CADD for Theatre 2 hrs
   TPA 4234 Thea. Prod./Perf. IV 1 hr
   TPA 3260 Sound Design for Theatre 3 hrs
   TPP 4940 Technical Theatre/Design Internship 6 hrs
   TPP 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 3230 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/Tech/Design 3 hrs
   TPA 3195 Theatre Studio/Tech/Design 3 hrs
   TPA 3601 Stage Management 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 resi-
     dency 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 2925: may use THE 2925
- TPA 2290: may use TPA 1290
- TPA 210: may use TPP 1190
- TPP 2110: may use TPA 2210 or THE 2271
- TPA 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

Umbrella, 407-823-3020
The Bachelor of Fine Arts Track in Musical Theatre has been de-
veloped to serve those students interested in a career in the entertain-
ment industry and the musical theatre stage. It is offered for students
who, upon graduation, plan to pursue a specialized career in profes-
sional 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 stu-
dents to receive advanced studies in acting, musical theatre voice,
and dance.

Work within the B.F.A. program requires energy and dedication; there-
fore, other part-time study or outside employment is generally impos-
sible. BFA standards are high, both for admission and for continua-
tion in the program. Casting, crew, and design assignments are reg-
ulated to serve the artistic growth of students coordinating production
experience with classroom exploration.
**UCF Degree Programs**

### 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 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 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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select SPC 1600 Fund Oral Communication</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>Select two semesters of English Composition</td>
<td>6 hrs</td>
<td></td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select one 2 semester sequence</td>
<td>6 hrs</td>
<td></td>
</tr>
<tr>
<td>Select THE 2000 Survey of Theatre</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Select MGF 1106 Finite Mathematics (may substitute a higher level math)</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>Select CGS 1060C Intro to Computer Sci or CGS 2100C Computer Fund for Business</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
<td></td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
<td></td>
</tr>
</tbody>
</table>

### 2. Common Program Prerequisites (12 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>THE 2020*</td>
<td>Survey of Theatre for majors</td>
<td>GEP</td>
</tr>
<tr>
<td>THE 3305*</td>
<td>Survey of Dramatic Literature</td>
<td>3 hrs</td>
</tr>
<tr>
<td>THE 2090*</td>
<td>Theatre Production/Performance I</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPA 2290*</td>
<td>Theatre Production/Performance I</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPA 2210*</td>
<td>Stagecraft I</td>
<td></td>
</tr>
<tr>
<td>TPP 2190*</td>
<td>Theatre Production/Performance I</td>
<td>1 hr</td>
</tr>
<tr>
<td>TPP 2210*</td>
<td>Acting I - Introduction</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>
- *See Transfer Notes for possible substitutes

### 3. Specialization: Lower Division (24 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MUT 1004</td>
<td>Music Fundamentals I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>MUT 1002</td>
<td>Music Fundamentals II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 2170C</td>
<td>Acting II - Fundamentals</td>
<td>3 hrs</td>
</tr>
<tr>
<td>DAA 2200C</td>
<td>Ballet I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>DAA 2201C</td>
<td>Ballet II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>DAA 2570C</td>
<td>Theatre Jazz Dance I</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### 4. Specialization: Upper Division (54 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>TPP 3172C</td>
<td>Acting III - Characterization</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 3590</td>
<td>Musical Theatre Acting Perf I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 3525</td>
<td>Musical Theatre Acting Perf II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 4253</td>
<td>Musical Theatre Acting Perf III</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 3241</td>
<td>Survey of Musical Theatre I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 4242</td>
<td>Survey of Musical Theatre II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 3223</td>
<td>Theatre Careers</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 4531C</td>
<td>Period Movement</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPP 3512C</td>
<td>Stage Combat</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPP 4255</td>
<td>Musical Theatre Cabaret</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 2248C</td>
<td>Make-up Techniques</td>
<td>2 hrs</td>
</tr>
<tr>
<td>THE 3110</td>
<td>Theatre History I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 3310C</td>
<td>Directing I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 4193</td>
<td>Theatre Production/Performance IV</td>
<td>1 hrs</td>
</tr>
<tr>
<td>TPP 4194</td>
<td>Theatre Production/Performance V</td>
<td>1 hrs</td>
</tr>
<tr>
<td>TPP 4195</td>
<td>Theatre Production/Performance VI</td>
<td>1 hrs</td>
</tr>
<tr>
<td>TPP 3257</td>
<td>Musical Theatre Voice I</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPP 3258</td>
<td>Musical Theatre Voice II</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPP 4XXX</td>
<td>Musical Theatre Voice III</td>
<td>2 hrs</td>
</tr>
<tr>
<td>TPP 4XXX</td>
<td>Musical Theatre Voice IV</td>
<td>3 hrs</td>
</tr>
<tr>
<td>TPP 4940</td>
<td>Internship</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

### 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

### 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**: 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 TPP 1190
- TPP 2210: may use TPP 2210 or THE 2271
- TPP 2210: may use THE 2261

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**Exceptions must be approved by the Department Chair.**
VOCATIONAL EDUCATION AND 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 3 hrs
      ENC 1102 Composition II 3 hrs
      EME 2040 Technology for Educators 3 hrs
   B. Cultural-Historical Foundations (9 hrs)
      ARH 2050 The History of Art I 3 hrs
      ARH 2051 The History of Art II 3 hrs
   C. Mathematical Foundations (6 hrs)
      MAC 1105 College Algebra 3 hrs
      MGF 1106 Finite Mathematics 3 hrs
      Select one: 3 hrs
      STA 2014C Principles of Statistics or STA 204C 3 hrs
   D. Social Foundations (6 hrs)
      STA 1060C Principles of Statistics 3 hrs
      STA 204C Principles of Statistics 3 hrs
   E. Science Foundations (6 hrs)
      MAC 1105 College Algebra 3 hrs
      MGF 1106 Finite Mathematics 3 hrs
      Select one: 3 hrs
      STA 1060C Principles of Statistics or STA 204C 3 hrs
      STA 204C Principles of Statistics 3 hrs

2. Common Program Prerequisites (9 hrs)
   EDF 2005 Introduction to Education 3 hrs
   EDF 2703 Teaching Diverse Populations 3 hrs
   EME 2040 Technology for Educators 3 hrs

3. Program Core Requirements (27 hours)
   EVT 3385 Gen Method/Test Eval 3 hrs
   EVT 3062 Professional Role Voc Ed Teacher 3 hrs
   EVT 3312 Course Const Health Occ Ed 3 hrs
   EVT 3371 Course Const Industrial Ed 3 hrs
   EVT 3502 Special Needs Voc Ed Students 3 hrs
   EVT 4065 Prac/Prac Voc Ed 3 hrs
   EVT 4368 Adv Teaching/Techniques in Voc Ed 3 hrs
   EVT 3367 Eval Vocation Training 3 hrs
   EVT 4169 Curr Dev of Ind Training 3 hrs
   ADE 4392 Teach Adult Learners 3 hrs

4. Occupational Specialization Requirements (30 hrs)
   Students must complete an area of specialization through one of the following routes:
   - Occupation-specific courses
   - Recognized occupational license/registration/certification
   - Occupational examination
   - Sufficient documentation demonstrating comparable occupational expertise equivalent to 30 semester hours of credit.
   Appropriate documentation must be provided to advisor before this will be submitted for credit.

5. Upper Division Electives (6 hrs)
   (with advisor's approval)

6. Directed Field Experience (12 hrs)
   - The Occupational Specialization must be satisfied and all courses must be completed prior to registering, through your advisor, for the Directed Field Experience.

7. Foreign Language Requirements (0-8 hrs)
   State University System foreign language admission requirement: two years in high school or one year of college instruction in a single

Foreign language. (This requirement applies to those students admitted to the University without the required two units of foreign language in high school.)

6. Departmental Exit Requirements
   - Achieve a minimum 2.5 GPA in all courses within the major.

7. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence 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
      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: 3 hrs
      STA 1060C Principles of Statistics or STA 204C
      STA 204C Principles of Statistics
   D. Social Foundations (6 hrs)
      ECO 2013 Microeconomics
      PSY 2012 General Psychology
   E. Science Foundations (6 hrs)
      MTH 1060G Pre-calculus
      Select one: 3 hrs
      STA 1060C Principles of Statistics or STA 204C
      STA 204C Principles of Statistics

   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
      STA 2014C Principles of Statistics or STA 204C
      STA 204C Principles of Statistics
   B. Humanities (6 hrs)
      PHI 2010 Introduction to Philosophy
      Select one: 3 hrs
      ARH 2050 The History of Art I
      ARH 2051 The History of Art II
      MUL 1010 Enjoyment of Music
      THE 2000 Theatre Survey
      FIL 1001 Film Survey
   C. Mathematics (9 hrs)
      MAC 1105 College Algebra
      MGF 1106 Finite Mathematics
      One of the following (per GEP)
      STA 1060C Principles of Statistics
      STA 204C Principles of Statistics
      STA 204C Principles of Statistics
   D. Social Science/History (12 hrs)
      AMH 2010 U.S. History 1492-1877
      AMH 2020 U.S. History 1877-Present
      ECO 2013 Microeconomics
      PSY 2012 General Psychology
   E. Science (9 hrs)
      Physical Science
      One of the following (per GEP)
      PSC 1121 Physical Science
      Select one: 3 hrs
      STA 1060C Principles of Statistics or STA 204C
      STA 204C Principles of Statistics

   Note: See laboratory component under Section 2.
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 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 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 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 Humanities
- 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 (9 hrs)
AGG 2021 Principles of Financial Accounting 3 hrs
AGG 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):
AGG 3131 Financial Accounting Concepts and Analysis 3 hrs
AGG 3361 Intermediate Managerial Accounting 3 hrs

Restricted Electives (12 hrs)
Select four from the following (at least two courses must have either an ACG or TAX prefix)
AGG 3131 Financial Accounting Concepts and Analysis 3 hrs
AGG 3361 Intermediate Managerial Accounting 3 hrs
AGG 3331 Intermediate Financial Accounting 3 hrs
AGG 2501 Accounting and Auditing in the Public Sector 3 hrs
AGG 4401 Accounting Information Systems 3 hrs
AGG 4651 Auditing 3 hrs
AGG 4671 Internal Auditing 3 hrs
AGG 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.

ADDITIONS: Certificate
College of Health and Public Affairs
School of Social Work, HPA 204
Paul Maiden, 407-823-2114
pmaiden@mail.ucf.edu

The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers. Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions. The certificate program will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida.

Admission Requirement:
This Certificate is only open to students in the undergraduate social work program (BSW). Students not in the social work program but enrolled in their junior or senior year at UCF may take the addiction courses to be applied toward their state certification through the Certification Board for Addiction Professionals of Florida.

Credit Hour Requirements: 12 hrs
Required Courses:
SOW 4705/5713 Prevention and Treatment of Adolescent Substance Abuse 3 hrs
SOW 5604 Medications in Social Work Practice 3 hrs
SOW 5937 Substance Abuse and Older Adults 3 hrs
SOW 5662 Strategies in Employee Assistance Programs 3 hrs
SOW 5907 Independent Study in Addictions – (i.e. Women in Treatment, Drug Control Policy, etc.; Can be taught by any faculty teaching one of the above courses)

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 (16 hrs)
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.
- 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 (6 hrs)
AMH 3571 Black American History I 3 hrs
AMH 3571 Black American History II 3 hrs

Restricted Electives (12 hrs)
AFA 3955 Study Abroad in the Caribbean 3 hrs
AFH 3100 African History to 1870 3 hrs
AFH 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
LAM 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 4022 Politics & Civil Rights 3 hrs
PUP 3314 Minorities in American Politics 3 hrs
SDP 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 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
School of Social Work, 407-823-2114

In recognition of the special needs of the elderly citizens of Central Florida, the University offers a fifteen-hour interdisciplinary program leading to a Certificate in Aging Studies. The certificate is open to
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

15 hours

Required Course

GEY 3001 Gerontology: Interdisciplinary Overview 3 hrs

Required Internship: Select one 120 hours

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 4532 Legal Issues of the Elderly 3 hrs

SOW 4645 Social Services for the Elderly 3 hrs

College of Arts & Sciences

DEP 3464 Psychology of Aging 3 hrs

SYP 4730 Sociology of Aging 3 hrs

GEY 3930/ Women and Aging 3 hrs

SYP 3930 Literature of Aging 3 hrs

SYP 4734 Minority Aging 3 hrs

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 12 hours used in the 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

18 hours

Required Courses

GEY 3001 Gerontology: Interdisciplinary Overview (3 hrs)

Required Internship: 120 hours; Select one

SOW 4510 Field Education 3 hrs

HSA 4941 Internship 3 hrs

PSY 3951 Internship 3 hrs

SYP 4941 Internship 3 hrs

Electives

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 4532 Legal Issues of the Elderly 3 hrs

SOW 4645 Social Services for the Elderly 3 hrs

College of Arts and Sciences

DEP 3464 Psychology of Aging 3 hrs

SYP 4730 Sociology of Aging 3 hrs

GEY 3930/ Women and Aging 3 hrs

SYP 3930 Literature of Aging 3 hrs

SYP 4734 Minority Aging 3 hrs

Other Required Courses

- 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 Humanics 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 Humanics 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 results in a National Certification in American Humanics Academic Program. Requirements for the minor are the same as for national certification.

Credit Hour Requirements

(19 credit hours)

Required Courses

(7 credit hours)

PAF XXXX American Humanics Service Workshop 4 hrs

PAF 4948 American Humanics Internship 3 hrs

* Internships within other programs may be accepted with prior approval of American Humanics 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

* SOW 3104 Assessing I - Human Development

DEP 2004 Developmental Psychology

PPE 3003 Personality Theory

DEP 3464 Psychology of Aging

Group II: Planning & Evaluation and Human Resource Development

3 hrs

PAD 4144 Nonprofit Organizations

PAD 4153 Strategic Planning & Implementation

PAD 4325 Program Evaluation for the Public and Nonprofit Organizations

* SOW 4431 Evaluating Social Work Practice & Service Programs

PAD 4414 Human Resource Management

MAN 3025 Management of Organizations

MAN 3301 Human Resource Management

MAN 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

SPC 3445 Leadership Through Oral Communication

GEB 3031 The Cornerstone Course

MAR 3032 Marketing

MAR 3641 Marketing Intelligence

MAR 4803 Marketing Management


3 hrs

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

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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 4145 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/arts_majors
E-mail: ls@mail.ucf.edu
Liberal Studies Advising Team

Credit Hour Requirements 21 hours
Required Courses
Select one course in each of the three categories below

Literature and Humanities
AML 3031 American Literature I
AML 4101 American Novel
AML 4261 Literature of the South
LIT 3354 Ethnic Literature in America
Social Sciences
POS 3413 The American Presidency

Restricted Electives (12 hrs)
Courses chosen from courses approved by the Liberal Studies advis-ors. 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
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
(orf 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 4206 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)
ANT 2000 General Anthropology
ANT 2410 Cultural Anthropology

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 3640 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.

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 (3 hrs)
- ARH 2051 The History of Art II (3 hrs)
- ARH 4310 Early Italian Renaissance Art (3 hrs)
- ARH 4450 20th Century Art (3 hrs)

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 4350 Baroque Art
- ARH 4892 Women in Art
- ARH 4458 Women and Art in the 20th Century America
- ARH 5478 Contemporary Women Artists
- ARH 4800 Theory and Criticism of the Visual Arts

6 hours of electives (6 hrs)
Two additional ARH 3XXX-4XXX courses

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 2051 The History of Art II
- ARH 2201C Design Fundamentals I
- ARH 2203C Design Fundamentals II
- ARH 2300C Drawing Fundamentals I
- ARH 2301C Drawing Fundamentals II

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 Families and Cosmology 3 hrs

Restricted Electives (2 hrs)
Select either:
- PHY 2049 Physics for Engineers & Scientists II or
- PHY 2048L Physics for Engineers and Scientists I lab and
- 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/~psychof
psychology@ucf.edu

Credit Hour Requirements 27 hours
Prerequisite Courses (6 hrs)
- PSY 2012 General Psychology or GEP
- SYG 2000 General Sociology
- PPE 3003 Personality Theories 3 hrs
- SYP 3510 Socio of Deviant Behavior 3 hrs

Required Courses (12 hrs)
- PSY 4XXX Forensic Psychology 3 hrs
- PSY 3XXX Legal Aspects of Psycho 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 Psychology
- PCO 4203 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 4639 Serial Murder & CJ
- CCJ 4616 Criminal Profiling in CJ

BIOLGY: 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)
- Required Accounting Course(s) (6 hrs)
  - ACG 2021 Principles of Financial Accounting
  - ACG 2071 Principles of Managerial Accounting

Required Courses (15 hrs)
- ECO 2013 Macroeconomics
- ECO 2023 Microeconomics
- PCB 3034 Principles of Ecology
- PCB 3063 Genetics
- PCB 4683 Population and Evolution

Restricted Elective (3 hrs)
A 3000 level business core course
(GEB 3004 may not be used)

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- 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 Courses (6 hrs)
- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting

Required Courses (15 hrs)
- ECO 2013 Macroeconomics
- ECO 2023 Microeconomics
- FIN 3403 Business Finance
- MAN 3025 Management of Organizations
- MAR 3023 Marketing

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.
- 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.
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 2045 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

Restricted Upper Division Electives (7 hrs)
At least one course must be selected from group I and the remaining from group I and/or II:

Group I:
CHM 3212L Organic Laboratory Techniques II 2 hrs
CHM 4130C Advanced Analytical Laboratory Technique 3 hrs
BCH 4103L Biochemical Methods 3 hrs
CHS 3530C Forensic Analysis of Controlled Substances 3 hrs
CHM 3411L Physical Chemistry Laboratory 2 hrs
CHM 5451C Polymer Chemistry Laboratory 3 hrs

Group II:
CHM 4053 Biochemistry I 3 hrs
CHM 4054 Biochemistry II 3 hrs
CHM 3410 Physical Chemistry I 3 hrs
CHM 3411 Physical Chemistry II 3 hrs
CHM 5225 Advanced Organic Chemistry I 3 hrs
CHM 4220 Organic Chemistry III 3 hrs
CHS 4200 Concepts in Industrial Chemistry 3 hrs
CHM 5235 Applied Molecular Spectroscopy 3 hrs
CHM 5450 Polymer Chemistry 3 hrs
CHS 4615 Environmental Chemistry 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 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 3052 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.

COACHING: Minor
College of Education
Department of Teaching and Learning Principles
ED building, second floor; 407-823-5791
Patricia Higginbotham, 407-823-2050

The coaching minor is designed to provide a limited, but substantive experience in the field of coaching. The state of Florida requires a coaching endorsement for all persons certified to teach, which includes nine hours (Human Injuries, Coaching Theory, and a Coaching Specialization course). This minor is appropriate for those students who plan to coach and/or are seeking a career in the fields of Physical Education and sport. The following courses will give the student a coaching endorsement as well as strengthen the marketability of the student’s major program.

Credit Hour Requirements 18 hours
Required Courses
PET 2622C Human Injuries 3 hrs
PET 3765 Coaching Theory 3 hrs
PET 3493 Sports Ethics 3 hrs
PET 4215 Motivational Aspects of Athletic Performance 3 hrs
PET 4763 Coaching Methods and Principles 3 hrs

Select one course from the following:
PEO 2524 Coaching Football 3 hrs
PEO 3544 Coaching Basketball 3 hrs
PEO 3524 Coaching Volleyball 3 hrs

* If the student has completed this course at a community college it can be transferred into the program.

Other Requirements
- An overall GPA of 2.0 is required to satisfy the minor.
- No grades below “C-” (1.75) and no “S” grades will be accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No TSD or Military credit may be used.
- Internship or Independent Study credit cannot be used toward the minor.

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 8 yrs 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 within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

Licensed Speech Language and Audiology Assistant
This state license may be obtained by completing the minor plus one additional course as recommended by the academic advisor.

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
majors 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: computercience@ucf.edu
http://www.cs.ucf.edu
Mark Llewellyn, 407-823-2341

Credit Hour Requirements
36 hours

Required Courses
- COP 3502C Computer Science I (3 hrs)
- COP 3503C Computer Science II (3 hrs)
- CDA 3103C Computer Organization (3 hrs)
- MTH 2104 Foundations of Discrete Math (3 hrs)
- COP 3223 Intro to Programming with C (3 hrs)
- COP 3330 Object Oriented Programming (3 hrs)
- CGS 2545C Database Concepts (3 hrs)
- CGS 3269 Comp Arch Concepts (3 hrs)
- CGS 3285 Comp Networks Concepts (3 hrs)
- CGS 3763 Operating System Concepts (3 hrs)
- COP 3346 Unix (3 hrs)

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 18 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: computercience@ucf.edu
http://www.cs.ucf.edu

Credit Hour Requirements
18 hours

Required Courses
- COP 3223 Intro to Programming with C (3 hrs)
- COP 3330 Intro to Object Oriented Programming (3 hrs)
- COP 3502C Computer Science I (3 hrs)
- COP 3503C Computer Science II (3 hrs)
- COT 3100C Introduction to Discrete Structure (3 hrs)
- CDA 3103C Comp. Organization (3 hrs)

Other Requirements
- A grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned 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: computercience@ucf.edu
http://www.cs.ucf.edu
407-823-2341

Credit Hour Requirements
18-19 hours

Required Courses
Select one of the following tracks:
- Track 1:
  - CDA 3100C or COP 2100 and COP 2100
- Track 2:
  - COP 3223 Intro to Programming with C
  - COP 3502C Computer Science I

Restricted Electives
(6 hrs)
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
(6 hrs)
Any upper division courses offered within Computer Science at UCF or additional courses chosen from the restricted electives (exclusive of independent studies, internships, and those courses listed under Required Courses).

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
15 hours

Required Courses [in sequence]
- CJE 3662 Data Management Systems for Crime Analysis (3 hrs)
- CJE 4663 Crime Mapping and Analysis in Criminal Justice (3 hrs)
- CCJ 4076 Advanced Crime Mapping and Analysis in Criminal Justice (3 hrs)

Restricted Upper Division Electives
(6 hrs)
Select two of the following:
- CCJ 3451 Justice Systems Technology (3 hrs)
- CJE 3444 Crime Prevention (3 hrs)
- CJE 4654 Crime and Place (3 hrs)
- CCJ 3450 Criminal Justice Manager (3 hrs)
- CCJ 4454 Policy Development in Law Enforcement (3 hrs)
- CCJ 4459 Justice Agency Operations (3 hrs)

Other Requirements
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF within the Department of Criminal Justice.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.
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: cja@ucf.edu

Credit Hour Requirements 18 hours

Required Courses
CCJ 3024 Criminal Justice System 3 hrs
CCJ 3014 Crime in America 3 hrs

Restricted Electives
Two of the following:

CJ 3510 Prosecution and Adjudication 3 hrs
CJC 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

Credit Hour Requirements 18 hrs

Required Courses: 12 hrs
CCJ 4690 Sex Offenders and the Criminal Justice System 3 hrs
CCJ 3014 Crime in America 3 hrs
CCJ 4661 Criminal Profiling in Criminal Justice 3 hrs

Restricted Upper Division Electives
Select one of the following:
CCJ 4100 Criminal Investigation 3 hrs
CCJ 4661 Terrorism 3 hrs
CCJ 4932 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.

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
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 classes from one of the following areas
Africa (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 4023 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 grade of "C" or above (2.0) is required in each course used to satisfy the certificate.
- At least 12 hours used in the certificate must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Co-op credit cannot be used toward the certificate without prior permission of the program director.

DIGITAL MEDIA: 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
IDS 2680 Introduction to Digital Media 3 hrs
ART 2800C Introduction to Computer Art 3 hrs
IDS 4688L Internet Interaction 3 hrs
COP 2500C Concepts in Computer Science 3 hrs

Restricted Elective Courses
Select two courses:
MUS 3XXX 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 4689C Media for E-Commerce I 3 hrs
IDS 4XXX Interactive Devices 3 hrs
IDS 4681 Modeling for Realtime Graphics 3 hrs
IDS 3687C Digital Imagery 3 hrs
IDS 4024 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 15 hours used in the minor must be taken at UCF.
- No credit by exam (TSD, Military credit) may be used.
The certificate program focuses on providing an opportunity for students with substantial media-related skills to learn project management skills and participate in a Senior Project. Admission to the Certificate Program is by portfolio only.

Entrance Requirement
- Admission to the Digital Arts Seminar requires evaluation of a portfolio of work which demonstrates the student’s creativity and technical accomplishment is some artistic or technical domain.
- All evaluations are conducted by the program Curriculum Committee.

Credit Hour Requirements:
- Required Course: (3 hrs)
  - IDS 3883 Digital Media Production I (3 hrs)
- Restricted Elective: (3 hrs)
  - Any course listed under the Advanced Specializations of the Digital Media major (substitutions must be approved by the program director prior to being taken)
- Senior Project: (6 hrs)
  - IDS 4822L Digital Media Project (may be repeated for credit)

Other Requirements
- A minimum grade of “C” (2.0) is required in each course used to satisfy the certificate.
- All courses used in the certificate must be taken at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can be used in the certificate only with prior written permission.

EARLY CHILDHOOD EDUCATION: Minor

College of Education
Department of Child, Family, Community Sciences
http://www.edcollege.ucf.edu

Dr. Wilfred Wienes, 407-823-2402; wwienie@mail.ucf.edu
Program Coordinator: Lynn Hartle, 407-823-4163; lhartle@mail.ucf.edu

The Early Childhood Education minor is intended to provide a limited, but substantive experience in the fields of education and early childhood education. The minor is intended for University students enrolled outside the College of Education and does not lead to teacher certification or admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career working with young children in the fields of education, early childhood education, social work, psychology or health services. This minor will strengthen the marketability of the student’s major program.

Credit Hour Requirements:
- Required Courses: (12 hrs)
  - IDS 3883 Digital Media Production I (3 hrs)
- Restricted Elective: (3 hrs)
  - Any course listed under the Advanced Specializations of the Digital Media major (substitutions must be approved by the program director prior to being taken)
- Senior Project: (6 hrs)
  - IDS 4822L Digital Media Project (may be repeated for credit)

Other Requirements:
- A minimum grade of “C” (2.0) is required in each course used to satisfy the certificate.
- All courses used in the certificate must be taken at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit can be used in the certificate only with prior written permission.

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 hrs)
- Required Courses: (9 hrs)
  - ECO 2023 Microeconomics (3 hrs)
  - ECO 2013 Macroeconomics (3 hrs)
- Upper Division Required Courses: (9 hrs)
  - Select from the following courses:
    - ECO 3101 Intermediate Price Theory (3 hrs)
    - ECO 3203 Aggregate Econ Conditions Anal (3 hrs)

Upper Division Restricted Electives: (3 hrs)
- Select from any ECO, ECP or ECS courses at the 3000-4000 level, excluding ECO 3401.

Note: Completion of the minor does not complete the requirements for certification in Early Childhood Education nor does it constitute admission to the College of Education.
ENGLISH - LITERATURE: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
P. Murphy, 407-823-2212

Credit Hour Requirements
18 hours

Required Course
ENG 3014 Theories and Techniques of Literature
(3 hrs)

Restricted Upper Division Electives
(18 hrs)

English courses with AML, ENG, ENL, or LIT prefixes chosen by student and departmental advisor

Other Requirements
A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
At least 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 3311 Advanced Expository Writing
3 hrs
ENC 3510 Techniques of Technical Publications
3 hrs
ENC 4218 Visual Elements in Documentation
3 hrs
ENC 4293 Technical Documentation I
3 hrs
ENC 4294 Technical Documentation II
3 hrs
ENC 4295 Technical Documentation III
3 hrs

Students completing the minor may intern with a Central Florida corporation

Other Requirements
A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
At least 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 pre-requisites, including
CRW 3211 Creative Nonfiction Writing
CRW 3310 Poetry Writing Workshop
CRW 3311 Structure of Verse
CRW 3120 Fiction Writing Workshop
CRW 3211 Creative Nonfiction Writing
CRW 3013 Creative Writing for English Majors

Other Requirements
A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
At least 15 hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.
Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - LINGUISTICS: Minor
College of Arts and Sciences
Department of English, CNH 301
english@ucf.edu
P. Murphy, 407-823-2212

Credit Hour Requirements
18 hours

Restricted Upper Division Electives
(9 hrs)

LIN 4650 Linguistics and Literature
3 hrs
LIN 4801 Language and Meaning
3 hrs
LIN 5137 Linguistics
3 hrs
ANT 3640 Language and Culture
3 hrs
PHI 4400 Philosophy of Science
3 hrs

or any course approved by the Linguistics Committee

Other Requirements
A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
At least 15 hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.
Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENGLISH - CREATIVE WRITING: 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
CRW 3013 Creative Writing for English Majors
3 hrs

Restricted Elective Courses
(6 hrs)

Select one course after completing CRW 3013
CRW 3120 Fiction Writing Workshop
CRW 3310 Poetry Writing Workshop
CRW 3311 Structure of Verse
CRW 3120 Fiction Writing Workshop

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.

Minors, Certificates and Study Abroad

EMERGENCY MANAGEMENT: Minor
College of Health and Public Affairs
Department of Public Administration, HPA 238
Dr. K. Tom Liu, 407-823-2604; fax: 407-823-5651

Credit Hour Requirements
18 hours

Core Courses
(18 hrs)
PAD 4110 Intergovernmental Administration
3 hrs
PAD 4302 Managing Public Emergencies
3 hrs
PAD 4393 Emergency Management and Disaster Planning
3 hrs
PAD 4712 Information System for Public Managers
3 hrs
PAD 4XXX Disaster Response and Recovery
3 hrs
PAD 4XXX Hazard Mitigation
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) or “S” grades are not accepted.
Internship or Independent Study cannot be used toward the minor.

Internship or Co-op, or Independent Study credit cannot be used toward the minor.

No credit by exam (TSD, Military credit) may be used.

At least 15 hours used in the minor must be earned at UCF with-in the department.
Grades below “C” (2.0) or “S” grades are not accepted.

Internship, Co-op, or Independent Study credit cannot be used toward the minor.

No credit by exam (TSD, Military credit) may be used.

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.
ENVIRONMENTAL STUDIES: Minor

College of Arts and Sciences
Liberal Studies Program, CNH 201
http://www.cas.ucf.edu/liberal_studies
ls@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 inquisitiveness that we share concerning our environment.

Credit Hour Requirements 21 hours

Note: It is the student's responsibility to ensure that any prerequisite courses have been completed before enrolling in any of these courses requiring a prerequisite.

Required Course
IDS 3230 Foundations of Environmental Studies 3 hrs

Science & Environmental Electives (9 hrs)

Natural Sciences
BSC 1050L Biology and Environment + lab
BSC 2011C Biological Diversity
BOT 3152C Local Flora
BOT 4156C Florida Wildflowers
BOT 3800 Ethnobotany
BOT 4303C Plant Kingdom
BOT 4696C Conservation and Management of Native Plants
BOT 5623C Plant Geography and Ecology
BOT 4713C Plant Taxonomy
BSC 4312C Marine Biology
PCB 3034L Principles of Ecology and Lab
PCB 3442 Florida Aquatic Ecology
PCB 4302C Physicochemical Limnology
PCB 4303C Biological Limnology
PCB 4683 Population Biology and Evolution
PCB 5045C Conservation Biology
PCB 5326C Ecosystems of Florida
PCB 5345C Marine Ecology of Florida
PCB 5485 Models in Ecology
PCB 5328C Landscape Ecology
CHM 3120C Analytical Chemistry
CHM 4616 Environmental Chemistry
HSC 4500 Epidemiology

Technology & Society
EGN 4813 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 4503 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 2370 Resources Geography
GEO 4131C 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.

Restrictive Electives (3 hrs)

- ECO 4405 App/Theory Special Needs Students Indep Study
- EDF 4242 Classroom Learning Principles

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 courses 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 Environmental Education nor does it constitute admission to the College of Education.

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: wwieneke@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
- EEX 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
- EEX 5243 Techniques for Exceptional Adolescents/Adults or
eX 3241 Methods for Academic Skills for Exceptional Students 3 hrs

Restricted Electives (3 hrs)

- EEX 4054 App/Theory Special Needs Students Indep Study 3 hrs
- EDF 4242 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 courses 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 Requirements
Completion of a Minor Declaration and Minor Application

Credit Hour Requirements 18 hours
Required Courses (12 hrs)
FIL 1007 Foundations of Story or 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 (Choose Two) (6 hrs)
FIL 3309 Women in Film
FIL 3520 Italian Film
FIL 3521 French Film
FIL 3XXX Black Images in Film
FIL 3522 German Film
FIL 3412 Black Cinema

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 (8 hrs)
GER 1213 Elementary I 3 hrs
GER 1214 Elementary II 3 hrs

Restricted Electives
Select six upper division courses in German, including the 3000-level advanced oral communication and composition courses. 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.

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 (22 hrs)
*PEM 2117 Aerobic Dancing 3 hrs
*PET 2622C 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 2622C and the PEM 2117 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 (20 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 4226C Coding Practice I 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, HPA2 212
L. Timothy Worrell, 407-823-2214
E-mail: worrell@mail.ucf.edu

Credit Hour Requirements 18 hours

Other Requirements
- 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.
Required Courses (9 hrs)
- HSA 3122 U.S. Health Care Systems 3 hrs
- HUN 2002 Modern Concepts of Nutrition 3 hrs
- HSC 3110C Medical Self Assessment 3 hrs

Restricted Upper Division Electives (9 hrs)
- 9 additional hours of upper division courses in the Health Professions department.

Other Requirements
- Majors may not count courses presently required in a department program.
- A minimum GPA of 2.5 is required in all coursework, and a minimum grade of “C” (2.0) is required in all Health Professions courses.
- Grades less than “C” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

HUMANITIES: Minor
College of Arts and Sciences
Department of History, CNH 551
http://pegasus.cc.ucf.edu/~history/history@ucf.edu
Edmund F. Kallina, 407-823-2224

Credit Hour Requirements 18 hours
Required Courses (15 hrs)
- HSA 3122 U.S. Health Care Systems 3 hrs
- HSA 4120 Community Health Services 3 hrs
- HSA 4180 Org and Mgmt for Health Agencies 3 hrs
- HSA 4193 Health Care Automation 3 hrs
- HSC 4500 Epidemiology 3 hrs

Restricted Elective (3 hrs)
- HSC 3640 Health Law or
- HSC 4553 Health Care Ethics or
- HSA 4109 Managed Care or
- HSA 4200 Risk Management
- HSA 4700 Health Science Research Methods

(Additional prerequisite courses may be required)

Other Requirements
- A minimum GPA of 2.5 is required in all coursework, and a minimum grade of “C” (2.0) is required in all courses for the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

HISTORY: Minor
College of Arts and Sciences
Department of History, CNH 551
http://pegasus.cc.ucf.edu/~history/history@ucf.edu
Edmund F. Kallina, 407-823-2224

Credit Hour Requirements 18 hours
Required Courses (15 hrs)
- HUM 3341 Ancient History
- HUM 3345 Medieval Humanities
- HUM 3255 Modern Humanities
- HUM 3261 Contemporary Humanities

Restricted Upper Division Electives (3 hrs)
- Any course taught within the History Department

Other Requirements
- A grade of “C-” (1.75) or better is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental approval.

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 2402 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 2570 Tourism Management 3 hrs
- HFT 2561 Restaurant Management 3 hrs
- HFT 3273 Principles of Resort Time Sharing 3 hrs
- HFT 4755 Theme Park & Attraction Mgmt 3 hrs
- HFT 2750 Meetings/Conv/Expo Industry 3 hrs
- FSS 2210C Quantity Food Preparation 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.

HUMANSITIES: 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 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 I

Applicability 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
Other Requirements

- A “C” (2.0) grade or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

INTERNATIONAL BUSINESS:

Minor for Business Majors

College of Business

Office of Student Support, BA 240

Richard Ajayi, 407-823-5908

Credit Hour Requirements 18 hours

Required Courses
- GEB 4361 Business in the International Env (3 hrs)
- ECO 3703 International Economics (3 hrs)
- FIN 4604 International Financial Management (3 hrs)

Restricted Elective
- MAR 4156 International Marketing (3 hrs)
- MAN 4600 International Management (6 hrs)

Electives
- ANT 3212 People of the World (6 hrs)
- ECS 4003 Comparative Economic Systems (6 hrs)
- ECS 4013 Economic Development (6 hrs)
- GEO 3470 World Political Geography (6 hrs)
- INR 4035 International Political Economy (6 hrs)
- INR 4401 International Law I (6 hrs)
- INR 4224 Contemporary International Politics of Asia (6 hrs)
- INR 4243 International Politics of Latin America (6 hrs)
- Special Topics Seminars in International Business; 3000/4000 level foreign language course (6 hrs)

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 13 hours

Required Courses
- MUB 1012 Jazz History (3 hrs)
- MUB 2525 Improvisation I (3 hrs)
- MUB 3511 Advanced Jazz Ensemble I (3 hrs)
- MUB 3512 Jazz Improvisation II (3 hrs)
- MUB 3600 Jazz Improvisation III (3 hrs)
- MUB 3711 Jazz Improvisation IV (3 hrs)
- MUB 4501 Advanced Jazz Ensemble II (3 hrs)
- MUB 4554 Jazz Repertory (3 hrs)
- MUB 4811 Jazz Theory and Literature (3 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.
- 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: judaicst@ucf.edu

Moshe Pelli, 407-823-5039

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The Program cooperates with the departments of

ITALIAN: 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 6 upper division courses in Italian, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements

- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.
Latin 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 organiza-
tions, 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 4180C Seminar in Laboratory Analysis
ANG 6324 Contemporary Maya
ANG 5167 Maya Hieroglyphics
ANG 5228 Maya Iconology

Economics:
ECO 2013 Macroeconomics
ECO 3703 International Economics
ECO 4701 The Global Economy
ECS 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:
EUH 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 4303 Comparative Latin American Politics
INR 4243 International Politics of Latin America
CPO 3934 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 gradu-
ation

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.

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 law studies courses selected with the aid of an advisor.

Restricted Electives (3 hrs)
3 semester hours of law-related courses selected with the aid of an advisor.

Other Requirements
A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
Grades less than “C-” (1.75) are not accepted.
At least 15 hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.
Internship or Independent Study credit cannot be used toward the minor.

MAGAZINE JOURNALISM: Minor
College of 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 3 hrs
JOU 3510 Magazine Publishing 3 hrs
JOU 4224 Magazine Editing and Production 3 hrs

Restricted Upper Division Electives (9 hrs)
ENC 3310 Magazine Writing I
JOU 3200 Editing I
JOU 3202 Editing II
JOU 4300 Feature Writing
JOU 4308 Freelance Writing
JOU 4304C 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.

MANAGEMENT INFORMATION SYSTEMS: Minor
College of Business Administration
Department of MIS, BA 309
407-823-3174

Credit Hour Requirements 18 hours

Prerequisite courses
CGS 2100C Computer Fundamentals I Business or
CGS 1060C Intro to Computer Science (or equivalent)
MAC 1105 College Algebra or
MGF 1106 Finite Mathematics

Required Courses (minimum 15 hrs)
ISM 3011 Management Information Systems 3 hrs
ISM 3214 Database Management Systems in Business 3 hrs
ISM 3482 Essentials of Electronic Commerce 3 hrs
ISM 3013 Introduction to Information Systems Management 3 hrs
ISM 3212 Business Applications 3 hrs

Electives (choose one)
ISM 3424 Computer-aided Decision Making 3 hrs
ISM 3043 Technology and Society 3 hrs
Any programming language course (minimum 3 hrs)
Other ISM course (requires prior approval) (minimum 3 hrs)

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 9 hours of upper division credit used in the minor must be earned at UCF.
No credit by exam (TSD, Military credit) may be used.
Internship or Independent Study credit cannot be used toward the minor.

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 (3 hrs)
MAR 3023 Marketing

Restricted Electives (12-15 hrs)
Select four or five:
MAR 3323 Integrated Marketing Communication
MAR 3391 Professional Selling
MAR 3403 Sales Force Management
MAR 3631 Customer Behavior
MAR 3633 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 301C, 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) or “S” grades from other institutions are not accepted.
At least nine hours used in the minor must be earned at UCF within the department.
No credit by exam (TSD, Military credit) may be used.
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

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
Certificate in Services Marketing  
MAR 4841 Services Marketing  
**MAR 4941 ( internship in services-related position)  
* These nine hours count as the nine elective marketing hours required in the major.  
** Certificate attainment is subject to the availability of internship opportunities in the area of interest.

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  
18 hours  
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 and New Technology  
RTV 3200 Production Fundamentals and Aesthetics of Electronic Media  
RTV 4403 Electronic Media, Technology and Society  
Other Requirements  
A minimum GPA of 2.0 is required in all courses used to satisfy the minor.  
Grades below "C" (2.0) in lower level courses are not accepted.  
At least 12 hours used in the minor must be earned at UCF within the School of Communication.  
No credit by exam (TSD, Military credit) may be used.  
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 Heinzner, 407-823-2697, mheinzner@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 2321, MAC 2282, MAC 2283  
MAP 2302 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 taken 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)  
MAS 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 MAS 3105 or MAS 3106 may be used but not both. Courses may be selected from MAA 4225 and MAA 4227, or MAA 5210 but not both.)  
Other Requirements  
A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.  
At least 6 hours used in the minor must be earned at UCF within the department.  
No credit by exam (TSD, Military credit) may be used.

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)  
CPO 3403 Politics of the Middle East  
3 hrs  
HUM 3419 Islamic Thought and Culture  
3 hrs  
PAS 3223 The Modern Middle East  
3 hrs  
Restricted Electives  
(12 hrs)  
ARA 2200 Intermediate Arabic Language and Civ I  
ASH 3222 Islam and Its Empires  
ASH 5227 The Arab-Israeli Conflict  
CPO 4710 Women in Comparative Politics  
HBR 2200 Intermediate Modern Hebrew I  
HUM 3553 Moses, Jesus and Muhammad  
JST 3401 The Jewish People I  
JST 3402 The Jewish People II  
JST 3820 Modern Hebrew Culture  
PHH 3200 World Religions  
REL 2390 World Religions  
Additional courses may be used only with prior permission of the program director.  
Although not required, students are strongly encouraged to complete at least one year of Arabic (ARA 1120, 2121) and/or Hebrew (HBR 1120, 2121).  
Other Requirements  
Students who are also minoring or completing a certificate in Judaic Studies may not have more than 3 credits that are counted in both programs.  
At least 15 hours used to satisfy this minor must be at the upper division.  
A grade of "C" or above (2.0) is required in each course for the minor.  
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.
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: pkolatt@mail.ucf.edu  
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**Credit Hour Requirements**  
*Required Courses (23 hrs)*  
- BSC 2010C General Biology 4 hrs  
- MCB 3020C General Microbiology 5 hrs  
- PCB 3233 Immunology 3 hrs  
- PCB 3233L 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  
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**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 1010 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  
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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.

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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

**Restrictive 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 INDIGENOUS STUDIES: Minor  
*College of Arts and Sciences*  
**Department of Sociology and Anthropology, PH 403**  
David E. Jones, 407-823-2227  

The North American Indigenous 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**  
*Required Courses (18 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)

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

Restricted Upper Division Electives

(15 hrs)

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the School of Communication.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

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

Philosophical Foundations: 21 hours

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 Applied Ethics

Knowledge
PHI 3320 Philosophy of Mind
PHI 4341 Ways of Knowing
PHI 4351 Theories of Knowledge

disciplinary and Interdisciplinary Knowing (3 hours)

Select one course

PHM 3300 Philosophy of Law
PHI 3700 Philosophy of Religion
PHI 4400 Philosophy of Science
PHI 4420 Philosophy of Social Science
PHI 4541 Philosophy of Psychology
PHI 3600 Aesthetics

Applications (6 hours)

Select two courses

PHI 3601 Practical Wisdom
PHI 3638 Ethical Issues in the 21st Century
PHI 3640 Environmental Ethics
PHI 3941 Philosophy Practicum
PHI 4331 Philosophy in the News
PHI 4633 Ethics and Biological Science
PHI 4804 Critical Theory
PHM 3100 Freedom and Justice
PHM 3123 Feminist Theory
PHM 4031 Environmental Philosophy
REL 3XXX Religion, Philosophy and Film

Upper Division Restricted Electives (3 hours)

Select an additional course from those listed above or another upper division Philosophy course

Note: Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by departmental advisor.

Other Requirements

- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
- 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 by the Chair.
- Any substitutions must be approved by the department prior to being taken.

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

Required Courses (11 hrs)

PHY 2048L Physics Laboratory for Eng and Sci I 1 hr
PHY 2049L Physics for Eng and Sci I 3 hrs
PHY 2049 Physics for Eng and Sci II 3 hrs
PHY 2048 Physics for Eng and Sci I 3 hrs

Restricted Upper Division Electives (9 hrs)

Selected from upper-level Physics lecture or laboratory courses appropriate for majors.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- 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.

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

Required Course (3 hrs)

POS 2041 American National Government

Restricted Upper Division Electives (15 hrs)

Select 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/PRELAW: Minor

### College of Arts and Sciences

**Department of Political Science, CNH 415**

[http://pegasus.cc.ucf.edu/~politics](http://pegasus.cc.ucf.edu/~politics)

**politics@ucf.edu**

Roger Handberg, 407-823-2608

**Credit Hour Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POS 2041 American National Government</td>
<td>3</td>
</tr>
<tr>
<td>POS 4284 Judicial Process and Politics</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Courses (10 hrs)**

**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](http://pegasus.cc.ucf.edu/~psych)

**psychology@ucf.edu**

Jack McGuire, 407-823-2216

**Undergraduate Advising: Psychology Advising Center, PH 305G, 407-823-2219**

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 student’s major program. Emphasis areas will not appear on the transcript.

**Credit Hour Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 2012 General Psychology</td>
<td>3</td>
</tr>
<tr>
<td>STA 2014C Principles of Statistics or STA 2023 Statistical Methods I</td>
<td>3</td>
</tr>
<tr>
<td>PSY 3214C Research Methods in Psychology</td>
<td>4</td>
</tr>
</tbody>
</table>

**Required Courses (10 hrs)**

**Restricted Electives (12 hrs)**

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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PAD 3003 Public Admin in American Society</td>
<td>3</td>
</tr>
<tr>
<td>PAD 4034 The Administration of Public Policy</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Courses (18 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

**Religious Studies Program, CNH 511**

[http://www.cas.ucf.edu/religion](http://www.cas.ucf.edu/religion)

**religion@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**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>REL 2300 World Religions</td>
<td>3</td>
</tr>
</tbody>
</table>

**Required Courses (3 hrs)**

**Restricted Electives (18 hrs)**

See department for approved list of courses

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without prior approval by the Director.

## RUSSIAN AREA STUDIES: Minor

### College of Arts and Sciences

**History Department, CNH 551**

[history@ucf.edu](mailto:history@ucf.edu)

Richard Crepeau, 407-823-2224

**Credit Hour Requirements**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUS 1121 Elementary Russian Lang &amp; Civ I</td>
<td>4</td>
</tr>
</tbody>
</table>

**Language requirement (4 hrs)**

- RUS 1121 Elementary Russian Lang & Civ I (completion of the course or credit by examination)

**Required Courses (9 hrs)**

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EUH 4576 History of Russia in the 20th Century</td>
<td>3</td>
</tr>
</tbody>
</table>

**Restricted Upper Division Electives (6 hrs)**

- EUH 4576 History of Russia in the 20th Century
- ECO 3703 International Economics
- INR 4035 International Political Economy
- ECO 4892 20th Century Russian Diplomatic History

**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.

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**UNIVERSITY OF CENTRAL FLORIDA**

2003-2004 Undergraduate Catalog
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 3803 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 3444 Crime Prevention 3 hrs
- CJT 4842 Special Security Problems 3 hrs
- PLA 5937 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 (9 hrs)
- CCJ 3804 Security Administration 3 hrs
- CCJ 3803 Security Management 3 hrs
- CCJ 4843 Risk Management 3 hrs
- PLA 4624 White Collar Crime 3 hrs

Restricted Courses (12 hrs)
Select one of the following:
- PSS 3301 Research Methods in Psychology 3 hrs
- PSS 3302 Research Methods in Sociology 3 hrs
- SYA 3300 Social Statistics 3 hrs

Other Requirements
- A native or near-native speaker must substitute an alternate language course for students of all disciplines and includes courses from aerospace engineering, electrical engineering, environmental engineering, instructional programs, physics, physical education, and political science.
- No credit by exam (TSD, Military credit) may be used.
- At least 15 hours used in the minor must be earned at UCF.
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- 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.

SOCIETY: 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 (9 hrs)
- SYG 2000 General Sociology 3 hrs

Restricted Courses (12 hrs)
Select one of the following:
- SYG 3414 Anthropology of the Developing Child 3 hrs
- SYG 3430 Anthropology of the Family 3 hrs
- SYG 3432 Principles of Cultural Anthropology 3 hrs

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.

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)
Select one of the following:
- EAS 3101 Fundamentals of Aerospace Flight 3 hrs
- EAS 3103 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 Physiology 3 hrs
- PUP 3508 Space Studies 3 hrs
- PUP 4510 Space Policy 3 hrs
- SCE 5825 Space Science for Educators 3 hrs

Other Requirements
- A native or near-native speaker must substitute an alternate language course for students of all disciplines and includes courses from aerospace engineering, electrical engineering, environmental engineering, instructional programs, physics, physical education, and political science.
- No credit by exam (TSD, Military credit) may be used.
- At least 15 hours used in the minor must be earned at UCF.
- 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 Courses (12 hrs)
Select one of the following:
- SPA 3415 Intermediate Spanish 3 hrs
- SPA 3605 Advanced Spanish 3 hrs
- SPA 4130 Advanced Spanish 3 hrs

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.
Minors, Certificates and Study Abroad

- 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.

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

Credit Hour Requirements
Required Courses (9 hrs)
- STA 2023 Statistical Methods I (3 hrs)
- STA 3032 Probability and Statistics for Engineers (3 hrs)
- STA 4163 Statistical Methods II (3 hrs)
- STA 4164 Statistical Methods III (3 hrs)

Restricted Upper Division Electives (9 hrs)
- STA 3xxx-4xxx 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.

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
Required Courses
- MAC 1105 College Algebra (3 hrs)
- GEP Cultural and Historical Foundations (3 hrs)

Restricted Upper Division Electives
- A minimum of nine hours must be taken from the EGN/ETI prefix courses listed below

- EGN 4033 Technology and Social Change
- EGN 4813 Science in History
- EGN 4814 Technology in History
- EGN 4823 Topics in Urban Development
- EGN 4824 Energy and Society
- EGN 4825 Environment and Politics
- EGN 4830 Telecommunications
- ETI 3671 Technical Economic Analysis
- ETI 4205 Applied Logistics
- ETI 4700 Occupational Safety
- GEO 2370 Resources Geography
- LIT 3313 Science Fiction
- LIT 4433 Survey of Technical and Scientific Literature
- PUP 3203 Environmental Politics
- PUP 4503 Government and Science
- PUP 4510 Space Policy

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

THEATRE - GENERAL: Minor
College of Arts and Sciences
Theatre Department, THE 120
http://pegasus.cc.ucf.edu/~theatre
theatre@ucf.edu
Joe Rusnock, 407-823-2861

Credit Hour Requirements
- 27 hours

Entrance Requirement
A successful interview and audition or portfolio review

Required Courses
- 21 hours

Required Skills
- Students must pass an oral exam for proficiency in Spanish and English before being admitted to the certificate program.

Required Courses
- 9 hours

Restricted Upper Division Electives
- 9 hours

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.

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 Courses
- Students must pass an oral exam for proficiency in Spanish and English before being admitted to the certificate program.

Required Courses
- 9 hours

Restricted Upper Division Electives
- 9 hours

Any upper division SPN or SPT course with advisor's approval

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the certificate.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the Department.
- No credit by exam (TSD, Military credit) may be used.
- Independent Study or Co-op credit cannot be used toward the certificate.
- Satisfactory completion of translation and interpretation exit exam.

URBAN AND REGIONAL PLANNING: Minor
College of Health and Public Affairs
Department of Public Administration, HPA2 238
Dr. K. Tom Liou, 407-823-2604
Fax: 407-823-5651

Credit Hour Requirements
- 21 hours

Required Courses
- 21 hours

Required Courses
- 3 hrs

Required Courses
- 3 hrs
Minors, Certificates and Study Abroad

Philosophy, Political Science, Psychology, Nursing, Social Work, Sociology and Anthropology, and Theatre.

Credit Hour Requirements

18 hours

Required Courses

(6 hrs)

WST 3015 Introduction to Women's Studies

3 hrs

Select one course from the Feminist Theory group:

PHM 3123 Feminist Theories or

LIT 4554 Advanced Feminist Theories

3 hrs

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

3 hrs

AMH 3562 Women in American History II

3 hrs

ASH 4334 Women in China

3 hrs

EUH 4610 Women in European Society

3 hrs

Representations of Women

AML 3283 Contemporary Amer. Women's Fiction

3 hrs

ARH 4458 Women and Art in 20th Cent America

3 hrs

ARH 4892 Women in Art

3 hrs

COM 4014 Gender Issues in Communication

3 hrs

FIL 3309 Women in Film

3 hrs

LIT 3383 Women in Literature

3 hrs

PHI 3022 Sexuality, Gender & Philosophy

3 hrs

Women's Wellness

NUR 4935 Women's Health Issues

3 hrs

PEM 2405 Self Defense for Women and Men

3 hrs

SOP 2772 Sexual Behavior

3 hrs

SOP 3742 Psychology of Women

3 hrs

Women and Social Policy

ANT 3302 Sex, Gender and Culture

3 hrs

ANT 4308 Women and Gender Issues in Lat Am

3 hrs

CCJ 4670 Women and Crime

3 hrs

CCJ 4681 Domestic Violence and Justice System

3 hrs

CPO 4710 Women and Comparative Politics

3 hrs

INR 4085 Women, Gender, and Globalization

3 hrs

PUP 4323 Women and Public Policy

3 hrs

SYD 2800 Sex Roles in Modern Society

3 hrs

SYO 4100 Family Trends

3 hrs

SYP 4810 Women in Contemporary Society

3 hrs

* Students may be allowed to take one course from a list of restricted courses.

Other Requirements

A minimum GPA of 2.0 is required in all courses used to satisfy the minor.

Grades 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.

No more than one 2000 level course can be used toward the minor.

WOMEN'S STUDIES: Certificate
http://www.cas.ucf.edu/womensstudies

College of Arts and Sciences

Women's Studies Program, CNH 201H
L. M. Logan, 407-823-6502,
email: womenst@ucf.edu

The certificate program in Women's Studies is designed to provide students with a basic, working knowledge of gender roles and women's issues. The certificate program is open to both degree-seeking and non degree-seeking students, but should be particularly beneficial to students in professional degree programs who will serve women and/or girls as a client population, but whose elective hours are restricted.

Credit Hour Requirements

12 hours

Required Course:

(3 hrs)

WST 3015 Introduction to Women's Studies

3 hrs

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 Apennines, 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 6/6 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 a 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.
- Apply to the program in the fifth semester of classes. See the graduate catalog for specific admission requirements
http://www.gradcatalog.ucf.edu/currentGradCatalog

All applicants must meet the following criteria:
- A GPA of 3.25 or higher after completion of 80 credit hours
- A score of 1260 on 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 programs 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 3 hrs
   ECO 2023 Microeconomics
   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
other than those required

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 residence 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 complete 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 candidates 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 requirements 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

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 nine hours of graduation each semester.

Admission Guidelines

Acceptable substitutes for Common Program Prerequisites if taken prior to transferring to UCF:
- MAC 2233 and STA 2023 may use any ECO course. However, both ECO 2013 and ECO 2023 are prerequisites for subsequent economics courses and will still need to be taken.

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.

Academic Requirements

Degree Requirements

1. UCF General Education Program

   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 Principles of Macroeconomics
   ECO 2023 Principles of Microeconomics

   *ECO 3401 Quantitative Business Tools
   
   CSS 2100C Computer Fundamentals for Business

   *At UCF, students who have completed MAC 2233 and STA 2023 will be waivered from ECO 3401. Students who have not completed both classes with a “C” (2.0) or better must take ECO 3401.

3. Common Body of Knowledge (30 hrs)

   GEB 3031 Cornerstone
   GEB 3356 Introduction to International Business
   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

   End of Program Option 6 hours

   Total Semester hours (BSBA/MAAE) 135 hours

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 undergraduate requirements of the Economics BSBA/MAAE 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.

- 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.

- Students apply for admission to the accelerated program at the end of their junior year or after 12 hours of upper-level history

- 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.

- 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

- At UCF, students who have completed MAC 2233 and STA 2023 will be waivered from ECO 3401. Students who have not completed both classes with a “C” (2.0) or better must take ECO 3401.

- Select from disciplines such as accounting, finance, management, marketing, mathematics, statistics, public administration, health sciences, political science, computer science, and environmental engineering.

- Same as MAAE

- Same as MAAE

- Courses taken toward MAAE
  
  ECO 6XXX Microeconomic Analysis
  
  ECO 6206 Aggregate Econ. Conditions & Analysis
  
  ECO 6242 Econometrics

End of Program Option

- 6 hours

- Same as MAAE

- Total Semester Hours Required
  
  - 120 hours

- Total Semester Hours Required
  
  - 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

Admission Requirements

- Same as MAAE

- Same as MAAE

- Same as MAAE

- Same as MAAE

- same as MAAE

- Same as MAAE

- Courses taken toward MAAE
  
  ECO 6XXX Microeconomic Analysis
  
  ECO 6206 Aggregate Econ. Conditions & Analysis
  
  ECO 6242 Econometrics

- End of Program Option
  
  - 6 hours

- Same as MAAE

- Total Semester Hours Required
  
  - 135 hours

- Total Semester Hours Required
  
  - 120 hours
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 the first semester of their senior year.
- After successfully completing one 5000-level course, students will be eligible to take HIS 6159 (Historiography) and another 5000-level course or the 6000-level seminar following the 5000-level colloquium they have already completed.
- Students may substitute these nine hours of graduate-level work for 9 hours of 3000- or 4000-level undergraduate courses.
- Students need to pay fees at the graduate rate for the graduate courses they take.
- Schedule for students enrolled full-time in the accelerated program:
  - Students complete nine hours of graduate-level courses their senior year.
  - Students enroll in at least three hours of graduate-level course work the summer after they receive their B.A.
  - Students enroll in nine hours of graduate-level courses in both Spring and Fall semesters during their M.A. year.
  - Students complete the Capstone course, pass their preliminary exams, and fulfill their foreign language requirement by the end of their first MA year.
  - Students complete and defend a master’s thesis in six hours.

Undergraduate Requirements
1. UCF General Education Program (36 hrs)
   (See the History major in this catalog for track specific GEP requirements)
2. Common Program Prerequisites (0 hrs)
   AMH 2010* U.S. History: 1492-1877 GEP
   AMH 2020* U.S. History: 1877-Present GEP
   *See Transfer Notes for possible substitutes
3. Core Requirements (9 hrs)
   HIS 4150 History & Historians 3 hrs
   Select one sequence: EUH 2000, 2001 Western Civilization I & II 6 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
   Students may substitute nine hours of 5000- or 6000-level course work for 3000- or 4000-level courses

5. Departmental Exit Requirements
   - Maintain a minimum GPA of 3.5 in upper division required courses attempted.
   - Submit a portfolio during the semester of graduation. The portfolio will include representative samples of the student’s written work including, but not limited to, book critiques, in-class essay exams, and term papers.
   - Students must complete at least 18 of the required 36 history hours at UCF.
   - Computer competency met by completion of the major.

6. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement.
   Graduation: 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 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

Overall History MA Requirements (36 hrs)*
* Nine hours of graduate work are earned in the senior year, in consultation with the history graduate coordinator.

1. Required Graduate Courses (12 hrs)
   HIS 6159 Historiography 3 hrs
   HIS 6905 Capstone Course 3 hrs
   HIS 6971 Thesis 6 hrs

2. Courses in Area of Concentration (18 hrs)
   Assumes that nine additional hours of graduate courses were taken during the senior year.
   (Eastern Hemisphere: African, Asian, European, or Middle Eastern; or Western Hemisphere: Caribbean, North American, or South American)

3. Outside Area of Concentration in History (6 hrs)

4. Foreign Language Requirement
   Students will also be expected to demonstrate 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)

Related Programs: Humanities
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.

LIBERAL STUDIES ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A./B.S. AND M.A./M.S.)

College of Arts and Sciences

http://www.cas.ucf.edu/mls/AcceleratedProgram/

Liberal Studies Undergraduate Program, CNH 201
Liberal Studies Advising Team, 407-823-0144
E-mail: ls@mail.ucf.edu

The accelerated Program allows outstanding Liberal Studies students to earn a B.A. or B.S. degree and a M.A./M.S. degree in as few as five years. Students earn nine hours of graduate credit toward the M.A./M.S. while still an undergraduate, and then earn an additional twenty-four credits after earning the B.A. or B.S. degree.

Graduate Degree Requirements
Students majoring in any of the Liberal Studies tracks may apply for the program. This unique course of study requires close advising with program advisors, and approval by the M.A./M.S. in Liberal Studies program.

Admission Requirements
Acceptance to the university does not constitute admission to the accelerated program. An additional application to the program must be submitted and the student accepted. Contact the Liberal Studies program for application materials. All applicants must meet the following criteria:
- A GPA of 3.25 or higher at UCF in their last 30 upper level credit hours before applying in the second semester of their junior year.
- At least 75 credit hours earned by time of application and 30 upper level credit hours by the end of the application semester. Decision about admission to the program will depend partially on the grades earned in the application semester if the 30 upper level (or 75 overall) credits were not earned previously.
- A GRE score of 1050 or above in the verbal and quantitative sections combined (usually taken in the second semester of the junior year).

Undergraduate Degree Requirements
Undergraduate degree requirements vary by track, and each track's requirements must be checked carefully in the appropriate Liberal Studies degree section.
- Students who change degree programs and select this major must adopt the most current catalog

Students must have declared a Liberal Studies major at least one semester before graduation
- Co-op or internship credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study for use in the Liberal Studies areas. Non-approved independent studies will not be counted towards the major.
- Students must earn at least a “C” (2.0) in each restricted elective course
- Students must consult with a Liberal Studies advisor in order to prepare an application
- 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

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
Transfer Notes:

Total Hours Required - B.A./B.S. + M.A./M.S. 144 hours

Options (6 hrs)
- part of the M.A./M.S. in Liberal Studies degree. See the graduate consultation with the M.A./M.S. in Liberal Studies program director.
- Nine hours of graduate work are earned in the senior year, in consultation with the M.A./M.S. in Liberal Studies program director. * 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.
(please see 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 6351 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:
- 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 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

2. Common Program Prerequisites (31 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
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<tr>
<td>SYG 2000</td>
<td>Sociology</td>
<td>3</td>
</tr>
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<td>MCB 2005C</td>
<td>Health Microbiology</td>
<td>4</td>
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<tr>
<td>CHM 1032</td>
<td>General Chemistry and lab*</td>
<td>4</td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>Human Anatomy**</td>
<td>4</td>
</tr>
<tr>
<td>PCB 3703C</td>
<td>Human Physiology**</td>
<td>4</td>
</tr>
<tr>
<td>STA 2014C or 2023</td>
<td>Principles of Statistics</td>
<td>3</td>
</tr>
<tr>
<td>SDW 3104</td>
<td>Assessing Human Development or</td>
<td></td>
</tr>
<tr>
<td>DEP 2004</td>
<td>Developmental Psychology</td>
<td>3</td>
</tr>
<tr>
<td>HUN 3011</td>
<td>Human Nutrition</td>
<td>3</td>
</tr>
</tbody>
</table>

* The first semester of a two semester general chemistry course does not meet requirement.
** May take Anatomy and Physiology sequence of six-eight total credits.

3. Core Requirements (53 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3026L</td>
<td>Thera Interv. For Health Prof.</td>
<td>1</td>
</tr>
<tr>
<td>NUR 3065</td>
<td>Health Assessment</td>
<td>3</td>
</tr>
<tr>
<td>NUR 3167</td>
<td>Accel Nursing Research Sem</td>
<td>1</td>
</tr>
<tr>
<td>NUR 3235</td>
<td>Promoting Physical &amp; Mental Health</td>
<td>5</td>
</tr>
<tr>
<td>NUR 3255L</td>
<td>Clin Pract in Prom Phys/Mental Health</td>
<td>4</td>
</tr>
<tr>
<td>NUR 3XXX</td>
<td>Accel Hllth Fam and Comm</td>
<td>5</td>
</tr>
<tr>
<td>NUR 3XXXL</td>
<td>Accelerated Clin Hllth Fam and Comm</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3825</td>
<td>Role of the Professional Nurse</td>
<td>2</td>
</tr>
<tr>
<td>NUR 3198</td>
<td>Pathophysiology &amp; Pharmacology</td>
<td>5</td>
</tr>
<tr>
<td>NUR 4525</td>
<td>Nursing Intervention in Mental Illness</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4525L</td>
<td>Clinical Practice w/ Mentally Ill Client</td>
<td>1</td>
</tr>
<tr>
<td>NUR 4695</td>
<td>Accel Comm Continuum</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4655L</td>
<td>Clinical Pract in Comm.- Orient Nrs</td>
<td>2</td>
</tr>
<tr>
<td>NUR 4745</td>
<td>Nursing Care of Clients w/Acute Ill</td>
<td>4</td>
</tr>
<tr>
<td>NUR 4745L</td>
<td>Clinical Practice in Acute Illness</td>
<td>4</td>
</tr>
<tr>
<td>NUR 4829</td>
<td>Accel Trans Leader</td>
<td>3</td>
</tr>
<tr>
<td>NUR 4945L</td>
<td>Directed Nursing Practice</td>
<td>4</td>
</tr>
<tr>
<td>NUR 4XXX</td>
<td>Nursing Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students without a research course on transcript must take NUR 3165
** Students may petition to waive elective requirement. Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course. Any variation from the above must be approved by the School of Nursing.

4. Upper Division Restricted Electives (3 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR 3XXX</td>
<td>Nursing Elective</td>
<td>3</td>
</tr>
</tbody>
</table>

* Students without a research course on transcript must take NUR 3165
** Students may petition to waive elective requirement. Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course. Any variation from the above must be approved by the School of Nursing.

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 residence 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

UCF General Education Program NA
Statistics (STA 2014C or 2023) or any Statistics course
General Chemistry (CHM 1032 or any other comprehensive chemistry course w/lab)*
Human Anatomy and Physiology I & II w/lab (BSC 2093/2094) or (BSC X085/X086)
General Microbiology (MCB 3020C) (MCB X010C) w/lab or any Microbiology course w/lab
Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course
Human Nutrition (HUN 1201) or any Human Nutrition course

* The first semester of a two semester general chemistry course does not meet requirement.

Note: A grade of “C” (2.0) or better is required in all prerequisite courses.

Honors
University Honors and Honors in the Major Available

Tentative Course Schedule

First Semester

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer</td>
<td>NUR 3825</td>
<td>2</td>
</tr>
<tr>
<td>Fall</td>
<td>NUR 3198</td>
<td>5</td>
</tr>
<tr>
<td>Fall</td>
<td>NUR 3065</td>
<td>3</td>
</tr>
<tr>
<td>Fall</td>
<td>NUR 3235</td>
<td>5</td>
</tr>
<tr>
<td>Spring</td>
<td>NUR 4745</td>
<td>4</td>
</tr>
<tr>
<td>Spring</td>
<td>NUR 4XXX</td>
<td>2</td>
</tr>
<tr>
<td>Spring</td>
<td>NUR 4525</td>
<td>2</td>
</tr>
<tr>
<td>Spring</td>
<td>NUR 4636</td>
<td>3</td>
</tr>
<tr>
<td>Summer</td>
<td>NUR 3XXX**</td>
<td>3</td>
</tr>
</tbody>
</table>

Other
* Students without a research course on transcript must take NUR 3165
** Students may petition to waive elective requirements. Some Directed Nursing Practice (NUR 4945L) placements require an elective as a concurrent course.
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.
**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 must graduate with the specific program and new A.S. in Fall 2000 or later.
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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Students must graduate with the specific program and new A.S. in Fall 2000 or later.
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 201 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2013 Macroeconomics
   ECO 2023 Microeconomics
   MAC 2233 Concepts of Calculus
   STA 2023 Statistical Methods
   CGS 2100C Computer Fundamentals for Business

3. Required for All Business Majors (30 hrs)
   First Semester in the College of Business Administration:
   GEB 3031 Cornerstone
   GEB 3356 Introduction to International Business
   BUL 3130 Legal & Ethical Environments of Business
   ECO 3411 Quantitative Business Tools II
   FIN 3403 Business Finance
   MAN 3025 Management of Organizations
   ISM 3011 Essentials of Management
   MAR 3023 Marketing
   Last Semester:
   MAN 4720 Strategic Management

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 prerequisites class.
   - 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 Financial Markets
   - Management: MAN 3420 Organizations: Theory and Behavior
   - Marketing: MAR 4156 International Marketing

6. 4000 Level Requirement:
   At least two of the second level courses must be at the 4000 level.

7. A.S. Transfer Classes
   Twelve credit hours taken under the A.S. to B.S. agreement will be counted toward the degree.

8. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after any CLEP award
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF
   - A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
   - Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

10. Electives*** (variable)
    Must be outside the College of Business

Total Semester Hours Required 132 hours

Community College Transfer Notes
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Macroeconomics, Microeconomics, Calculus, Statistics, and a computer fundamentals for business class. At UCF Business, students who have completed the calculus and statistics class will be waived from Business Quantitative Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Tools I.
Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.

- ACG X001 and X002 will substitute for ACG 2021 at UCF
- A minimum of 12 semester hours must be completed at UCF within each individual major.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

***General electives as required to reach 132 semester hours to include at least 66 semester hours outside the College of Business Administration. Economics courses in the Common Program Prerequisites and the Common Body of Knowledge count toward the 66 hours outside Business Administration.

### 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 4941 Practicum III 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:

- HFT 3313 Hospitality Physical Plant Management 3 hrs
- HFT 4343 Hospitality Facilities Planning & Design 3 hrs
- HFT 4298 Hospitality Business Consulting 3 hrs
- HFT 4473 Hotel Development Analysis 3 hrs
- HFT 3785 Management of Gaming Enterprises 3 hrs
- HFT 3807 Multi-Unit Food Service Organizations 3 hrs
- HUN 3013 Nutrition Concepts & Issues in Food Service 3 hrs
- HFT 4861 Beverage Management 3 hrs
- HFT 3124 Supply and Procurement Management 3 hrs
- FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
- FSS 3232C Intermediate Techniques of Food Production 3 hrs
- HFT 4286C Catering and Banquet Organization 3 hrs
- HFT 4753 Convention & Conference Services 3 hrs
- HFT 4754 Exhibit & Trade Show Operations 3 hrs
- HFT 4735 Tourism Geography 3 hrs
- HFT 4722 Travel Agency Management 3 hrs
- HFT 4762 Current Practices in the Airline Industry 3 hrs
- HFT 4275 Vacation Ownership Resort Development 3 hrs
- HFT 4462 Hospitality Industry Finance 3 hrs
- HFT 3741 Meeting Management 3 hrs
- HFT 3757 Event Management 3 hrs
- HFT 4266 Restaurant Brand Management 3 hrs
- HFT 4268 Case Studies in Multi-Unit Restaurant Management 3 hrs
- HFT 4844 Sanitation Mgmt in Foodservice Industry 3 hrs
- HFT 4274 Vacation Ownership Resort Management 3 hrs
- HFT 4522 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
- HFT 4442 Vacation Ownership Resort Reservations/Data Base Systems 3 hrs
- HFT 4759 Product Development in Theme Parks and Attractions 3 hrs
- HFT 4532 Managing the Employee Experience in Theme Parks and Attractions Industry 3 hrs
- HFT 4269 Case Studies in Multi-Unit Restaurant Mgmt 3 hrs
- HFT 4453 Food, Beverage and Labor Cost Controls 3 hrs
- HFT 4432 Hospitality Industry Auditing 3 hrs
- HFT 4413 Technology Applications for Management Decision Making 3 hrs
- HFT 4XXX Hospitality Communications 3 hrs
- HFT 4XXX Hotel Operations 3 hrs
- FSS 3003 Culture and Cuisine 3 hrs
- HFT 3784 Amusement Technology 3 hrs
- HFT 3802 Catering Management 3 hrs
- HFT 3770 Cruise Line Operations and Management 3 hrs
- HFT 3574 Food Service Marketing Advertising and Promotion Management 3 hrs
- HFT 3654 Franchising in the Restaurant Management 3 hrs
- HFT 3XXX Law and Restraint Management 3 hrs
- HFT 3374 Multi Media Applications in Exhibitions 3 hrs
- HFT 3834 Topics in Restaurnt and Foodservice Mgt 3 hrs
- HFT 3465 Advanced Trade Show Management 3 hrs
- HFT 4864 Anheuser Busch Seminar in Quality 3 hrs
- HFT 3384 Brewing and Fine Beer 3 hrs
- HFT 4XXX Contemporary Issues in Lodging Operations 3 hrs
- HFT 4425 Financial Analysis for Restaurant Managers 3 hrs
- HFT 4786 Managing the Guest Experience in Theme Parks and Attractions 3 hrs
- HFT 4787 Operational Issues in the Theme Park and Attraction Industry 3 hrs
- HFT 4281 Restaurant Leadership Strategies and Tactics 3 hrs
- HFT 4645 Restaurant Real Estate, Site Selection and Modeling 3 hrs
- HFT 4277 Yacht, Country, and City Club Management 3 hrs

#### B. Convention/Conference Management Track (18 hrs)

- HFT 4753 Convention and Conferences Services 3 hrs
- HFT 4754 Exhibit and Trade Show Operations 3 hrs
- HFT 3802 Catering Management 3 hrs
- HFT 3741 Meeting Management 3 hrs
- HFT 3757 Event Management 3 hrs

#### C. Food Service and Restaurant Operations Management Track (18 hrs)

- HFT 3807 Multi-Unit Food Service Organizations 3 hrs
- HFT 4266 Restaurant Brand Management 3 hrs
- HFT 4844 Sanitation Mgmt in Foodservice Industry 3 hrs
- HFT 4861 Beverage Management 3 hrs
- FSS 3124 Supply and Procurement Management 3 hrs
- FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
- HFT 4268 Case Studies in Multi-Unit Restaurant Management 3 hrs
- HFT 4343 Hospitality Facilities Planning & Design 3 hrs
- HFT 4298 Hospitality Business Consulting 3 hrs
- HFT 4473 Hotel Development Analysis 3 hrs
- HFT 3785 Management of Gaming Enterprises 3 hrs
- HFT 3807 Multi-Unit Food Service Organizations 3 hrs
- HUN 3013 Nutrition Concepts & Issues in Food Service 3 hrs
- HFT 4861 Beverage Management 3 hrs
- HFT 3124 Supply and Procurement Management 3 hrs
- FSS 4135 Corporate Contract & Managed Services Orgs 3 hrs
Articulated A.S. To B.S. Programs

FSS 323C  Intermediate Techniques of Food Production
FSS 4286C Catering and Banquet Organization
HUN 3013 Nutrition Concepts & Issues in Food Svc
HFT 4343 Hospitality Facilities Planning & Design
HFT 4269 Case Studies in Multi-Unit Restaurant Management

D. Vacation Ownership Resort Management Track (18 hrs)
HFT 4275 Vacation Ownership Resort Development 3 hrs
HFT 4274 Vacation Ownership Resort Management 3 hrs
HFT 4522 Vacation Ownership Resort Sales Tactics and Strategies 3 hrs
HFT 4442 Vacation Ownership Resort Reservations/Data Base Systems 3 hrs
HFT 4343 Hospitality Facilities Planning & Design 3 hrs
HFT 4462 Hospitality Financial Management 3 hrs

E. Theme Park and Attraction Management Track (18 hrs)
HFT 4786 Managing the Guest Experience in Theme Parks and Attractions 3 hrs
HFT 4759 Product Development in Theme Parks and Attractions 3 hrs
HFT 4758 Contemporary Issues in the Theme Park and Attraction Industry 3 hrs
HFT 4532 Managing the Employee Experience in Theme Parks and Attractions Industry 3 hrs
HFT 4787 Operational Issues in the Theme Park and Attraction Industry 3 hrs
HFT 3757 Event Management 3 hrs

F. Tourism Management Track (18 hrs)
HFT 4735 Tourism Geography 3 hrs
HFT 4722 Travel Agency Management 3 hrs
HFT 4762 Current Practices in the Airline Industry 3 hrs
HFT 4754 Exhibit & Trade Show Operations 3 hrs
HFT 3757 Event Management 3 hrs
Plus one course from the Generalist Track (A) 3 hrs

G. Lodging Management Track (18 hrs)
HFT 4733 Hospitality Physical Plant Management 3 hrs
HFT 4343 Hospitality Facilities Planning & Design 3 hrs
HFT 4473 Hotel Development Analysis 3 hrs
HFT 4753 Convention & Conference Services 3 hrs
HFT 4462 Hospitality Financial Management 3 hrs
HFT 4XXX Contemporary Issues in Lodging Operations 3 hrs

H. Hospitality Financial Management and Technology
HFT 4442 Vacation Ownership Resort Reservations/Data Base Systems 3 hrs
HFT 4462 Hospitality Industry Finance 3 hrs
HFT 4473 Hotel Development Analysis 3 hrs
HFT 4453 Food, Beverage and Labor Cost Controls 3 hrs
HFT 4432 Hospitality Industry Auditing 3 hrs
HFT 4413 Technology Applications for Management Decision Making 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
- 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

- 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)

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 (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
   (3 hrs taken in AS degree program)
C. Mathematical Foundations 6 hrs
   (completed in AS degree program)
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Engineering Technology Core Courses (26 hrs)
ETI 3651C 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 4485 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

262 UNIVERSITY OF CENTRAL FLORIDA 2003-2004 Undergraduate Catalog
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.

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 UCF Departmental Residency Requirements consisting of at least 32 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.

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.

6. Departmental Exit Requirements
- none

7. Foreign Language Requirements
- 0-8 hrs

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)

Degree Requirements
- Students who change degree programs and select this major 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

Degree Requirements

1. UCF General Education Program
- 36 hrs

2. Common Program Prerequisites
- 0 hrs

3. AS Required Courses:
- 49 hrs

Arbitrated 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:

A. Communication Foundations
   - ENC 1101 Composition I AS
   - ENC 1102 Composition II AS
   - SPC 2600* Speech AS

B. Cultural and Historical Foundations
   - A year sequence in AH, EU, HUM, or WOH
   - ARH 1000* Art Appreciation AS
   (Students may substitute ARH 2005 or ARH 2050)

C. Mathematical Foundations
   - MAC 1105 College Algebra AS
   - Computer Science or Statistics

D. Social Foundations
   - Political Science or Economics
   - Psychology or Sociology

E. Science Foundation
   - Physical Science
   - Life Science

2. Common Program Prerequisites
- 0 hrs

(Excluding those required as part of the A.S. degree program in Photography, 2002-2003 catalog. Students graduating under different catalogs may substitute equivalent courses)

3. AS Required Courses
- 49 hrs

Students must earn at least a "C" in each required course and maintain an appropriate plan of study.

(Continued as in the A.S. degree program in Photography, 2002-2003 catalog. Students graduating under different catalogs may substitute equivalent courses)

Articulated A.S. To B.S. Programs
Articulated A.S. To B.S. Programs

PGY 2216  Location Photography  4 hrs
PGY 2990  Applied Photography  4 hrs

4. Upper Division Required Courses  (36 hrs)
ARH 3710  History of Photography I  3 hrs
ARH 3711  History of Photography II  3 hrs
ARH 3820  Visual Arts Administration Vitas  3 hrs
COM 4014  Gender issues in Communication or COM 4163  Interculature Communication  3 hrs
ENC 3250  Professional Writing  3 hrs
IDS 3687C  Digital Imagery  3 hrs
PGY 3610C  Photjoournalism I  3 hrs
PGY 3640C  Photjoournalism II  3 hrs
PGY 4420C  Advanced Photography  3 hrs
PGY 4420C  Advanced Photography (repeat for credit)  3 hrs
PGY 4440C  Special Problems in Photography  3 hrs
PGY 4941  Internship  3 hrs

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

- SPC 2600* May substitute SPC 1600 or SPC 1060
- ARH 1000* May substitute ARH 2005 or ARH 2050
- GRA 1741* May substitute GRA 2111C
- GRA 1800* May substitute GRA 2140C
- PGY 1401* May substitute PGY 2401

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/

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)

- PSY 2012  General Psychology**  GEP
- SYG 2000  Sociology**  3 hrs
- MCB 2005C  Health Microbiology  4 hrs
- CHM 1032/L  General Chemistry and Lab**  GEP
- ZOO 3733C  Human Anatomy*  4 hrs
- PCB 3702C  Human Physiology*  4 hrs
- STA 2014C  Principles of Statistics**  GEP
- SOW 3104  Assessing Human Development or DEP 2004  Developmental Psychology  3 hrs
- HUN 3011  Human Nutrition  3 hrs

* May take Anatomy and Physiology sequence of six-eight total credits;
** Also meets General Education Requirements;
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 3185  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  20 hrs

4. Restricted 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 proficiency exam) prior to graduation.
Graduation: none

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, 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 3808: 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 4945L and NUR 4636L:
- Complete NUR 4084
Prior to NUR 4945L:
- Complete NUR 4636 and NUR 4636L or as a co-requisite with NUR 4945L

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.cohpa.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 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)
A. Communication Foundations
   - Select ENC 1102, SPC 1600
B. Cultural Historical Foundations
   - 6 hrs
C. Mathematical Foundations
   - 0 hrs
D. Social Foundations
   - MAC 1105 (Completed at CC)
   - STA 2023 (Core Requirement)
E. Science Foundations
   - Select PHY 2053C
   - Select BSC 2010C
Note: PHY 2053L must be taken as a corequisite to PHY 2053C

2. Common Program Prerequisites
- CGS 1060C Introduction to Computer Science
- PCB 3703C Human Physiology
- PHY 2053C College Physics I
- PHY 2054C College Physics II
- ZOO 3733C Human Anatomy
- MAC 1105 College Algebra
- STA 2023 Statistical Methods I
- STA 2023C Statistical Methods II
- HSC 3640 Health Law
- HSC 4550 Pathophysiologic Mechanisms
- RTE 3308 Medical Physics
- RTE 3418C Principles of Radiographic Exposure I
- RTE 3457C Principles of Radiographic Exposure II
- RTE 3503C Radiographic Procedures I
- RTE 3513C Radiographic Procedures II
- RTE 3513C Radiographic Procedures II
- RTE 3564C Physics of Image Production
- RTE 3782 Pathophysiology
- STA 2023C Statistical Methods II
- HSC 4550 Pathophysiologic Mechanisms

3. Core Requirements (33 hrs)
- Junior Level
  - RTE 3000 Introduction to Radiologic Sciences
  - RTE 3111C Introduction to Patient Care
  - RTE 3030C Radiographic Procedures I
  - RTE 316 Advanced Patient Care
  - RTE 3418C Principles of Radiographic Exposure I
  - RTE 3840 Clinical Education I
  - RTE 3513C Radiographic Procedures II
  - RTE 3457C Principles of Radiographic Exposure II
  - RTE 3503C Radiographic Procedures I
  - RTE 3564C Physics of Image Production
  - HSC 3640 Health Law
  - HSC 4550 Pathophysiologic Mechanisms
- Senior Level
  - RTE 4563 Special Radiographic Procedures
  - RTE 4782 Pathophysiologic Mechanisms
  - RTE 4814L Clinical Education II
  - RTE 4824L Clinical Education III
  - RTE 4473 Advanced Imaging Modalities
  - RTE 4934 Clinical Education IV
  - RTE 4385 Radiobiology
  - RTE 4844 Clinical Education V
  - RTE 4473 Quality Improvement
  - RTE 4762 Anatomy for the Medical Imager
  - RTE 4206 Leadership in Radiologic Sciences
  - RTE 4854 Advanced Clinical Practicum

* See Transfer Notes
### Articulated A.S. To B.S. Programs

#### 4. Upper Division Restricted Electives:

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTE 4209</td>
<td>Radiological Adm. Practice</td>
<td>2 hrs</td>
</tr>
<tr>
<td>RTE 4903</td>
<td>Directed Study Radiologic Education</td>
<td>2 hrs</td>
</tr>
</tbody>
</table>

Core course requirements will include PHY 2054C. Additional core course requirements will be determined during advisement.

#### 5. Program Exit Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A minimum overall GPA of 2.50 and a minimum grade of &quot;C&quot; (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program.</td>
<td></td>
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</tbody>
</table>

#### 6. Electives

<table>
<thead>
<tr>
<th>Requirement</th>
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</thead>
<tbody>
<tr>
<td>none</td>
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</tbody>
</table>

#### 7. Foreign Language Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>(0-8 hrs) 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.</td>
</tr>
</tbody>
</table>

Graduation: none

#### 8. University Minimum Exit Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>An overall GPA of 2.5</td>
</tr>
<tr>
<td>60 semester hours earned after CLEP awarded</td>
</tr>
<tr>
<td>48 semester hours of upper division credit completed</td>
</tr>
<tr>
<td>30 of the last 36 hours of course work must be completed in residence at UCF</td>
</tr>
<tr>
<td>A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted</td>
</tr>
<tr>
<td>Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)</td>
</tr>
</tbody>
</table>

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 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

- **Communication Foundations**
  - ENC 1101 Composition I 3 hrs
  - ENC 1102 Composition II 3 hrs
  - SPC 1600 Fundamentals of Oral Comm 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
  - STA 1060C Basic Stat using Microsoft Excel or STA 2014C Principles of Statistics 3 hrs
- **D. Social Foundations**
  - POS 2041 American National Government 3 hrs
  - PSY 212 General Psychology 3 hrs
  - PSY 2122 Social Psychology (6 hrs)
  - E. Science Foundations
    - STA 2024 Physical Science 3 hrs
    - BSC 2010C General Biology 4 hrs
- **2. Sports and Fitness Lower Division**
  - PET 2622C Human Anatomy 3 hrs
  - ZOO 3720C Exercise Physiology 4 hrs
- **3. Lower Division Electives**
  - **(7 Hours)**
  - Selected Electives (Prefixes: PEL, PEM, PEO, PET)

#### 4. Physical Education Common Courses

- **(9 Hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>PET 4312</td>
<td>Biomechanics</td>
</tr>
<tr>
<td>PET 4550</td>
<td>Fitness Assessment and Exercise</td>
</tr>
<tr>
<td>PET 4401</td>
<td>Administration &amp; Evaluation</td>
</tr>
</tbody>
</table>

#### 5. Fitness & Sports Core

- **(18 Hours)**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 3137</td>
<td>Concepts and Practices in Sports and Fitness</td>
</tr>
<tr>
<td>PET 3493</td>
<td>Sports and Ethics</td>
</tr>
<tr>
<td>PET 3408</td>
<td>Public Relations in Sports and Fitness</td>
</tr>
<tr>
<td>PET 3462</td>
<td>Fiscal and Facilities Issues in Sports and Fitness</td>
</tr>
</tbody>
</table>
The University course numbering system is as follows:

### COMMON COURSE NUMBERING SYSTEM

#### Classification of Courses

The University course numbering system is as follows:

- **0-999**: Sub collegiate 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...
Common Course Numbering System

<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>
</thead>
<tbody>
<tr>
<td>SYG</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>No lab code this course</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Sociology, General</th>
<th>Freshman level</th>
<th>Entry-level</th>
<th>Decade Digit</th>
<th>Unit Digit</th>
<th>Laboratory course</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>level at this institution</td>
<td>General Sociology</td>
<td>Survey Course</td>
<td>Social Problems</td>
<td>component in this course</td>
</tr>
</tbody>
</table>

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. A student who has successfully completed SYG 1010 at the community college is guaranteed to receive transfer credit for SYG 2010 at the state university if the student transfers. The student cannot be required to take SYG 2010 again since SYG 1010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed which have not been designated as equivalent.

**The Course Prefix**
The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

**Authority for Acceptance of Equivalent Courses**
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>
</tr>
</thead>
<tbody>
<tr>
<td>ABE</td>
<td>Agricultural and Biological Engineering</td>
<td>CHW</td>
<td>Chinese Literature (Writings)</td>
</tr>
<tr>
<td>ABT</td>
<td>Arabic in Translation and/or Translations Skills</td>
<td>CS</td>
<td>Computer Science and Information Systems</td>
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<tr>
<td>ACB</td>
<td>Accounting: General</td>
<td>CJB</td>
<td>College Level Application in Criminal Justice</td>
</tr>
<tr>
<td>ACO</td>
<td>Accounting: Occupational/Technical Variable Paced</td>
<td>CJC</td>
<td>Corrections</td>
</tr>
<tr>
<td>ACR</td>
<td>HVACR: Heating/Ventilation/AC/Refrigeration: Tech/Trades</td>
<td>CJD</td>
<td>Criminal Justice Development</td>
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<tr>
<td>ADE</td>
<td>Adult Education</td>
<td>CJE</td>
<td>Law Enforcement</td>
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<td>ADV</td>
<td>Advertising</td>
<td>CJJ</td>
<td>Juvenile Justice</td>
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<td>Agricultural Economics and Business</td>
<td>CJK</td>
<td>Criminal Justice Basic Training (A.A.S or Vocational)</td>
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<tr>
<td>AEE</td>
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<td>CJL</td>
<td>Law and Process</td>
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<tr>
<td>AER</td>
<td>Automotive Mechanics</td>
<td>CJT</td>
<td>Criminal Justice Technologies</td>
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<tr>
<td>APA</td>
<td>Afro-American Studies</td>
<td>CLA</td>
<td>Clinical and Ancient Studies</td>
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<tr>
<td>APM</td>
<td>African History</td>
<td>CLP</td>
<td>Clinical Psychology</td>
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<td>AFR</td>
<td>Aerospace Studies</td>
<td>CLT</td>
<td>Classical Literature in Translation</td>
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<td>APS</td>
<td>African Studies</td>
<td>CMC</td>
<td>Corporate Media Communication</td>
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<td>AGE</td>
<td>Agricultural Engineering</td>
<td>CNT</td>
<td>Computer Networks</td>
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<td>COA</td>
<td>Home Economics: Consumer Affairs</td>
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<td>Agronomy</td>
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<td>Cooperative Education</td>
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<td>Akan</td>
<td>COM</td>
<td>Communication</td>
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<td>Agriculture and Life Sciences</td>
<td>COP</td>
<td>Computer Programming</td>
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<td>American History</td>
<td>COS</td>
<td>Cosmetology</td>
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<td>AML</td>
<td>American Literature</td>
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<td>Computing Theory</td>
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<td>AMS</td>
<td>American Studies</td>
<td>CPS</td>
<td>Comparative Policy Studies (Multinational)</td>
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<td>AMT</td>
<td>Aviation Maintenance Technology</td>
<td>CRW</td>
<td>Creative Writing</td>
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<td>ANG</td>
<td>Anthropology: Graduate</td>
<td>CSP</td>
<td>Cosmology-Specialized</td>
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<td>ANS</td>
<td>Animal Science</td>
<td>CST</td>
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<td>ANT</td>
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<td>Czech Literature (Writings)</td>
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<td>Dance, Emphasis on Activity</td>
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<td>Art History</td>
<td>DAE</td>
<td>Dance Education</td>
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<td>ARR</td>
<td>Autobody Repair and Refinishing</td>
<td>DAN</td>
<td>Dance</td>
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<td>Art</td>
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<td>Demography</td>
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<td>DEN</td>
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<td>DEX</td>
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<td>Dietetics</td>
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<tr>
<td>ATF</td>
<td>Aviation Technology: Flight</td>
<td>DIM</td>
<td>Diesel Mechanics</td>
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<td>ATT</td>
<td>Aviation Technology: Theory</td>
<td>DIT</td>
<td>Dental Laboratory Technology</td>
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<td>DUT</td>
<td>Dutch Language</td>
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<td>EAB</td>
<td>Experimental Analysis of Behavior</td>
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<td>EAP</td>
<td>English for Academic Purposes</td>
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<td>Building Construction Apprenticeships</td>
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<td>Basic Clinical Clerkships (Required)</td>
<td>ECM</td>
<td>Engineering: Computer Math</td>
</tr>
<tr>
<td>BCC</td>
<td>Basic Clinical Clerkships (Required)</td>
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<td>Economics</td>
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<tr>
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<td>Economic Problems &amp; Policy</td>
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<td>Economic Systems &amp; Development</td>
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<td>Education Supervision</td>
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<td>Business Management Courses</td>
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<td>BCM</td>
<td>Comparative Psychology and Animal Behavior</td>
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<td>Education: Emotional Disorders</td>
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<td>BCI</td>
<td>Civil Construction Engineering</td>
<td>EEL</td>
<td>Engineering: Electrical</td>
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<td>Electrical/Electronics Repair</td>
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<td>EEV</td>
<td>Electrical/Electronic Vocational</td>
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<td>Civil Engineering Structures</td>
<td>EEX</td>
<td>Education: Exceptional Child- Core Competencies</td>
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<td>EGS</td>
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<td>Chiropractic</td>
<td>EHD</td>
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<td>CHT</td>
<td>Chinese Literature in Translation</td>
<td>EIN</td>
<td>Industrial Engineering</td>
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</table>

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### Alphabetical Listing Of Prefixes

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Prefix Title</th>
<th>Prefix</th>
<th>Prefix Title</th>
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<tbody>
<tr>
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<td>Education: Industrial/Vocational</td>
<td>HEV</td>
<td>Home Economics- Vocational</td>
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<td>ELD</td>
<td>Education: Specific Learning Disabilities</td>
<td>HFT</td>
<td>Hospitality Management</td>
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<td>ELR</td>
<td>Electrical Laboratories and Related Areas</td>
<td>HHD</td>
<td>Housing &amp; Home Design</td>
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<td>EMA</td>
<td>Materials Engineering</td>
<td>HIM</td>
<td>Health Information Management</td>
</tr>
<tr>
<td>EMC</td>
<td>Engineering: Mechanical &amp; Chemical</td>
<td>HIS</td>
<td>General History and Historiography</td>
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<tr>
<td>EME</td>
<td>Education: Technology and Media</td>
<td>HLE</td>
<td>Health, Leisure, and Physical Education</td>
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<tr>
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<td>Engineering: Mechanical</td>
<td>HME</td>
<td>Home Economics: Home Management and Equipment</td>
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<td>Education: Mental Retardation</td>
<td>HMV</td>
<td>Hospitality Management, Vocational</td>
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<td>Emergency Medical Services</td>
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<td>Modern Hebrew Literature (Writings)</td>
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<td>Humanities</td>
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<td>Entomology</td>
<td>HUN</td>
<td>Human Nutrition</td>
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<td>Ocean Engineering</td>
<td>HUS</td>
<td>Human Services</td>
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<td>Education: Physical &amp; Multiple Handicapped</td>
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<td>International Construction Management</td>
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<td>Earth Science</td>
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<td>Education: Secondary</td>
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<td>Interdisciplinary Honors</td>
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<td>Interdisciplinary Health Sciences</td>
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<td>IND</td>
<td>Interior Design</td>
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<td>Engineering Technology: Drafting</td>
<td>INP</td>
<td>Industrial and Applied Psychology</td>
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<td>INR</td>
<td>International Relations</td>
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<td>Engineering Technology: Industrial</td>
<td>IPM</td>
<td>Integrated Pest Management</td>
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<td>Interdisciplinary Sciences</td>
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<td>Electroencephalographic Technology</td>
<td>ISM</td>
<td>Information Systems Management</td>
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<td>Interdisciplinary Social Sciences</td>
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<td>European Studies</td>
<td>ITA</td>
<td>Italian Language</td>
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<td>EVI</td>
<td>Education: Visually Impaired- Blind</td>
<td>ITT I</td>
<td>Italian Literature in Translation</td>
</tr>
<tr>
<td>EVR</td>
<td>Environmental Studies</td>
<td>ITW</td>
<td>Italian Literature (Writings)</td>
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<td>Experimental Psychology</td>
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<tr>
<td>FAD</td>
<td>Home Economics: Family Development</td>
<td>JPW</td>
<td>Japanese Literature (Writings)</td>
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<tr>
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<td>Fashion Modeling</td>
<td>JST</td>
<td>Jewish/Judaic Studies</td>
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<td>Fishery &amp; Aquacultural Science</td>
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<td>Korean Language and Literature</td>
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<td>Fire and Emergency Services</td>
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<td>Landscape Architecture</td>
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<td>Fire Fighting &amp; Protection</td>
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<td>Language Arts and English Education</td>
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<td>Film</td>
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<td>Latin American Studies</td>
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<td>French Literature (Writings)</td>
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<td>Food Service Systems</td>
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<td>FVC</td>
<td>Family, Youth, and Community</td>
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<td>Management</td>
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<td>Golf Course Operations</td>
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<td>Geography: Regional Areas</td>
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<td>Primary Care of Older Adults</td>
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<td>GMW</td>
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<td>MHP</td>
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<td>Modern Hebrew in Translation</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 ECS-CEE 3(2,3)
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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<th>College/ School</th>
<th>Department</th>
<th>Abbreviation</th>
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<td>Engineering Technology</td>
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<td>ECS</td>
<td>Industrial &amp; Management</td>
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<td>Educational Studies</td>
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<td>Instructional Programs</td>
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<td>Criminal Justice &amp; Legal Studies</td>
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<td>Health &amp; Public Affairs</td>
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<td>Molecular &amp; Microbiology</td>
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<td>HPA</td>
<td>Social Work</td>
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</tbody>
</table>

2003-2004 Undergraduate Catalog
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.

AGC 2021 BA-ACCT 3(3,0)

AGC 2021H BA-ACCT 3(3,0)

AGC 2071 BA-ACCT 3(3,0)
Principles of Managerial Accounting: PR: AGC 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.

AGC 3101 BA-ACCT 3(3,1)

AGC 3111 BA-ACCT 3(3,0)
Intermediate Financial Accounting II: PR: AGC 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.

AGC 3131 BA-ACCT 3(3,0)
Financial Accounting Concepts and Analysis: PR: Junior Standing and AGC 2021, AGC 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.

AGC 3141 BA-ACCT 3(3,0)

AGC 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.

AGC 3361 BA-ACCT 3(3,0)
Cost Accounting I: PR: Junior standing, and MAC 1105, ECO 2013, ECO 2023, and AGC 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.

AGC 3501 BA-ACCT 3(3,0)
Financial Accounting for Governmental and Nonprofit Organizations: PR: A grade of “C” or better in AGC 2071. Application of the application of financial and managerial accounting, and auditing for governmental, and nonprofit organizations.

AGC 4252 BA-FIN 3(3,0)

AGC 4401 BA-ACCT 3(3,1)
Accounting Information Systems: PR: AGC 3101 and CGS 2100C, with a grade of “C” or better. An introduction to manual and computer-based accounting information systems.

AGC 4651 BA-ACCT 3(3,0)
Auditing: PR: AGC 3111 and AGC 4401 with a grade of “C” or better. The standards, practices, and procedures followed in the audit function.

AGC 4671 BA-ACCT 3(3,0)
Internal Auditing: PR: AGC 3XXX (Financial Accounting Concepts & Analysis) or AGC 3361. Theory and practice of internal auditing and the use of internal auditing in organizational control.

AGC 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.

AGC 5205 BA-ACCT 3(3,0)
Advanced Financial Accounting Topics: PR: AGC 3111 with a grade of “C” or better. Accounting for negotiation and the preparation of consolidated financial statements. Accounting issues related to foreign operations. Also includes a study of current reporting topics.

AGC 5206 BA-ACCT 3(3,0)

AGC 5346 BA-ACCT 3(3,0)
Advanced Managerial Accounting: PR: AGC 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.

AGC 5405 BA-ACCT 3(3,0)

AGC 5506 BA-ACCT 3(3,0)
Accounting for Governmental and Non-Business Organizations: PR: AGC 3501, AGC 3111 and acceptance for graduate study. Study of problems and methods of applying managerial accounting concepts in a nonprofit environment.

AGC 5517 BA-ACCT 3(3,0)
Financial Accounting and Auditing for Governmental and Nonprofit Organizations: PR: AGC 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.

AGC 5625 BA-ACCT 3(3,0)
Auditing and EDP: PR: Acceptance for graduate study, AGC 3111, AGC 4401, and AGC 4651. An examination of auditing procedures followed when a company uses a computer to process financial records.

ADE 4382 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 3104 AS-AAS 3(3,0)

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 4105 AS-AAS 3(3,0)

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.
AFH 3200 AS-AAS 3(3,0) African History Since 1870: PR: C.I. Sub-Saharan African history from 1870 to the present.

AFH 5806 AS-HIST 3(3,0) The Historiography of Slavery in Africa: PR: Graduate status or C.I. Course covers the central issues and controversies in the historiography of slavery in Africa.

AFR 1101 ECS-AFROTC 1(1,2) The Air Force Today I: History, mission, organization, and doctrine of the United States Air Force and a study of U.S. Strategic Offensive and Defensive Forces.

AFR 1111 ECS-AFROTC 1(1,2) The Air Force Today II: A brief review of the Army, Navy, and Marine force. An introduction to special operations and counterinsurgency.

AFR 2130 ECS-AFROTC 1(1,2) The Development of Air Power I: A study of the development of air power from experiments by 18th-century balloonists to the achievement of combat air power capabilities during World War II.

AFR 2131 ECS-AFROTC 1(1,2) The Development of Air Power II: A study of the development of aerospace capabilities since World War II, highlighting technological advancements and the role of aerospace power in the contemporary world.

AFR 3220 ECS-AFROTC 3(3,2) Air Force Leadership and Management I: An introductory study of Air Force management fundamentals, communications skills, and basic leadership styles.

AFR 3230 ECS-AFROTC 3(3,2) Air Force Evaluation and Management II: A completion study of Air Force management fundamentals, including performance evaluation skills.


AMH 2010 AS-HIST 3(3,0) U.S. History: 1492-1877: Survey of U.S. History from 1492 to 1877.


AMH 3370 AS-HIST 3(3,0) American Economic History: PR: AMH 2010 and AMH 2020, or C.I. An introduction to the economic development of the U.S., with emphasis on agriculture, labor, industrialization, transportation, and banking.

AMH 3402 AS-HIST 3(3,0) History of the South to 1865: PR: AMH 2010 or AMH 2020 or C.I. Development of the southern colonies, beginning sectionalism, the cotton economy, and slavery. Calhoun's constitutional theories, secession, Civil War and its aftermath.

AMH 3403 AS-HIST 3(3,0) History of the South Since 1865: PR: AMH 2010 and 2020, or C.I. Reconstruction, the "solid South" and the racial dilemma, progressivism for whites only, southern literature, 20th-century economic, political and social changes, and the new Reconstruction.

AMH 3421 AS-HIST 3(3,0) History of Florida to 1845: PR: AMH 2010 and 2020 or C.I.

AMH 3423 AS-HIST 3(3,0) Florida History 1845-Present: PR: AMH 2010 and 2020 or C.I.

AMH 3441 AS-HIST 3(3,0) History of the Frontier: Eastern America: PR: AMH 2010 and AMH 2020 or C.I. The progression of the westward movement from the colonial settlements to the Mississippi, considered as an interpretive approach to American history.

AMH 3442 AS-HIST 3(3,0) History of the Frontier: Western America: PR: AMH 2010 and 2020 or C.I. The development of the trans-Mississippi West and its impact upon American history.

AMH 3540 AS-HIST 3(3,0) Military History: A survey of U.S. military history from the European background of the colonial period through the contemporary military experience.


AMH 3562 AS-HIST 3(3,0) Women in American History II: PR: AMH 2010, AMH 2020 or C.I. Examines industrialization, enfranchisement of women into higher education and professions, winning of suffrage, changing profile of female wage earner, and rise of modern feminist movement.


AMH 3586 AS-HIST 3(3,0) History of the Hispanic Minorities in the U.S.: Course begins with 16th century through the modern period. Special emphasis on Chicanos, Puerto Ricans, and Cubans.

AMH 3610 AS-HIST 3(3,0) Sport in America: History of sport from colonial times to present. Emphasis on social and economic development, intercollegiate and professional sport, and changing attitudes toward work, sport, and play.

AMH 3800 AS-HIST 3(3,0) Canadian History: Canada since Colonial times and the present, but with emphasis on the period since the British North America Act, 1867.

AMH 4110 AS-HIST 3(3,0) Colonial America, 1607-1763: PR: AMH 2010 and 2020 or C.I. The voyages of discovery, the origins of the thirteen colonies, and their political, economic, social, and religious life in the 17th and 18th centuries.

AMH 4112 AS-HIST 3(3,0) The Atlantic World: PR: C.I. The impact and transforming effect of the Atlantic System on the peoples of Western Europe, Western Africa, the Caribbean and the Americas.

AMH 4130 AS-HIST 3(3,0) The Age of the American Revolution, 1763-1789: PR: AMH 2010 and 2020 or C.I. The American Revolution - its origins, course, and impact upon American society - the Articles of Confederation, the Philadelphia Convention and its work.

AMH 4140 AS-HIST 3(3,0) Jeffersonian America: PR: AMH 2010 and 2020 or C.I. The Confederation era, the Federalists, Jeffersonian Democracy, and the War of 1812.

AMH 4160 AS-HIST 3(3,0) Jacksonian America: PR: AMH 2010 and 2020 or C.I. The risk of American nationalism, Jacksonian Democracy, the Mexican War, and sectional conflict.

AMH 4170 AS-HIST 3(3,0) Civil War and Reconstruction: PR: AMH 2010 and 2020 or C.I. Reconstruction, and impact of industrialism.

AMH 4201 AS-HIST 3(3,0) The Gilded Age and Progressivism: PR: AMH 2010 and 2020 or C.I. The rise of Industrialized and Urbanized America, the emergence of the New South and the New West, the Populist Movement, overseas expansion, Progressivism.

AMH 4231 AS-HIST 3(3,0) United States History: 1914-1939: PR: AMH 2010 and 2020 or C.I. The progressive reforms of Woodrow Wilson, World War I, post-war prosperity, the Depression, the New Deal, and the coming of World War II.

AMH 4270 AS-HIST 3(3,0) United States History: 1939-1960: PR: AMH 2010 and 2020 or C.I. World War II, the Cold War and America in the fifties.

AMH 4273 AS-HIST 3(3,0) U.S. History Since 1960: PR: AMH 2010 and AMH 2020 or C.I. Civil rights and women's Liberation Movements, Vietnam War, Watergate, the decline of liberalism and the rise of conservatism, end of the Cold War.

AMH 4311 AS-HIST 3(3,0) American Culture I: PR: AMH 2010 and 2020 or C.I. The European Backgrounds: Puritanism, Enlightenment; the Great Awakening; Revolutionary Thought: Romanticism; the Southern Mind and the Yankee Response; Popular Culture and the rise of recreation.

AMH 4313 AS-HIST 3(3,0) American Culture II: PR: AMH 2010 and 2020 or C.I. The Darwinian Revolution; revolt of the intellectuals; the media explosion; mass entertainment in mass culture; the loss of community; the nuclear age, and pre-sensticism.

AMH 4510 AS-HIST 3(3,0) Rise of the United States to World Power, 1778-1914: PR: AMH 2010 and 2020 or C.I. The evolution of basic American policies. American expansion, America's major wars, and the emergence of America as a world power.

AMH 4511 AS-HIST 3(3,0) United States as a Great Power: 1914-Present: PR: AMH 2010 and 2020 or C.I. American foreign policy in World War I, the interwar period, World War II, and the Cold War.

AMH 5116 AS-HIST 3(3,0) Colloquium in U.S. Colonial History: PR: Senior Standing or C.I. Reading and discussion of the literature on selected topics in colonial American history.

AMH 5137 AS-HIST 3(3,0) Colloquium in U.S. Revolutionary Period: PR:
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 religions, politics, philosophy, and other elements of sociocultural organization of pre-literate societies.

ANT 3241 AS-SOC/AN 3(3,0)
Magical 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. 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, Havasupi).

ANT 3332 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.

ANT 3340 AS-SOC/AN 3(3,0)
Caribbean Cultures: PR: ANT 2000 or ANT 2410 or C.I. Comparative study of peoples and cultures of the Anglophone, Francophone and Hispanophone Caribbean.

ANT 3358 AS-SOC/AN 3(3,0)
Life and Death in Ancient Egypt: PR: Any 2000 level Anthropology course. Use of archaeology and physical anthropology to examine the lives and death of both common citizens and royalty in Ancient Egypt (3200 BCE-AD 600).

ANT 3363 AS-SOC/AN 3(3,0)
Anthropology of Japan: An examination of Japanese culture and its contemporary behavioral and organizational patterns by drawing upon archaeology, cultural history, linguistics, cultural anthropology, and social organization.

ANT 3438 AS-SOC/AN 3(3,0)
Anthropology of Tourism: PR: Any 2000-level social science course. The social theory of tourism; anthropology of tourism in U.S. and world regions, including impacts on local peoples, cultures, and environments.

ANT 3467 AS-SOC/AN 3(3,0)
Nutritional Anthropology: PR: One 2000 level course in social sciences and one 2000 level course in biological sciences or C.I. The biological, social, cultural, physiological and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, ecological and evolutionary.

ANT 3541 AS-SOC/AN 3(3,0)
Biobehavioral Anthropology: An introduction to the study of human behavior in terms of mutual interaction between human biology and cultural environments.

ANT 3550 AS-SOC/AN 3(3,0)
Primatology: PR: ANT 2511 or C.I. Study of species from the Order Primates, including their morphology, ecology, behavior, and geographic distribution.

ANT 3640 AS-SOC/AN 3(3,0)
Language and Culture: PR: Sophomore standing. The study of language in a non-western setting; language and behavior; language and perception.

ANT 3701 AS-SOC/AN 3(3,0)
Applied Anthropology: PR: ANT 2003 or C.I. Application of anthropological methods to current human problems such as the environment, migration, globalization and health.

ANT 3802 AS-SOC/AN 3(3,0)
Ethnographic Field Methods: PR: ANT 2410 or ANT 3640 or C.I. Procedures and principles of ethnographic research methods.

ANT 3949 AS-SOC/AN 0(0,8)
Cooperative Education in Anthropology: PR: Departmental permission required before registering. Cooperative education experience in anthropology. May be repeated. Graded S/U.

ANT 4034 AS-SOC/AN 3(3,0)
History of Anthropological Thought: The exploration of the intellectual foundations of modern anthropology.

ANT 4153 AS-SOC/AN 3(3,0)
North American Archaeology: PR: any lower level social science course. The cultural development of Native North Americans from prehistoric times to the period of the first European contact.

ANT 4180C AS-SOC/AN 3(1,4)
Seminar in Laboratory Analysis: The processing of archaeological finds from excavation through publication. May be repeated for credit.

ANT 4308 AS-SOC/AN 3(3,0)
Gender Issues in Latin America: PR: Completion of a lower-level social science course or its equivalent. Issues of gender in Latin America through an anthropological approach, both theoretical and practical, with special attention to women’s lives.

ANT 4352 AS-SOC/AN 3(3,0)
African Societies and Cultures: PR: ANT 2000 or SYG 2000 or C.I. Anthropological survey of Africa examining the social, cultural, and economic diversity of the continent over time.

ANT 4354 AS-SOClAN 3(3,0)
Postcolonial Africa: PR: ANT 2000 or SYG 2000 or C.I. Cultural change and continuity in contemporary Africa, ethnography of postcolonial social and cultural issues including globalization, health, economics, peace and stability.

ANT 4462 AS-SOC/AN 3(3,0)
Medical Anthropology: PR: ANT 2000 or ANT 2511 or C.I. The field of medical anthropology. Topics will include theories, methods, and applications.

ANT 4521C AS-SOC/AN 5(3,3)
Forensic Anthropology: PR: ANT 2511 & ANT 4525C. C.I. The study of human skeletal remains in relation to a legal context.

ANT 4525C AS-SOC/AN 4(3,1)
Human Osteology: PR: ANT 2511. The scientific study of the human skeleton and the methodology and techniques involved in the anthropological assessment of skeletal remains.

ANT 4586 AS-SOC/AN 3(3,0)
Human Origins: PR: ANT 2511. The fossil evidence for human evolution from Miocene hominoids through the Australopithecines and the earliest members of the genus Homo.

ANT 4824 AS-SOC/AN 9(9,0)
Advanced Anthropological Fieldwork: PR: Students admitted only with permission of instructor. Supervised and archaeological fieldwork.

APA 3471 BA-ACCT 3(3,0)
Accounting for Engineers: General Accounting principles and practice, cost accounting, budgeting, and control techniques. Not usable for BSBA degree credit.

APB 4651 HPA-HP 2(2,0)
Medical Pharmacology I: Drugs in pulmonary diseases: effects on nervous system, and neurofactors, depressants & stimulants; influence on metabolism and endocrine. (MDRV) Bronchodilators, myoclytics, etc.

APB 4652 HPA-HP 2(2,0)
Medical Pharmacology II: PR: APB 4651 or C.I. Drugs used in cardiovascular disorders. Includes isotonic, chronotropic agents, beta blocker drugs, calcium channel antagonists.

ARA 1120 AS-LANG 4(4,1)
Elementary Arabic Language and Civilization I: Introduces the student to Arabic language skills. Open only to students with no experience in the language.

ARA 1120H AS-LANG 4(4,1)
Honors Elementary Arabic Language and Civilization I: PR: Permission of Honors. Introduction to Arabic language skills. Open only to students with no experience in the language. Honors level content.

ARA 1121 AS-LANG 4(4,1)
Elementary Arabic Language and Civilization II: PR: ARA 1120 or C.I. Continuation of ARA 1120.

ARA 1121H AS-LANG 4(4,1)
Honors Elementary Arabic Language and Civilization II: PR: Permission of Honors. Continuation of ARA 1120H. Honors level content.
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 4232. 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 4232. 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 setting. = ARE 4356 ED-TLP 3(3,1)

Teaching Art Appreciation & Criticism in the Classroom: PR: ARH 2050 and ARH 2051. An examination of art appreciation programs and concepts toward planning curriculum for the study of art history, popular art, art criticism, and aesthetics for specific educational settings. = ARE 4453 ED-TLP 3(3,0)

Studio Experiences in Art Education: PR: Completion of all Art Education Program Prerequisites or C.I. Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productive qualities. May be repeated for credit. = ARE 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: Teach the continuatives between African, Afro-Caribbean and Afro-American Arts. = ARH 3522H AS-ART 3(3,0)

Honors African American Arts Seminar: An exploration of traditional, academic, and contemporary urban African American visual arts. = 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. of Honors. Painting, sculpture and architecture from 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: History of still 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: 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 3412 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 4430 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: Art and architecture of India from prehistoric times through the Gupta, Rajput, 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-Columbia, through the Spanish Colonial, to the 20th century. = ARH 4800 AS-ART 3(3,0)

Theory and Criticism of the Visual Arts: PR: ARH 2050 and ARH 2051 or C.I. Criteria of criticism, analysis of works, elements of psychology and sociology of art. Developments in the art of the 20th century. = ARH 4892 AS-ART 3(3,0)

Women in Art: PR: ARH 2050 and ARH 2051 or C.I. A survey of women artists from ancient times to the present as well as a study of the role Aesthetics and Ideology have played in determining representations of women in art. = 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)

systems.

Fibers & Fabrics: Design and production training in surface design, floor loom weaving and fiber sculpture.


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 stylus as a medium.

ART 2400C AS-ART 3(2,4) Beginning Printmaking: 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 textile art history.


ART 3433C 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 a means for image making.

ART 3504C AS-ART 3(2,4) Intermediate Painting: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Problems in painting, with emphasis on the human form.

ART 3616C AS-ART 3(3,0) Animation Production Methods: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, C.I. The development of a computer animation piece. All aspects of production will be covered. May be repeated for credit.

ART 3618C AS-ART 3(3,0) Post-Production Design: PR: Accepted into Animation Program. Special effects and compositing for computer animation and film. Focus on the use of After Effects, Premier and Photoshop software.

ART 3643C AS-ART 3(3,0) Digital Effects & Compositing: PR: Animation major. Special effects and compositing for computer animation and film. Focus on the use of After Effects, Premier and Photoshop or comparable software.


ART 3833C AS-ART 3(2,4) Processes and Ideas in Art: PR: Junior Standing. This course emphasizes the development of individual creativity and the generation of new insights concerning artistic expression. These "formative activities" must be manifested by students in the form of small sculptures and/or other forms of creativity.

ART 3950 AS-ART 0(0,0) Portfolio Review: PR: C.I. Review of relevant artistic works in a student's portfolio. Graded S/U.

ART 4132C AS-ART 3(2,4) Advanced Fiber And Fabrics: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 2310C, and a satisfactory portfolio review or C.I. Textile design and production, including non-loom weaving processes. May be repeated for credit.

ART 4226C AS-ART 3(3,3) Post Production for Animators: PR: FIL 3287C. Concepts and tools for finishing computer and traditional animations on film and video. Emphasis on compositing tools to combine elements in a finished animation.

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 3332C. May be repeated for credit.

ART 4402C AS-ART 3(2,4) Advanced Printmaking: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3304C, and a satisfactory portfolio review or C.I. Advanced problems in painting. May be repeated for credit.

ART 4505C AS-ART 3(2,4) Advanced Painting: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, ART 3504C, and a satisfactory portfolio review or C.I. Advanced problems in painting. May be repeated for credit.


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, 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 4793C 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 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 4286, 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.
capstone thesis for Art Animation majors. Repeatable for credit.

**ART 5109C AS-ART 3(2,1)**  
*Multi-Cultural Crafts Design*: The content of this course will include an appreciation for and the production of Western and Non-Western art forms.

**ART 5811C AS-ART 3(3,1)**  
The Professional Practice of Art: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C (no graduate level prerequisite) or C.I. Seminar class on political information pertaining to professional practices in the art world. Overview of inventory processing, accounting, and the marketing of art.

**ASH 3222 AS-HIST 3(3,0)**  
Islam and Its Empires: PR: Junior standing or C.I. History of the Middle East and North Africa from the birth of Islam to the 16th century.

**ASH 3223 AS-HIST 3(3,0)**  
The Modern Middle East: PR: Junior standing or C.I. History of the Middle East and North Africa from the 16th century to the present.

**ASH 4304 AS-HIST 3(3,0)**  
Women in China: PR: AMH 2010 and AMH 2020, or EUH 2000 and EUH 2001, or WOH 1202 and WOH 2022. Historical changes and continuities in experiences of Chinese women during the traditional period, the modern era and contemporary times.

**ASH 4402 AS-HIST 3(3,0)**  

**ASH 4404 AS-HIST 3(3,0)**  
China in 19th and 20th Centuries: PR: EUH 2000 and 2001 or C.I. The Mongols in China; coming of the Europeans; social structure; Communist movement; Japanese aggression.

**ASH 4442 AS-HIST 3(3,0)**  
Modern Japan, 19th and 20th Centuries: PR: EUH 2000 and 2001 or C.I. The Mongols in China; coming of the Europeans; social structure; Communist movement; Japanese aggression.

**ASH 5227 AS-HIST 3(3,0)**  
The Arab-Israeli Conflict: PR: Graduate Standing or C.I. This course examines the history of the Arab-Israeli conflict, placing particular emphasis on its origins in 19th century imperialism and Zionism

**ASH 5408 AS-HIST 3(3,0)**  
Colloquium in Modern China: PR: Graduate standing. Senior status, or C.I. Course explores works of scholarship in modern China including the rise of Communist, Chinese women and Sino-American relations.

**AST 2002 AS-PHYS 3(3,0)**  
Astronomy: Descriptive survey of solar system, galaxies and universe; physical properties of stars, H-R diagram, stellar evolution, black holes, neutron stars.

**AST 2002H AS-PHYS 3(3,0)**  
Honors Astronomy: Descriptive survey of solar system, galaxies and universe; physical properties of stars, H-R diagram, stellar evolution, black holes, neutron stars. Honors level content.

**AST 2002L AS-PHYS 1(0,3)**  

**AST 3110 AS-PHYS 3(3,0)**  

**AST 3211 AS-PHYS 3(3,0)**  

**AST 3402 AS-PHYS 3(3,0)**  
Galaxies and Cosmology: PR: AST 2002, PHY 2053C. Study of the different types of galaxies, their evolution, their relationship to active galaxies and quasars, and the evolution of the universe.

**AST 3722C AS-PHYS 3(3,0)**  

**AST 4501 AS-PHYS 3(3,0)**  
Celestial Mechanics: PR: PHY 2048, AST 2002. The orbital motions of celestial bodies, including orbit calculation, perturbation theory, and Hohmann transfer orbits.

**AST 5165 AS-PHYS 3(3,0)**  
Planetary Atmospheres: PR: Mechanics PHY 2221 and Modern Physics 3101. The course will examine the physical and chemical processes that govern the behavior of the atmosphere of Earth and the other planets.

**AVM 2510 UCF-HOSP 3(3,0)**  
Airline Management: PR: Junior Standing. The trends, operation, practices, and procedures of the airline industry. Special emphasis on ticketing, scheduling, marketing, and terminal management.

**BCH 4053 AS-CHEM 3(3,0)**  

**BCH 4054 AS-CHEM 3(3,0)**  
Biochemistry II: PR: BCH 4053. Continuation of BCH 4053.

**BCH 4103L AS-CHEM 2(0,6)**  
Biochemical Methods: PR: BCH 4053. A laboratory course stressing the application of the chemical arts to the separation, identification, and quantification of materials of biological significance.

**BOT 3152C AS-BIOL 3(1,4)**  
Local Flora: CR: BOT 4503. The content of this course covering selected topics in floristics. Open only to students whose major requires this specific course.

**BOT 3800 AS-BIOL 3(3,0)**  
Ethnobotany: PR: C.I. Historical and modern uses of plants economically important in various cultures. Designed for majors and non-majors.

**BOT 3820C AS-BIOL 3(2,1)**  
Plants and the Urban Environment: PR: Junior standing or C.I. The selection, placement, propagation and care of ornamental plants in residential and industrial areas. For non-majors only.

**BOT 4156C AS-BIOL 4(2,6)**  

**BOT 4223C AS-BIOL 4(3,3)**  
Plant Anatomy: PR: BSC 2010C and BSC 2101C or C.I. A study of development, structure and function of the principal organs and tissue of vascular plants.

**BOT 4303C AS-BIOL 5(3,6)**  
Plant Kingdom: PR: BSC 2010C and BSC 2101C or C.I. A survey of the plant kingdom utilizing comparative morphology, structure and functions to demonstrate relationships among extant and extinct forms.

**BOT 4503 AS-BIOL 3(3,0)**  
Plant Physiology: PR: PCB 3032 or C.I. A study of mechanisms used by plants to cope with the environment.

**BOY 4503L AS-BIOL 1(0,3)**  
Plant Physiology Laboratory: CR: BOT 4503. The laboratory to accompany BOT 4503

**BOT 4696C AS-BIOL 4(3,3)**  
Conservation and Management of Native Plants: PR: BOT 4713C, PCB 3034 and/or BOT 4503C or C.I. Identification, conservation, propagation and management of Florida rare, endangered, indicator or reclamation species.

**BOT 4713C AS-BIOL 5(3,6)**  

**BOT 5485C AS-BIOL 3(2,3)**  
Terrestrial Cryptogams: PR: BOT 4303C or C.I. A lecture-laboratory course survey of the biodiversity and classification of terrestrial-cryptogams (bryophytes, ferns, and fern allies) with special emphasis on those found in Florida.

**BOT 5623C AS-BIOL 4(3,3)**  
Plant Geography and Ecology: PR: PCB 3034 or C.I. The study of the abiotic and biotic processes that control the distribution of terrestrial flora at local, landscape, and global scales.

**BSC 1005 AS-BIOL 3(3,0)**  
Biological Principles: A study of various biological factors which affect the health and survival of man in modern society. Designed for non-majors.

**BSC 1005H AS-BIOL 3(3,0)**  
Biological Principles-Honors: PR: Honors. Biological factors that affect dependence on the environment; the role of human population preserving ecological integrity.

**BSC 1005L AS-BIOL 1(0,2)**  
Biological Principles Laboratory: CR: BSC 1005. The laboratory to accompany BSC 1005.

**BSC 1050 AS-BIOL 3(3,0)**  
Biology and Environment: Biological implications of the interaction among human society, population, and technology in relation to the environment and natural systems. Designed for non-majors.

**BSC 1050H AS-BIOL 3(3,4)**  
Biological and Environment-Honors: PR: Honors. Biological factors that affect dependence on the environment; the role of human population preserving ecological integrity.

**BSC 1050L AS-BIOL 1(0,2)**  
Biological and Environment Laboratory: CR: BSC 1050. The laboratory to accompany BSC 1050.

**BSC 2010C AS-BIOL 4(3,2)**  
General Biology: PR: High school biology or C.I. A survey of the plant kingdom utilizing comparative morphology, structure and functions to demonstrate relationships among extant and extinct forms.

**BSC 2100C AS-BIOL 4(3,3)**  
General Biology: PR: Eligibility for Honors Program, Basic principles and underlying concepts of modern biology. Introduction to quantitative experimental using intensive, open-ended labs.
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 only to students whose major requires this specific course.

BSC 2011H AS-BIOL 4(2,6)
Honors Biodiversity: PR: BSC 2010H, BSC 2010P, or C.I. BSC 2011C for honors students; enhanced by considerable field work, a CD-ROM “text,” relevant video programs and readings written by authorities in the field.

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 4312C AS-BIOL 4(3,3)
Marine Biology: PR: PCB 3034 and STA 2023. The biological, ecological, physical and chemical aspects of the world’s oceans.

BSC 4422L AS-BIOL 1-4(0,3-12)
Biological 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 Biological 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: EVT 3385 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 in vocational student organizations.

BUL 3130 BA-ACCT 3(3,0)
Legal and Ethical Environment of Business: PR: Junior standing. Analysis of the law as a dynamic social and political institution in the business environment, including contract law, torts, and ethical consideration.

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 regulations.

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 4540 BA-ACCT 3(3,0)

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 4630 ECS-EECS 3(3,0)

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.

CAP 5512 ECS-EECS 3(3,0)
Evolutionary Computation: This course covers the field of evolutionary computation, focusing on the theory and application of genetic algorithms.

CAP 5610 ECS-EECS 3(3,0)

CAP 5636 ECS-EECS 3(3,0)

CAP 5725 ECS-EECS 3(3,0)
Computer Graphics I: Architecture of graphics processors; display hardware; principles of programming and display software; problems and applications of graphic systems.

CBH 3003 AS-PSYCH 3(3,0)
Comparative Psychology: PR: PSY 3021. A study of comparative behaviors of lower animals.

CCE 4003 ECS-CCE 3(3,0)
Introduction to the Construction Industry: PR: Civil Engineering with construction option. The construction industry: Topics covered include: project evaluation, project phases, project delivery systems, contracts, estimating and scheduling. Also drawing and specifications.

CCE 4004 ECS-CCE 3(3,0)
Construction Methods: PR: EGN 3613 and junior standing. Construction project evaluation principles along with construction methods for civil and structural systems. May be repeated for credit.

CCE 4031 ECS-CCE 3(3,0)
Construction Project Management: PR: EGN 3613. Project management in the construction industry. Project financial evaluation on a life cycle basis. Essentials of project management such as estimating scheduling, contracts, and administration. May be repeated for credit.

CCE 4034 ECS-CCE 3(3,0)
Construction Estimating and Scheduling: PR: CCE 4003. This course covers construction project estimating and bidding and the preparation of construction schedules. This is followed by in-depth coverage of time and control techniques.

CCE 4402 ECS-CCE 3(3,0)

CCE 4810 ECS-CCE 4(4,0)
Construction Design Project: PR: Senior Standing, CCE 4003, and CCE 4004. The preparation and development of a proposal and plan for a construction project, including construction engineering systems, site facilities, construction methods, coordination, and control.

CCE 4813 ECS-CCE 4(4,0)
Mechanical and Electrical Systems for Buildings: PR: CCE 4003 or C.I. Design and construction of mechanical and electrical systems for buildings.

CCE 5006 ECS-CCE 3(3,0)
Introduction to Construction Industry: PR: post-bac status or C.I. This course introduces students to the construction industry. Topics include project evaluation, project phases, project delivery systems, contracts, estimating and schedule drawing and specifications. Research paper required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCI 5688</td>
<td>Cyber Crime and Criminal Justice</td>
<td>PR: CCI 5015. Deals with the problem of cyber crime and the criminal use of the Internet. Includes investigation, enforcement, and legal issues.</td>
</tr>
<tr>
<td>CCI 5704</td>
<td>Research Methods in Criminal Justice</td>
<td>An examination of the philosophy and techniques of research as applied in the Criminal Justice field.</td>
</tr>
<tr>
<td>CDA 3103C</td>
<td>Computer Organization</td>
<td>PR: COP 3502C. Combustion logic, circuits, sequential logic design, finite state machine design, software tools for logic design, and assembly language programming.</td>
</tr>
<tr>
<td>CDA 4150</td>
<td>Computer Architecture</td>
<td>PR: COP 3402C and CDA 3103C. Basic processor design, hardwired and microprogrammed control, ALU, memory organization, pipelining, and computer arithmetic.</td>
</tr>
<tr>
<td>CDA 4506C</td>
<td>Design and Operation of Computer Communication Networks</td>
<td>PR: COP 3502, MHI 2104 or COP 3100. Data communication networking technologies (TCP/IP, Ethernet, Gigabit Ethernet, ATM, Frame Relay), products (routers, switches, adapters), design and detailed configuration including hands-on exercises.</td>
</tr>
<tr>
<td>CDA 4527</td>
<td>Analysis of Computer Communication Networks</td>
<td>PR: COP 3100, STA 2023, MAC 2312. Network design using layering. Introduces cabling, topology, architecture, hardware and software. Includes performance and control issues such as congestion control, error control, contention resolution.</td>
</tr>
<tr>
<td>CDA 5106</td>
<td>Advanced Computer Architecture</td>
<td>PR: CDA 4150. Instruction set architectures, processor implementation, memory hierarchy, pipelining, computer arithmetic, vector processing, and I/O.</td>
</tr>
<tr>
<td>CDA 5110</td>
<td>Parallel Architecture and Algorithms</td>
<td>PR: COT 4210, CDA 5106. General-purpose vs. special-purpose parallel computers; arrays, message-passing; shared design factors; communication synchronization and granularity; parallel data structures; automatic program restructuring.</td>
</tr>
<tr>
<td>CDA 5215</td>
<td>Architecture and Design of VLSI</td>
<td>PR: CDA 4150 or equivalent. Overview of VLSI technology. Logical design of basic subsystems; integrated system design tools; design of a VLSI computer system.</td>
</tr>
<tr>
<td>CET 3010</td>
<td>Introduction to Information Technology</td>
<td>PR: MAC 1105. An introduction to IT field, including binary representation, graphics, data compression, information theory, transmission and storage technology, and communications.</td>
</tr>
<tr>
<td>CET 3144C</td>
<td>Applied Microprocessor Technology</td>
<td>PR: DC Circuit Analysis, digital and microprocessor fundamentals, and high level programming language. Analysis and design of the components, architecture, and interfacing of a microcomputer. Specific reference to IBM compatible microcomputers and peripherals. Troubleshooting and repair are emphasized in the laboratory.</td>
</tr>
<tr>
<td>CET 3198C</td>
<td>Digital Systems</td>
<td>PR: DC Circuits and Digital Circuits 1. Finite State Machines and Algorithmic State Machines, includes design, synthesis and implementation of a digital system using schematic capture and VHDL.</td>
</tr>
<tr>
<td>CET 3323C</td>
<td>Digital Technology</td>
<td>PR: MAC 1105 and C.I. Digital logic gates, memory devices, Karnaugh Maps, combinational logic, arithmetic units, registers and sequential logic.</td>
</tr>
<tr>
<td>CET 3383</td>
<td>Applied Systems Analysis</td>
<td>PR: CET 2364 or equivalent. Study of system analysis, design, development and implementation cycle. Includes Object Oriented Programming (OOP) to implement system programs. May be repeated for credit.</td>
</tr>
<tr>
<td>CET 3503</td>
<td>Microcomputer Technology</td>
<td>PR: CET 2123C and high level programming language. Microcomputer assembly programming, including overview of architecture and operating system environment. May be repeated for credit.</td>
</tr>
<tr>
<td>CET 3752</td>
<td>Intro to Telephony</td>
<td>PR: EET 3085C or equivalent or C.I. An introductory level course in telephony technology. The telephony environment, telemanagement, telephony connectivity and services of telephony.</td>
</tr>
<tr>
<td>CET 4134C</td>
<td>Microprocessor Electronics II</td>
<td>PR: Digital Circuits I and CET 2123C. The MC68000 Software architecture programming and hardware architecture are covered.</td>
</tr>
</tbody>
</table>
in great details. Assembly language programming interfacing and hardware characteristics as well as applications are covered.

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 FPGAs.

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: ETL 3551, CET 314AC, CET 3593 or equivalent, C.I. Using computer application packages to create, use, and index both personal and corporate databases. Hardware and software optimization. Enhancement add-ons. Intranet applications.

CET 4483 ECS-ENT 3(3,0) Intro to Local Area Network Technology: PR: EET 306C 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 database 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


CET 4741L ECS-EECS 3(0,3) Computer Networking Laboratory: PR: C.I. Laboratory exercises to enhance the understanding of concepts/principles discussed in computer networking and data communication tools.

CET 4748 ECS-ENT 3(3,0) Wide Area Networks I: PR: CET 3752 or CET 4483, or C.I. Designing Wide Area Networks; determining requirements, designing the networks, structure, choosing appropriate technologies, and evaluating results.


CET 4915C ECS-ENT 3(1,4) Senior Design Project: PR: Computer, Electronics, or Information Systems Engineering Technology senior within 18 semester hours of graduation. Supervised individual or group projects involving project definition, planning, design, development, testing and evaluation. Progress reports and final report are required.

CET 4931 ECS-ENT 3(3,0) Current Topics in Technology: PR: C.I. Study of recent state-of-the-art computer related topics from recognized electronics and computer oriented technical journals and texts. Requires written and verbal communication.

CGN 3501C ECS-CEE 3(2,3) Civil Engineering Materials: PR: C.I. The characterization of materials used in civil engineering works to include concrete, soils, bituminous, polymers and composite materials.

CGN 4300 ECS-CEE 3(3,0) Civil Engineering Systems: PR: EGN 3613, MAC 2313; STA 3032. Mathematical techniques commonly associated with operations research and economics which are applicable to the planning, design, and operation of civil engineering systems.

CGN 4600 ECS-CEE 3(3,0) Public Works Engineering: PR: ENV 3001 and CWR 3201. An overview of planning, design, operation and maintenance of public works, with emphasis on water and wastewater treatment plants. May be repeated for credit.

CGN 5320C ECS-CEE 3(2,2) Geographic Information Systems: Programming theory and application of Geographic Information Systems to Civil Engineering projects.

CGN 5504C ECS-CEE 3(2,2) Civil Engineering Materials: PR: EGN 3615, EGN 3331, or C.I. Structure, properties, and applications of materials used in civil engineering including concrete, steel, asphalt, wood, soils, and composite materials.

CGN 5506C ECS-CEE 3(2,2) Asphalt Concrete Mix Design: PR: CEG 4102C. Properties of asphalt, aggregate and asphalt mixtures, Marshall mix design, Hveem mix design, pavement rehabilitation.

CGS 1060C ECS-EECS 3(2,2) Introduction to Computer Science: History, typical computer number systems, control and data flow, peripheral components, memory devices, effects of computers on society, applications of computers. Not open to Computer Science Majors.

CGS 1060H ECS-EECS 3(2,2) Honors Introduction to Computer Science: PR: Admission to Honors Program. History, number systems, control and data flow, peripheral components, memory devices, effects of computers on society.
An introduction to the laboratory techniques of organic synthesis techniques and structure elucidation skills. Choice of preferred analytical methods and techniques is emphasized through applications involving both inorganic and organic systems.


CHM 4610C AS-CHEM 4(2,6) Inorganic Chemistry III: PR: CHM 3120C or CR: CHM 3410. A laboratory and lecture course designed to give in-depth coverage to modern methods of analysis including electrochemistry, spectroscopy, and separation techniques.

CHM 4620 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 4615 AS-CHEM 3(0,3) 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 4(2,6) 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 4(2,6) Undergraduate Chemistry Seminar: PR: CHM 3411 and CHM 4914C. A topic of current chemical interest will be presented by students at a regularly scheduled departmental seminar.


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) Polymer Chemistry: 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.
CHS 4515C AS-CHEM 4(2,6) Forensic Scene Investigation: PR: Grade of C+ or better in CHM 3290, CHS 3511C, CHS 3530C, CHS 3533C and CHS 4506C. Procedures for the investigation of arson, explosives, and crime scenes.

CHS 4532 AS-CHEM 3(3,0) Interpretation of DNA Evidence: PR: Grade of C+ or better in CHS 3533C. Concepts and principles of genetic data analysis as applied to forensics.


CHS 4537 AS-CHEM 2(2,0) Forensic Laboratory Quality Assurance: PR: Grade of C+ or better in CHS 3501, CHS 3505C, and CHS 3533C. Concepts and principles of quality assurance and quality systems management in forensic laboratories.

CHS 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.

CHS 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; 200 hours) for a professional forensic laboratory. This course may be repeated for credit.

CHS 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.

CHS 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.

CHS 5596 AS-CHEM 3(3,0) The Forensic Expert in the Courtroom: PR: CHS 3533C, CHS 6653, or CHS 6656. A study of the uses of technically and scientifically trained expert witnesses at trial.


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 3444 HPA-CJ/LS 3(3,0) Crime Prevention: PR: CJC 3024. An overview and analysis of crime prevention strategies used in the private and public sectors

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 CJC 3510. 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 4654 HPA-CJ/LS 3(3,0) Crime and Place: PR: CJC 3024. Provides an understanding 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 4564 HPA-CJ/LS 3(3,0) Delinquency Control: PR: CJC 3024 and CJC 3510 or C.I. Examination of programs and institutions including juvenile court process, intake services, and remedial 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 3033 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; warrantless; and, interrogations.

CJL 4410 HPA-CJ/LS 3(3,0) Legal Aspects of the Criminal Court Process: PR: CJC 3510. The legal dimension of various criminal court decision making stages, including: bail, charging; preliminary hearing; grand jury; pretrial hearings; trial; and, sentencing.


CJT 3803 HPA-CJ/LS 3(3,0) Security Management: PR: CJC 3024. Examination of a global security management environment impacted 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.I. major or minor or C.I./CJC 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/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: CJC 3024. 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 1202, 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 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 2012 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 2012. Psychological
COT 3100C ECE-EECS 3(3,1) Introduction to Discrete Structures: PR: MAC 1105, MAC 1114. Logic, sets, functions, relations, combinatorics, graphs, Boolean algebra, finite-state machines, Turing machines, unsolvability, computational complexity.

COT 3100H ECE-EECS 3(3,0) Honors Introduction to Discrete Structures: PR: MAC 1105, MAC 1114. Logic, sets, functions, relations, combinatorics, graphics, Boolean algebra, finite-state machines, Turing machines, unsolvability, computational complexity.

COT 3960 ECE-EECS 0(1,0) CS Foundation Exam: PR: COT 3502C AND COT 3100C. Foundation examination for computer science majors. Required before taking COT 3503C, and COP 3402C and other 4000 level courses. Graded S/U.

COT 4110 ECE-EECS 3(3,0) Tools for Algorithm Analysis: PR: COP 3503C and COT 3100C. Tools from discrete and continuous mathematics for analyzing complexity of algorithms. Order notation use and manipulation.

COT 4210 ECE-EECS 3(3,0) Discrete Computational Structures: PR: Admission to major or C.I., and COT 3100C. Review of theories, problems and politics of development in Computational Methods/Applications.


COT 4810 ECE-EECS 3(3,0) Topics in Computer Science: PR: COP 3503C AND COP 3402C. 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 ECE-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 ECE-EECS 3(3,0) Design and Analysis of Algorithms: PR: COT 4210 and COT 4110. Classification of algorithms, e.g., recursive, divide-and-conquer, greedy, etc. Data Structures and algorithm design and performance. Time and space complexity analysis.

COT 5507 ECE-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 ECE-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 ECE-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 during the 19th-20th centuries.

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 3013. 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 3013. 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 3013 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
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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, and theories 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 2300. 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 the M.A. program in English or Honors in the Major status. PR: Eleven 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:** CR: C.I. Creative writing practicum. May be repeated for credit.

CWR 3201 ECS-CEE 3(3,0)
**Engineering Fluid Mechanics:** CR: EGN 3343. Fundamentals of fluid mechanics with hydraulic applications: fluid properties, hydrostatics, dimensional analysis, energy, momentum, continuity, and steady flow.

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 flow of intention 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 2200C & DAA 2210C or C.I. Exploration of form, style, and technique in creative movement. Includes practical class work and stage performance.

DAA 2200C AS-THEA 3(2,2)
**Ballet II:** PR: Restricted to B.F.A. Theatre performance major. CR: TPP 3650, THE 2200, TPP 2110. Fundamentals of Classical Ballet; includes practical dance work as well as dance history lecture.

DAA 2201C AS-THEA 3(2,2)

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 2210C 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 rhythmic dance techniques, and fundamental movement patterns for grades K-12.

DEP 2004 AS-PSYCH 3(3,0)
**Developmental Psychology:** PR: PSY 2012. The effects of genetic, psychological, maturational, and social factors on behavior throughout the life cycle.

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.

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, inviscid aerodynamic shapes. Theories include potential flow concepts and classical methods as they apply to airfoils, finite wings, etc.

EAS 3404C ECS-MMAE 3(2,3)

EAS 3530 ECS-MMAE 3(3,0)

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 3800C ECS-MMAE 3(2,3)
**Aerospace Engineering Measurements:** PR: EGN 3343 and EML 3601. Theory, calibration and use of instruments. Measurement techniques, data analysis, report writing. Laboratory topics related to aerospace engineering.

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 aeronautical/aerospace systems with emphasis on project team activity.

EAS 4105 ECS-MMAE 3(3,0)
**Flight Mechanics:** PR: EAS 3101 and EML 3312C. Analysis of aircraft performance, static and dynamic stability and automatic control systems. Design for performance, handling, and stability.

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
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) Aerothermodynamics of Propulsion Systems: PR: EAS 4134 or EML 4703. Fundamental analysis and design considerations of propulsion systems. Turboprops, ramjets and rockets.

EAS 4400 ECS-MMAE 3(3,0) Orbital Mechanics: 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, thermoelectrics, thermionics, 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) Engineering Design for Aerospace Vehicles: PR: EAS 4700C, EAS 4710C, EML 4502C, 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-EECS 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-EECS 3(2,3) Microcomputer-based Monitoring and Control Systems: PR: EEL 3342C, EEL 4767C or C.J. 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 3411 BA-ECON 3(3,0) Quantitative Business Tools II: PR: Junior standing, ECO 2013, ECO 2023, 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.J. 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) Economics Internship: PR: Economics or General Business major; consent of department chair. Supervised economics-related work experience in a pre-approved sponsoring organization. See department for information/application. Graded S/U.

ECO 5005 BA-ECON 3(3,0) Economic Concepts: PR: Acceptance into the graduate program. Introduction to micro and macro economic analysis.

ECO 5006 BA-ECON 1.5(1,5,0) Economic Foundations: PR: Acceptance to Graduate Study. Introduction to Micro and Macro Economic Analysis.

ECO 5414 BA-ECON 1.5(1,5,0) Statistical Foundations: 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.


ECP 3203 BA-ECON 3(3,0) Contemporary Labor Economics: PR: ECO 2013 and ECO 2023. The analysis of labor problems and issues in a dynamic contemporary economy through the interaction of the four major institutions: households, firms, government, and unions.

ECO 3303 BA-ECON 3(3,0) Economics and the Environment: PR: Sophomore standing and ECO 2013 or ECO 2023. Analysis of environmental problems from an economic perspective, its relationship to other disciplines, and the international dimension of environmental policy.

ECP 3433 BA-ECON 3(3,0) Transportation Economics: PR: ECO 2013 and ECO 2023. Economic characteristics and government regulation of public carriers. Consideration of com-
EEE 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.

EEE 4271  ED-CFCS  3(3,0)  Early Intervention: Provides an overview of development assessment, and intervention with at-risk and handicapped infants and toddlers.

EEE 4402  ED-CFCS  3(3,0)  Cultural and Family Systems: Explores the institution of family in its cultural context as a living dynamic system.

EEE 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.

EEE 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.

EEE 4603  ED-CFCS  3(3,0)  Guidance of Young Children: PR: EEC 3610. Provides students with techniques to guide the behavior of young children.

EEE 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.


EEE 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.

EEE 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.

EEE 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.

EEE 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.

EEE 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.

EEE 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.

EEE 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.

EEE 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.

EEE 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.

EEE 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.


EEE 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.


EEE 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. Logic design using standard components such as ROM, arithmetic units, multiplexers, registers, and counters.

EEE 3470  ECS-ECCS  3(3,0)  Electromagnetic Fields: PR: EEL 3122C and MAP 2302. Introduction to electric and magnet fields and electromagnetic waves.

EEE 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.


EEE 3801C  ECS-ECCS  3(2,3)  Introduction to Computer Engineering: PR: EGN 3210 or equivalent. Introduction to the field of computer engineering. Engineering applications of advanced C-language concepts. C++ topics and applications. Basic computer organization. Assembly language programming.

EEE 4130  ECS-ECCS  3(3,0)  Fundamentals of Continuous Simulation: PR: MAP 2302. Fundamental concepts of continuous system simulation. Numerical integration, math modeling, simulation software. May be repeated for credit.

EEE 4140C  ECS-ECCS  4(3,3)  Analog Filter Design: PR: EEL 3307C, EEL 3122C. Passive and active analog filter design. May be repeated for credit.

EEE 4205  ECS-ECCS  3(3,0)  Electric Machinery: PR: EEL 3122C, EEL 3470. Fundamentals of DC and AC electric machines.

EEE 4216  ECS-ECCS  3(3,0)  Fundamentals of Electric Power Systems: PR: EEL 3122C or C.I. Three-phase power representation and analysis, transformers, per unit system, symmetrical components, faults, transmission lines.


EEE 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.

EEE 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.


EEE 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.

EEE 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.

EEE 4635C  ECS-ECCS  4(3,3)  Computer Control Systems: PR: EEL 3657. Discrete-time systems, the z-transform, and single loop computer control systems. Digital simulation in the analysis and design of processes with embedded computers. No graduate credit for both EEL 5630 and this course.


EEE 4765C  ECS-ECCS  4(3,3)  Embedded Computer Systems: PR: EEL 4768C.
**UCF Courses and Descriptions**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Prerequisites</th>
<th>Credit Hours</th>
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</thead>
<tbody>
<tr>
<td>EEL 4851C</td>
<td>Computer Applications in Systems Design</td>
<td>EEL 4635C. Computer Applications in Systems Design</td>
<td>3(1,3)</td>
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<tr>
<td>EEL 4863C</td>
<td>Software Engineering</td>
<td>EEL 3342C and EEL 3307C. Design of software systems</td>
<td>3(3,0)</td>
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<tr>
<td>EEL 4878C</td>
<td>Digital Signal Processing</td>
<td>EEL 4768C, STA 3032. Elements of digital signal processing</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>EEL 4914L</td>
<td>Senior Design</td>
<td>EEL 3307C, EEL 3657, and EEL 3552C. Applications of engineering design to realistic and meaningful problems. Constraints such as economic factors, safety, reliability, aesthetics, social impact and industrial engineering</td>
<td>3(0,3)</td>
</tr>
<tr>
<td>EEL 4915L</td>
<td>Senior Design</td>
<td>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</td>
<td>3(0,3)</td>
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<tr>
<td>EEL 4973E</td>
<td>Computer Network Protocols</td>
<td>EEL 4914. Executive 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</td>
<td>3(2,1)</td>
</tr>
<tr>
<td>EEL 4974C</td>
<td>Computer Network Protocols</td>
<td>EEL 4914. Executive 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</td>
<td>3(2,1)</td>
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<tr>
<td>EEL 4975C</td>
<td>Computer Network Protocols</td>
<td>EEL 4914. Executive 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</td>
<td>3(2,1)</td>
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<tr>
<td>EEL 4976C</td>
<td>Computer Network Protocols</td>
<td>EEL 4914. Executive 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</td>
<td>3(2,1)</td>
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<tr>
<td>EEL 4977C</td>
<td>Computer Network Protocols</td>
<td>EEL 4914. Executive 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</td>
<td>3(2,1)</td>
</tr>
<tr>
<td>EEL 4978C</td>
<td>Computer Network Protocols</td>
<td>EEL 4914. Executive 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</td>
<td>3(2,1)</td>
</tr>
<tr>
<td>EEL 4979C</td>
<td>Computer Network Protocols</td>
<td>EEL 4914. Executive 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</td>
<td>3(2,1)</td>
</tr>
</tbody>
</table>

*2003-2004 Undergraduate Catalog*
EEL 5771C ECS-EECS 3(2,3) Engineering Applications of Computer Graphics: PR: EGN 3420 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 5891 ECS-EECS 3(3,0) Continuous System Simulation I: PR: EEL 3857 or C.I. Use of state-space techniques, numerical integration, and CSSL programs. Laboratory assignments.

EES 3004 ECS-EECS 3(3,0) Environmental systems: One semester of college level science other than 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, measurement, and analysis of chemical systems in environmental engineering. Control of treatment processes such as softening, coagulation, disinfection, scrubbing, neutralization, 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 4548 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 the 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 parental awareness of their role in child development and school success. Attention given to the social context of parenting and parenting 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. Hall in elementary, hall in secondary. Graded SJU.

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 educator’s role in working with families, regular educators, and other professionals in a collaborative relationship.

EEX 4943  ED-CFCS  12(0,35)
Internship II: PR: Completion of specialization. Satisfactory completion of the portfolio. Full day student teaching under a certified special education teacher in an elementary or secondary school. May be repeated for credit. Graded S/U.

EEX 5054  ED-CFCS  3(3,0)
Exceptional Children in the Schools: PR: Senior standing or C.I. Characteristics, definitions, educational problems, and appropriate educational programs for the exceptional children in schools.

EEX 5702  ED-CFCS  3(3,0)
Planning Curriculum for Pre-kindergarten Children with Disabilities: Focus on curriculum planning; developmentally appropriate practices and implementation of individualized instruction for pre-kindergarten children with disabilities.

EEX 5750  ED-CFCS  3(3,0)
Communication with Parents and Agencies: PR: Presentation of methods of interacting with community agencies, safeguarding student’s rights, developing a case management system, and facilitating program transition.

EGM 3373H  ECS-EECS  4(4,0)

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 student status or C.I., GNM 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 communication; 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 foundation of leadership, scholarship, and service regarding disciplines in the college.

EGN 1111C  ECS-MMAE  2(1,3)

EGN 1360  ECS-MMAE  3(3,0)
Materials in Today’s World: A survey of the properties, manufacture, and uses of metals, ceramics, and polymers in today’s world with emphasis on modern developments and new materials.

EGN 2920C  ECS-EIMS  2(1,1)
LEAD Colloquium: PR: C.I., LEAD Scholars Program. Must have completed at least two of the following with a grade of B or better: IDS 1040C, GEB 1091C, EGN 1036C, EDG 1005C or HSC 1931C. Provides experiential leadership experience in an appropriate leadership setting under the direction of a university supervisor with the LEAD Scholars Program. May be repeated for credit.

EGN 3210  ECS-EECS  3(3,0)

EGN 3310  ECS-CIE  3(3,0)
Engineering Analysis-Statics: PR: PHY 2048; CR: MAC 2312. Fundamental concepts of mechanics, including resultants of force systems, free-body diagrams, equilibrium of rigid bodies, and analyses of structures.

EGN 3310H  ECS-CIE  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)

EGN 3321H  ECS-CIE  3(3,0)
Mechanics of Materials - 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-CIE  3(3,0)

EGN 3358  ECS-MMAE  3(3,0)

EGN 3365  ECS-MMAE  3(3,0)

EGN 3373  ECS-EECS  3(3,0)

EGN 3373H  ECS-EECS  3(3,0)

EGN 3420  ECS-EECS  3(3,0)
Engineering Analysis: PR: High-level computer language; MAC 2312. Engineering applications of numerical methods including curve fitting, matrix operations, root finding, interpolating, integration and plotting.

EGN 3613  ECS-EIMS  2(2,0)

EGN 3704  ECS-CIE  2(0,2)
Engineering and the Environment: PR: CHS 1440 and MAC 2312. Process engineering for air, energy, water, and land environment and the role of engineering in control of these environments.

EGN 3843  ECS-CIE  3(3,0)
Systems Modeling: PR: CGS 1060C or equivalent. Representation of 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-CIE  3(3,0)
Technology and Social Change: PR: History/Humanities Sequence or C.I. Review of existing theories of social change, analysis of the role of technology as related to social change, and study of contemporary events in technology and their possible impact on society.

EGN 4412C  ECS-MMAE  3(1,5)

EGN 4413C  ECS-MMAE  3(1,5)
Interdisciplinary Design II: PR: EGN 4412C. Continuation of interdisciplinary Design I May be repeated for credit.

EGN 4624  ECS-EIMS  3(3,0)
Engineering Administration: PR: Senior standing. Engineering organization and administration; delegation of authority and responsibility; effective use of resources; project management; R and D planning; ethics 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 CIE 4523. Evaluate overall impact of integration and design concepts on various satellite component subsystems and their payloads into a small satellite system design leading to a final configuration.

EGN 4707C  ECS-CIE  3(2,4)
Processing Space-Launch Systems: PR: For ECE: EEL 3552C or EEL 4767C; For IEMS: ESI 4523C; For MAE: EAS 3905C. 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 engineering 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 making. Basic modeling, statistical methods and computer usage.

EGN 4823  ECS-ENT  3(3,0)
Topics in Urban Development: Production, distribu-
tion, and consumption of various commodities. Engineering relationships to distribution, internal structure, function of urban developments, interrela-
tionships of engineering, social, economic, and cultur-
al phenomena.

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
<th>Prerequisites</th>
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<tbody>
<tr>
<td>EIN 4824</td>
<td>ECS-ENT Energy and Society</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>EGN 4825</td>
<td>ECS-ENT Environment and Society</td>
<td>3(3,0)</td>
<td>PR: C.I. Environmental factors of importance to people's interaction with the environment; engineering and non-engineering measures to improve insurance and maintenance of environmental quality. Not for engineering students.</td>
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<tr>
<td>EGN 4830</td>
<td>ECS-ENT Telecommunications</td>
<td>3(3,0)</td>
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</tbody>
</table>
| EGN 4931H   | ECS-ECS Engineering Honors Seminar                | 3(3,0)  | PR: Senior standing and C.I. Introduces a select group of students in engi-
neering 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 Professional Engineering Practice         | 1(1,0)  | PR: Senior standing or C.I. Seminars dealing with current and future global issues within the engineering profession. |
| EGN 5035    | ECS-ECS Topics in Technological Development       | 3(3,0)  | 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 Internal Combustion Engine Analysis and   | 2(3,2)  | PR: EGN 3343 or EGN 3558 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 Small Rocket Applications for Teachers     | 3(3,0)  | PR: Admission to Martin Marietta/UCF 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 Metrology                                | 2(2,2)  | PR: EIN 4391C or C.I. Advanced topics in inspection and measurement with applications in engineering and manufacturing. |
| EGN 5858C   | ECS-IEMS Introduction to Rapid Prototyping        | 3(3,2)  | 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 facili-
ties. |
| EIN 3304    | ECS-IEMS Introduction to Industrial Engineering    | 2(2,0)  | PR: STA 3032. Management standards for evaluation and control of man and man/machine systems. Flow and operations analysis, work measurement, job evaluations, Laboratory assignments. |
| EIN 3354    | ECS-IEMS Principles of Cost Engineering            | 3(3,0)  | PR: EGN 3613. This course is to provide engineers from all disci-
plines the background for the cost estimation of engineering systems throughout the product life cycle. |
| EIN 4116C   | ECS-IEMS Systems Analysis and Design               | 2(2,2)  | PR: EIN 4364C. Systems analysis methodology, system requirements, specifications, system design methodology and deci-
sion support. Consulting skills and client interactions. Initiation of senior design projects. |
| EIN 4118C   | ECS-IEMS Industrial Engineering Applications of Computers | 3(2,3)  | PR: EGN 3210 or high level programming language. Survey of microcomputer methods in industrial engi-
near practice. Topics include: spreadsheets, data-
bases, expert systems, and project management. Lab exercises. |
| EIN 4214    | ECS-IEMS Safety Engineering and Administration     | 3(3,0)  | PR: EIN 3314C. Senior standing, Man/machine systems; design and conduct of human engineering studies. |
| EIN 4305C   | ECS-IEMS Industrial Engineering Applications in The Service Industries | 2(2,2)  | 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, health care, etc. |
| EIN 4333C   | ECS-IEMS Industrial Control Systems                | 2(2,3)  | PR: ESI 4312. Decision rules in industrial environment including Forecasting, Production Planning, Scheduling, Inventory Control, and Project Monitoring. Laboratory assignments. |
| EIN 4364C   | ECS-IEMS Industrial Facilities Planning and Design | 2(2,2)  | PR: EIN 3314C, EIN 3354, EIN 4391C. CR:EIN 4333C. Comprehensive design of industrial production sys-
tems, including interrelationships of plant location, process design, and materials handling. Laboratory assignments. |
| EIN 4391C   | ECS-IEMS Manufacturing Engineering                 | 2(2,2)  | PR: EGN 3365. Introduction to manufacturing engineering, with emphasis on current and emerging technologies in metalworking and electronics. |
| EIN 4400    | ECS-IEMS Principles of Concurrent Engineering      | 3(3,0)  | PR: EGN 3613 or C.I. Elements of concurrent engineering and its application. Topics include quality function deploy-
mnet and design for manufacturing and assembly. |
| EIN 4411C   | ECS-IEMS Computer-Aided-Manufacturing              | 2(2,2)  | PR: EIN 4364C. Computer-Aided-Manufacturing (CAM) including com-
puter numerical control (CNC), robotics, parts classifi-
cation (GT) and manufacturing resource planning (MRP). |
| EIN 4891C   | ECS-IEMS Industrial Engineering Senior Design      | 2(2,3)  | PR: EIN 4116C. Senior standing, Capstone design course; application of IEMS techniques to real-world design applications. |
| EIN 5108    | ECS-IEMS The Environment of Technical Organizations | 3(3,0)  | PR: Graduating seniors; or C.I. EGN 4624 recommended. Presentation and investigation into the principles required to transform technologists into managers focusing on engineers, scientists, and other profes-
sionals providing services in technically-oriented organizations. |
| EIN 5117    | ECS-IEMS Management Information Systems            | 3(3,0)  | 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 Project Engineering                      | 3(3,0)  | PR: Graduate standing or C.I. Role of engineer in project management with empha-
sis on project life cycle, quantitative and qualitative methods of cost, schedule, and performance control. |
| EIN 5248C   | ECS-IEMS Ergonomics                                | 2(2,2)  | PR: C.I. Applications of anthropometry, functional anatomy, mechanics, and physiology of musculoskeletal system concepts in the engineering design of industrial tools, equipments, and worksta-
tions. |
| EIN 5251    | ECS-IEMS Human-Computer Interaction                 | 3(3,0)  | PR: Basic knowledge. Human-computer interaction, usability principles. |
| EIN 5303    | ECS-IEMS Forecasting                              | 3(3,0)  | PR: ESI 5219. Forecasting methods with emphasis on microcomputer-
related packages. |
| EIN 5305C   | ECS-IEMS Optimal Design                           | 3(3,0)  | PR: EIN 4391C. Tools and materials design, tolerance technology, theory of metal cutting, and machineabl-
ity. |
| EIN 5307C   | ECS-IEMS Manufacturing Systems Engineering        | 3(3,2)  | PR: EIN 4364C. Computer numerical control (CNC), robotics, parts classification (GT) and manufacturing resource planning (MRP). |
| EIN 5317    | ECS-IEMS Training System Design                   | 3(3,0)  | PR: Senior standing, C.I. Automated material handling systems, industrial robots, automated guided vehicles, auto-

mated storage and retrieval systems, economics, jus-
tification. |
| EIN 5318    | ECS-IEMS Engineering Logistics                    | 3(3,0)  | PR: EIN 4391C. The study of the logistics life cycle, including planning, analysis and design, testing, production, distribution, and support. |
| EIN 5368C   | ECS-IEMS Forecasting                              | 3(3,0)  | PR: ESI 5219. Industrial applications of forecasting methods with emphasis on microcomputer-based packages. |
| EIN 5392C   | ECS-IEMS Tool Engineering and Manufacturing Analysis | 2(2,2)  | PR: EIN 4411C. Tool materials and design, tolerance technology, theory of metal cutting, and machineability. |
| EIN 5415C   | ECS-IEMS Tool Engineering and Manufacturing Analysis | 2(2,2)  | PR: EIN 4411C. Tool materials and design, tolerance technology, theory of metal cutting, and machineability. |
| EIN 5602C   | ECS-IEMS Expert Systems in Industrial Engineering  | 3(2,2)  | PR: EIN 4391C. Overview of basic concepts, architecture and con-
struction of expert systems in E. Intelligent simulation training systems, case studies and problems. |
| EIN 5607C   | ECS-IEMS Computer Control of Manufacturing Systems | 3(2,2)  | PR: EIN 4391C, and EIN 4411C or EML 4356C or C.I. |
UCF Courses and Descriptions

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 research areas, skills, funding, proposals, ethics, mentors, seminars, societies, conferences, presentations, interviewing, grants, and publishing.

ELD 4011 ED-CFTS 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-CFTS 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 polymers, 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 4223 ECS-MMAE 3(3,0) Deformation and Fracture of Materials: PR: EGN 3365. Plastic deformation, strengthening mechanisms, fatigue, fracture, and creep of materials.


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 equilibria in condensed solution and phase diagrams.

EMA 5108 ECS-MMAE 3(3,0) Surface Science: PR: PHY 2405 and C.I. Methods of chemical and physical analysis of surfaces, with emphasis on ultra-high vacuum spectroscopies 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 Kinetics: PR: Materials Thermodynamics. Topics include Arrhenious law, free energy, Johnson-Mehl equation, and heterogeneous reactions, mixing, electrodeposition, thermal analysis in kinetics. Graded S/U.


EMA 5504 ECS-MMAE 3(2,2) 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 5504 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 spectrometry. May be repeated for credit.

EMA 5584 ECS-MMAE 3(3,0) Biomaterials: PR: EGN 3365. Properties of natural and biological materials and their relation to microstructure, biocompatibility, specific applications in orthopedic, cardiovascular, visual, neural, and reconstruction implants.

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: Process of written and oral communications for instructional technologists; development of assertiveness and interpersonal skills; conducting training programs for employees; creating hard copy materials.

EME 5057 ED-ERTL 3(3,0) Communication for Instructional Systems: Application: 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 adult’s information and recreational needs; analysis, evaluation, and utilization of print and non-print materials.
Controller Design.

EML 4005 ECS-MMAE 3(3,0)

EML 5211 ECS-MMAE 3(3,0)
Continuum Mechanics: PR: EML 3500 or EAS 4200 or C.I. Introduction to tensors; deformation and strain; stress, balance laws; applications in Newtonian fluid dynamics and isotropic linear elasticity.

EML 5224 ECS-MMAE 3(3,0)
Acoustics: PR: EML 4220. CR: EML 5600. Elements of vibration theory and wave motion; radiation, reflection, absorption, and transmission of acoustic waves; architectural acoustics; control and abatement of environmental noise pollution; transducers.

EML 5228C ECS-MMAE 3(3,0)

EML 5237 ECS-MMAE 3(3,0)

EML 5245 ECS-MMAE 3(3,0)
 Tribology: PR: EGN 3365, EML 3311 and EML 3701. Principles of fluid film lubrication (liquid and gas, journal and thrust bearings), contact mechanics (rolling element bearings), design of bearings and load bearing surfaces, friction and wear of materials, tribotesting.

EML 5271 ECS-MMAE 3(3,0)

EML 5290 ECS-MMAE 3(3,0)

EML 5291 ECS-MMAE 3(3,0)
MEMS Materials: PR: EML 5080, EML 5211, or C.I. Introduction of materials that are frequently used for MEMS applications such as silicon, metal, ceramics...
and polymers. The course will focus on fundamental principles involved in structures and properties of the materials, and their applications in MEMS.

EML 5292 ECS-MMAE 3(3,0) Fundamental Phenomenon and Scaling laws in Miniature Engineering Systems: PR: EML 5060, EML 5291 or CI. Introduction to meso-, micro-, and nano-scales, and related terminology, constitutive relationships at these scales and how these relationships affect the behavior and performance of systems. Effect of miniaturization on a few common engineering systems.

EML 5311 ECS-MMAE 3(3,0) System Control: PR: EML 3312C; CR: EML 5060. Modern control theory for linear and non-linear systems; controllability and observability. Linear state feedback and state estimators, compensator design.

EML 5402 ECS-MMAE 3(3,0) Turbomachinery: PR: EML 3101, EML 4703 or EAS 4134. Application of the principles of fluid mechanics, thermodynamics, and aerodynamics to the design and analysis of steam and gas turbines, compressors, and pumps.

EML 5532C ECS-MMAE 3(3,0) Computer-Aided Design for Manufacturing: PR: EGN 4535C. Builds on introductory material covered in EML 4535C. Topics include computer modeling for the synthesis, simulation, design and manufacture of mechanical, thermal, and aerospace systems.

EML 5546 ECS-MMAE 3(3,0) Engineering Design with Composite Materials: PR: EML 5237. Mechanical components of structural composites under static, thermal, vibratory loads. Instability, laminarity and laminate theory, energy methods, failure theories, and structural joining methods.


EML 5605 ECS-MMAE 3(3,0) Applied HVAC Engineering: PR: EML 4600. Applications of HVAC systems design with the objective of optimizing energy efficiency, humidity control, ventilation and indoor air quality. May be repeated for credit.

EML 5606 ECS-MMAE 3(3,0) HVAC Systems Engineering: PR: EML 3011, EML 4142. EML 3024: Heating, ventilation, air-conditioning and refrigeration principles, system design and analysis. May be repeated for credit.


EMR 4011 ED-CFCS 3(3,0) Intro to Mental Retardation: Nature and needs of mentally handicapped students with emphasis on etiology, prevention, identification, and application of effective practices and recognition of trends and standards.

EMR 4362 ED-HSW 4(4,0) Teaching Students with Mental Handicaps: PR: EEX 2010. Relationship between the characteristics of students with mental handicaps and specialized instructional materials, strategies and curriculum.

EMR 4372 ED-CFCS 3(3,0) Curriculum Method and Materials for Retarded Persons: PR: Senior standing. Development of highly specialized techniques, curriculum and materials to be used with students with mental retardation.

ENC 1101 AS-ENG 3(3,0) Composition I: Expository writing with emphasis on effective communication and critical thinking. Emphasizing the writing process writing topics are based on selected readings and on student experiences. Course is graded with “A,” “B,” “C,” “NC” and “F.”

ENC 1101H AS-ENG 3(3,0) Honors Freshman Composition I: PR: Score of 60+ on TSWE of SAT or C.I. Expository writing with emphasis on effective communication and critical thinking. Emphasizing the writing process writing topics are based on selected readings and on student experiences. Course is graded with “A,” “B,” “C,” “NC” and “F.” Honors-level content.

ENC 1102 AS-ENG 3(3,0) Composition II: PR: ENC 1101 with a grade of “C” or better. Focus on extensive research in analytical and argumentative writing based on a variety of readings from the humanities. Emphasis on developing critical thinking and diversity of perspective. Course is graded with “A,” “B,” “C,” “NC” and “F.”

ENC 1102H AS-ENG 3(3,0) Honors Freshman Composition II: PR: ENC 1101H with a grade of “C” or better or C.I. Same as ENC 1102, with honors-level content. Note on Freshman English Program: ENC 1101 and 1102 must be taken before enrolling in any English course numbered above 1102. Course is graded with “A,” “B,” “C,” “NC” and “F.”

ENC 2127 AS-ENG 3(3,0) Grammar and Composition: A systematic study of grammar and mechanics to improve editing for clarity and accuracy in writing.

ENC 2210 AS-ENG 3(3,0) Writing for the Business Professional: PR: ENC 1102, Junior standing or C.I. Emphasis on clear expository writing of memoranda, reports, and articles in the student’s declared field of business.

ENC 2411C AS-ENG 3(2,1) Digital Literacy for the Liberal Arts: Designed to help students better understand how computer technologies have shaped our culture and ourselves; to become critical consumers of technology; to acquire a critical sensibility regarding the manner in which technology affects and is affected by texts.

ENC 3211 AS-ENG 3(3,0) Theory and Practice of Technical Writing: PR: ENC 1102, Junior standing, or C.I. Provides definition, history, scope, practices, and theoretical bases of technical writing and its relationship to general English studies.

ENC 3211H AS-ENG 3(3,0) Honors Theory and Practice of Technical Writing: PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Definition, history, scope, practices, and theoretical bases of technical writing and its relationship to general English studies.

ENC 3241 AS-ENG 3(3,0) Writing for the Technical Professional: PR: ENC 1102, Junior standing, or C.I. Instruction and practice in expository prose used in technical writing, layout and design of data, and translation of technical documents for the lay audience.

ENC 3241H AS-ENG 3(3,0) Honors Writing for the Technical Professional: PR: Permission of Honors and ENC 1102H or equivalent credit. Taught at Honors level. Instruction and practice in expository prose used in technical writing, layout and design of data, and translation of technical documents for the lay audience.

ENC 3250 AS-ENG 3(3,0) Professional Writing: PR: ENC 1102, Junior standing, and 12 upper division hours in the student's major. Major elements of professional writing with emphasis on composition of reports, proposals, letters, and memos.

ENC 3310 AS-ENG 3(3,0) Magazine Writing I: PR: ENC 1102. Intensive practice in description narration, exposition and argumentation; control of tone, mood, viewpoint, and level of diction. Applicable to article, essay, and short story writing.

ENC 3311 AS-ENG 3(3,0) Advanced Expository Writing: PR: ENC 1102. Practice of expository writing directed to general reader.

ENC 3905 AS-ENG 3(3,0) Directed experience in Writing: PR: ENC 1102, C.I. Individualized topics of study and/or research in writing with personalized faculty direction. May be repeated for credit.

ENC 3942 AS-ENG 3(3,0) Journal Writing Practicum: An interdisciplinary practicum in journal writing as a literary genre and a means of self-expansion.

ENC 4215 AS-ENG 3(3,0) Techniques of Technical Publications: PR: C.I. Study of new publishing technology, stressing composition and printing; word processing, automated text processing, methods of reproduction. Introduction of graphics; style, format, layout, and boardwork. Should be taken concurrently with ENC 4249.

ENC 4218 AS-ENG 3(3,0) Visual Elements in Documentation: PR: ENC 4293. Study and preparation of visuals and graphics in technical writing and documentation; use of computer graphics; slides; transparencies; charts; graphs; drawings.

ENC 4265 AS-ENG 3(3,0) Writing for the Computer Industry: PR: ENC 1102 and Junior standing, or C.I. This course addresses the special demands of writing for the computer industry.

ENC 4275 AS-ENG 3(3,0) Writing/Consulting: theory & practice: PR: C.I. Theory and practice of assessing and responding to writing from the standpoint of a collaborator, as opposed to evaluator.


ENC 4293 AS-ENG 3(3,0) Technical Documentation I: PR: ENC 3211 or ENC 3241. Practice in translating highly technical information to organized documentation: hardware, software, military specifications. Theory of designing and organizing technical manuals. Preparation of proposals. Interview skills.

ENC 4294 AS-ENG 3(3,0) Technical Documentation II: PR: ENC 4293. Practical application of editing theory to large ongoing projects from the student’s particular field. Should be taken concurrently with ENC 4215.

ENC 4295 AS-ENG 3(3,0) Technical Documentation III: PR: ENC 4294. Designing, writing, and illustrating manuals, e.g., repairs, maintenance or users. Project supervised by a member of a student’s major department or technical editor of a corporation.

ENC 4312 AS-ENG 3(3,0) Theory & Practice Persuasive Writing: PR: ENC 1102. A study of the theory and practice of persuasion, including logical emotional and ethical appeals.
dramatic literature.

ENL 5347 AS-ENG 3(3,0)

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 3201. Air resources engineering design, and operation of air pollution control systems.

ENV 4120C 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. Emphasis on 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 3201. 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 3201. Detailed investigation of principles of design and operation of wastewater treatment facilities. May be repeated for credit.

ENV 4561 ECS-CEE 4(4,0)
Environmental Engineering - Process Design: PR: ENV 3001 and CWR 3201. Water treatment and wastewater treatment design considerations with emphasis on the design and operation of water and wastewater treatment plants.

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)

ENV 5071 ECS-CEE 3(3,0)

ENV 5116C ECS-CEE 3(2,3)
Air Pollution Monitoring: PR: C.I. Air Pollution sampling techniques, equipment, and monitor siting. 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, S02, 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.

ENV 4004C AS-BIOL 4(2,6)

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)

ESE 4943 ED-TLP 7-12(0,35)
Internship II: Secondary: PR: ESE 3940 or EDE 3942. Student teaching in a secondary school under the direction of a certified classroom teacher. Scheduled concurrent seminars.

ESE 5214 ED-TLP 3(3,0)

ESE 4221 ECS-EMS 3(3,0)

ESE 4234 ECS-EMS 3(3,0)
Quality Engineering: PR: STA 3032. Basic concepts and techniques of quality control, applications of statistics in industrial research; design of quality assurance systems; reliability engineering.

ESE 4312 ECS-EMS 3(3,0)

ESE 4321 ECS-EMS 3(3,0)
Quantitative Techniques in Industrial Engineering: PR: ESI 4312. Extension of ESI 4321, with primary emphasis on Operations Research and statistical applications to industrial engineering problems.

ESE 4523C ECS-EMS 3(2,3)
Systems Simulation: PR: STA 3032, EGN 3210 or high level programming language. Methods and procedures for simulating large-scale systems with digital computers. High level programming and simulation languages are used.

ESE 5219 ECS-IEMS 3(3,0)
Engineering Statistics: PR: C.I. Discrete and continuous probability distributions, hypothesis testing, regression, nonparametric stats and ANOVA.

ESE 5227 ECS-IEMS 3(3,0)
Total Quality Improvement: PR: STA 3032 or equivalent. Quality improvement (QI) tools and techniques, advanced QI techniques, quality improvement systems, total quality management concepts and implementation, planning and management tools, and case studies.

ESE 5236 ECS-IEMS 3(3,0)
Reliability Engineering: PR: ESI 4234 or equivalent, or C.I. Reliability theory and modeling approaches. Topics include: failure data analysis, maintainability, reliability standards (DDO), software reliability, reliability in design, and electronic systems reliability.

ESE 5315 ECS-IEMS 3(3,0)
Research Methods in Industrial Engineering and OR Modeling: PR: MAP 2302; ESI 5219 or equivalent; ESI 4312; 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 queueing 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 5419C ECS-IEMS 3(2,2)
Engineering Applications of Linear and Nonlinear Optimization: PR: ESI 4312 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, largescale projects. PERT, CPN, 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)
Photonic Technology: PR: PHY 2053C, PHY 2054C, MAP 3401, MAC 2252, and MAC 2253. Course will introduce engineering technology students to the field of photonic. 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 protocol.

EST 4502C ECS-ENT 3(4,2)
Metrology and Instrumentation: PR: ETG 3514 or equivalent, EET 3905C or equivalent, and MAC 2253 or equivalent. An introduction to the basic concepts and terminology of metrology and instrumentation. Theory, procedures and techniques essential to industrial measurement and laboratory practice are covered.
ETC 4206 ECS-ENT 3(3,0) Construction Estimating: PR: MAC 1105, MAC 1114, EGN 1111C or equivalent, ETC 4242. Techniques of making estimates and computations of materials, labor, equipment, overhead costs and profits. Software packages are utilized.


ETC 4242 ECS-ENT 3(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.


ETC 4415C ECS-ENT 3(3,0) Applied Structural Design II: PR: ETG 3535C. Strength design of reinforced concrete members, foundations, slabs, and walls. Current code and specification requirements.

ETD 3350C ECS-ENT 3(2,2) Applied CADD: PR: Engineering Drawing and some CADD background. Course in computer-aided drafting/design provides the student with the opportunity to approach detailed and intricate drafting/design problems from a computer perspective.

ETG 3535C ECS-ENT 4(3,2) Applied Engineering Strength of Materials: PR: MAC 1105, MAC 1114, ETG 3541, PHY 2053C, 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.

ETG 3541 ECS-ENT 3(3,0) Applied Mechanics: PR: MAC 1105 and MAC 1114 and PHV 2053C or equivalent. Coplanar, parallel, concurrent, and non-current force systems. Centroids, CG’s, moments of inertia. Principles of dynamics, rectilinear motion and rotation, work, energy, power, impulse, momentum, and impact.

ETG 4950C ECS-ENT 3(1,4) Senior Design Project: PR: ETG 3541, EST 4520C, ETG 3535C 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 formal written report are required.


ETI 3418C ECS-ENT 3(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.

ETI 3421 ECS-ENT 3(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.

ETI 3651C ECS-ENT 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.


ETI 3690 ECS-ENT 3(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.

ETI 4150 ECS-ENT 3(3,0) Spacecraft Quality Assurance And Testing: PR: PHY 2053C. Quality assurance, reliability, and testing of space hardware and software, with the examination of designing, manufacturing, testing, and operation.

ETI 4186 ECS-ENT 3(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.

ETI 4205 ECS-ENT 3(3,0) Applied Logistics: PR: ETI 3116 or C.I. Introduction to logistics. Emphasis on practical applications. Includes systems engineering, cost systems effectiveness, reliability, maintainability, system functional analysis, logistics support analysis, life cycle cost analysis.

ETI 4381 ECS-ENT 3(3,0) Ground System Design: PR: PHY 2053C. 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.

ETI 4382C ECS-ENT 3(1,4) Launch Processing Technology: PR: or CR: ETI 4315 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.

ETI 4448 ECS-ENT 3(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.

ETI 4635 ECS-ENT 3(3,0) Technical Administration: 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.

ETI 4640 ECS-ENT 3(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 MTM are covered. May be repeated for credit.


ETI 4700 ECS-ENT 3(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.

ETI 4835 ECS-ENT 3(3,0) Rocket Propulsion Technology: PR: PHY 2053C, Calculus I, II, CAD. Principles of rocketry; solid, liquid and hybrid rocket stages; specific impulse computations; nozzle design; and nozzle designs; ignition mechanisms.

ETI 4836 ECS-ENT 3(3,0) Space Systems Technology: PR: PHY 2053C. Applied space technology, design of space systems, space environment, flight dynamics, atmospheric drag, power supply, communications technology. May be repeated for credit.

ETI 4837 ECS-ENT 3(3,0) Technology of Small Space Payloads: PR: PHY 2053C, Calculus I, II, CAD. Orbital trajectory design; analysis of vehicle sustained g-forces; vehicle vibration analyses; orbital maneuvering; atmospheric entry; launch windows; rocket apogee and down range computations; wind corrections and launch angles.

ETI 4839 ECS-ENT 3(3,0) Space Electro-Optics Technology: PR: PHY 2053C, Calculus I, II, CAD. Engineering aspects of current electro-optics and laser-optics technology in theory and application, including design, system integration, system alignment, system calibration, and testing.


ETM 4232C ECS-ENT 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.

ETM 4331C ECS-ENT 3(4,2) Applied Fluid Mechanics: PR: MAC 2253 or MAC 2311, PHY 2053C or equivalent. An introduction to the basic concepts of hydrostatics and hydrodynamics covering fluid statics, flow of ideal fluids, continuity of mass, impulse and momentum principles, conservation of energy, flow of fluid in pipes, etc.

ETM 4403C ECS-ENT 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.


ETM 4755 ECS-ENT 4(4,0) Applied Air Conditioning: PR: ETM 4331C, Analysis
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; conservatism; 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 communications, 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-Present.

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, industrial development, social movements, and international roles from 1700 - present.

EUH 3651 AS-HIST 3(3,0) War and Society: Evolution of weapons, tactics, strategy; role, social status, recruitment of soldiers; influence of military on governments; and international efforts to preserve peace.

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 Stalins’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 2000 and 2001 or C.I. German nationalism and militarism; World War I and Versailles Treaty; the Weimar Republic and the rise of the Nazis; Second World War, division and recovery.

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: 1485-1515: 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. War 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 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 WW II.

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 European Intellectual History: 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 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 develop-
ment.

EVT 4169 ED-TLP 3(3,0) Curriculum Development Techniques for Industry Training: The practical application of fundamental knowledge, important skills, alternate 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: An overview 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, mm cameras, basic lighting equipment, 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, Senior 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 only. 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-graphics techniques in 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 use 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 2107 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 Films: 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 Film or Cinema Studies major. Major film theories to the Second World War Period.

FIL 3504C AS-FILM 3(3,1) Film Theory and Criticism II: PR: Film majors or
null
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 and 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 3740 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 Bazin, Beckett, Buto, Camus, Malraux, and Sarraute.

FRW 4310 AS-LANG 3 (3,0) Seventeenth Century French Theatre: PR: FRW 3100. Cornelle, Racine, and Molère. 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 WWI, such as the works of Beckett, Camus, Claudel, Claudoux, Ionesco, and Sartre; different literary approaches will also be used.


FRW 4532 AS-LANG 3 (3,0) French Romanticism: PR: FRW 3100. Great poets and dramatists of the Romantic Movement: Hugo, Lamartine, Vigny, Musset, and others.

FRW 4552 AS-LANG 3 (3,0) Nineteenth Century French Literature: PR: FRW 3101. Realism and naturalism.

FRW 4820 AS-LANG 3 (3,0) Stylistics: PR: FRE 3420 or equivalent. An intensive 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 3003 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 (1,3) Intermediate Techniques of Food Production: PR: HFT 4250C. An advanced food production course which provides the student the opportunity to develop skills in pantry, garnishing, and con

FSS 4315 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 C.I. Methods and procedures for successful on and off premise catering functions. Emphasis on food and beverage preparation, menu planning, service and sales techniques. Laboratory class.

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.

GEO 1200 ECS-CEE 3 (3,0) Physical Geography Laboratory: CR: GEO 1200. Analysis of climatic and meterological methods topographic and geological maps, landforms, and landscape interpretation.

GEO 2370 ECS-CEE 3 (3,0) Resources Geography: Analysis of basic principles and problems associated with development, use, conservation, and management of natural resources, with special emphasis on the United States.

GEO 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.
GER 4176C AS-LANG 4(2,4)
Advanced GIS Applications in Environmental Studies: PR: GEO 3151C. Use of GIS software for environmental applications such as conservation management.

GER 1005 AS-LANG 1(0,1)
German Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, German songs, and opera libretti.

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 1121 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 1121 or C.I. Elementary 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 Study Abroad: 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 diction and pronunciation. 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 3000 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 nationalist 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 3101 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)
Children's Literature: PR: GER 2201. 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-HPA 3(3,0)
Geronotolog: 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-HAP 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 3703C or PET 4531 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.

GEO 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 2190C AS-ART 3(2,4)

GRA 3100C AS-ART 3(2,4)

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. Further development of studio techniques and problems in graphic design with emphasis on digital prepress.

GRA 3113C AS-ART 3(2,4)
Type & Design: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C. A survey of type, calligraphy and letterforms and their appropriate use as subject matter for graphic design and publication.

GRA 4195C AS-ART 3(2,4)
Advanced Graphic Design: PR: Acceptance in Graphic Design Concentration, ART 2201C, ART 2203C, ART 2300C, ART 2301C, GRA 3112C, and a satisfactory portfolio review or C.I. Practical studio problems, with emphasis on organization of visual design elements.

GRA 4196C AS-ART 3(2,4)
Special Problems in Graphic Design: PR: ART 2201C, ART 2203C, ART 2300C, ART 2301C, GRA 4195C, 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:
Prerequisites:

- GRE 1120H: Continuation of Elementary Greek I.
- GRE 2230H AS-LANG: Reading 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: 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. Continuation of HBR 1120.
- HBR 1121 AS-JUD: Elementary Modern Hebrew Language and Culture II: PR: HBR 1120 or equivalent. Continuation of HBR 1120.
- HBR 2200 AS-JUD: Intermediate Modern Hebrew I: PR: HBR 1121 or equivalent. Designed to continue the study of Modern Hebrew; increase proficiency in conversation, reading and writing skills, and further expose students to Israeli culture.
- HBR 3410 AS-JUD: Conversational Israeli Hebrew: PR: HBR 1120, HBR 1121 or equivalent. CI. Study and practice of contemporary conversational Israeli Hebrew.

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2003-2004 Undergraduate Catalog
Hospitality Management. Students apply their cumulative concepts and theories applicable to the Hospitality Industry including evaluating management contracts, franchising, and leasing.

Hospitality Development Analysis: PR: HFT 3431 and junior standing or C.I. A review of methodological operations, financial, and marketing aspects of analyses for hotel development projects.

Vacation Ownership and 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.

Managing the Employee Experience in the Theme Park and Attractions Industry: PR: HFT 4755. The management of quality service within the theme parks and attractions industry.

Operational Issues in the Theme Park and Attractions Industry: PR: HFT 4755. Organizational structure and operational culture of theme parks and attractions.

Sanitation in the Food Service Industry: PR: HFT 1000 and junior standing or C.I. An analysis of the leadership styles of foodservice managers in the foodservice industry.

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.


Cooperative Education: Provides paid, pre-professional work experience related to the students' major while they continue to attend school. Requires achievement of major-related learning objectives.

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.

Health Record Organization and Management: PR: HIM 3090. Nomenclature/classification systems; health and vital statistics; data analysis and presentation; indexing; computer abstracting; and approving agencies; medical staff organization.

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.

Professional Practice Experience II: PR: HIM 3090L, HSC 3531. CR: HIM 3310C. Health record and coding systems; billing and coding files; inpatient health information retrieval; ICD-9-CM; DRGs; encoders.

Hospitality Business Consulting: PR: HFT 3431 and junior standing or C.I. An analysis of the leadership styles of restaurant industry founders and executives.

Hospitality Enterprises Management II: PR: C.I. Planning and implementing strategies for managing the human resource in the hospitality/tourism industry.

Strategic Management in Hospitality Industry: PR: Completion of Hospitality Management Core program. Principles of strategic decision making in various hospitality and tourism organizations; lectures, class discussions, and group case analysis presentations.

Hospitality Facility Planning and Design: PR: HFT 1000 and junior standing or C.I. A systematic approach to Hospitality Facilities. Emphasis on systems and strategies applied to the hospitality and tourism industry.

Hospitality Technology Applications for Hospitality Management: PR: HFT 2254 and junior standing; or C.I. Principles of facility planning, layout and design for dining, kitchen, guest room, lobby, and service areas.

Advanced Trade Show Management: PR: HFT 3273 or C.I. A seminar discussing the main geographies of travel management/operations.

Product Development in Theme Parks and Attractions: 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.

Operational Issues in the Theme Park and Attractions Industry: PR: HFT 4755. Organizational structure and operational culture of theme parks and attractions.

Sanitation in the Food Service Industry: PR: HFT 1000 and junior standing or C.I. An analysis of the leadership styles of foodservice managers in the foodservice industry.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC 3110</td>
<td>Medical Terminology</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>HSC 3149</td>
<td>Organization and Management for Health Agencies</td>
<td>3(3,0)</td>
<td>PR: HSC 3122; Organization and management of health care agencies, including procedural applications.</td>
</tr>
<tr>
<td>HSC 4120</td>
<td>Community Health: Health Care</td>
<td>3(3,0)</td>
<td>PR: HSC 3122; Historical, sociocultural and economic factors in community health; current community health problems; interphase of governmental, voluntary and private agencies.</td>
</tr>
<tr>
<td>HSC 4109</td>
<td>Principles of Managed Care</td>
<td>3(3,0)</td>
<td>PR: HSC 3122, HSA 3170, HSA 4120, HSA 4180, HSA 4193, HSC 4500. Course will introduce the contractual, financial, and practice pattern components of managed care.</td>
</tr>
<tr>
<td>HSC 4193</td>
<td>Health Care Automation</td>
<td>3(3,0)</td>
<td>PR: HSC 3122, CGS 2100. Analysis and design of computerized systems for health data and health administration.</td>
</tr>
<tr>
<td>HSC 4220</td>
<td>Targeted Patient Management</td>
<td>3(3,0)</td>
<td>PR: HSC 3122; Concepts and process of patient care planning and management in a long term care facility.</td>
</tr>
<tr>
<td>HSC 4656C</td>
<td>Health Information Department Management</td>
<td>3(2,2)</td>
<td>PR: HSC 3116C, HIM 4256C, CR: HIM 4256C. Principles and mechanics of quality improvement; utilization review; case management and risk management.</td>
</tr>
<tr>
<td>HSC 4700</td>
<td>Health Sciences Research Methods</td>
<td>3(3,0)</td>
<td>PR: HSC 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.</td>
</tr>
<tr>
<td>HSC 5177</td>
<td>Foundations of Health Care Finance</td>
<td>3(3,0)</td>
<td>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.</td>
</tr>
<tr>
<td>HSC 5197</td>
<td>ICD9 Coding for Health Services Administrators</td>
<td>3(3,0)</td>
<td></td>
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<tr>
<td>HSC 5258</td>
<td>CPT Coding for Health Services Administrators</td>
<td>3(3,0)</td>
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</tr>
<tr>
<td>HSC 5198</td>
<td>Health Care Computer Applications</td>
<td>3(3,0)</td>
<td>PR: Graduate status. Overview of health information systems, with an emphasis on computer applications. Discussion of software and hardware requirements.</td>
</tr>
<tr>
<td>HSC 5192</td>
<td>Medical Terminology</td>
<td>3(3,0)</td>
<td></td>
</tr>
<tr>
<td>HSC 5100</td>
<td>Medical Self Assessment</td>
<td>3(2,2)</td>
<td></td>
</tr>
<tr>
<td>HSC 5149</td>
<td>Introduction to Pharmacology</td>
<td>3(3,0)</td>
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</tr>
<tr>
<td>HSC 5351</td>
<td>Medical Terminology</td>
<td>3(3,0)</td>
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<tr>
<td>HSC 5353C</td>
<td>Medical Terminology</td>
<td>3(2,2)</td>
<td></td>
</tr>
<tr>
<td>HSC 5360</td>
<td>Health Law</td>
<td>3(3,0)</td>
<td>PR: HSA 3122, HSA 3170, HSA 4120, HSA 4180, HSA 4193, and HSC 4500. Safety, liability and loss control issues with emphasis on risk retention, risk reduction and risk transfer in health care.</td>
</tr>
</tbody>
</table>

**UCF Courses and Descriptions**

**HPCs, APGs, encoders:**

**HIM 4344C** HPA-HIM 4(3,2)

**Health Information Department Management:** PR: HSC 3116C; MAN 3025. Personnel administration; budgeting; forms analysis; work distribution and simplification; equipment selection; ergonomics and space planning.

**HIM 4506C** HPA-HIM 3(2,2)

**Quality Management:** PR: HSC 3116C, HIM 4256C. Vitalization of information systems, management and patient care in the health care industry, systems analysis, system design and project management concepts.

**HIM 4656C** HPA-HIM 3(2,2)

**Health Information Management Systems:** PR: HSA 4193, HIM 4226C. Vitalization of information systems, management and patient care in the health care industry, systems analysis, system design and project management concepts.

**HIM 4676** HPA-HIM 3(3,0)

**Professional Development and Issues in Health Information Management:** PR: HIM 4344C, HIM 4506. Analysis of management functions in health care setting; the HIM professional as an educator; problem-solving techniques; professional ethics; alternative careers.

**HIM 4836L** HPA-HIM 2(0,4)

**Professional Practice Experience III:** PR: HIM 3096C, HIM 4344C, HIM 4506, HIM 4836L. Inpatient coding; health and vital statistics; JCAHO accreditation; indexing; abstracting; medical staff organization and credentialing.

**HIM 4837L** HPA-HIM 2(0,4)

**Professional Practice Experience IV:** PR: HIM 4256C, HSA 4120, HSA 4180, HSA 4193. Vitalization of information systems, management and patient care in the health care industry, systems analysis, system design and project management concepts.

**HIM 4838** HPA-HIM 5(0,15)

**Management Affiliation:** PR: All other required courses. Assignment to a selected health care facility serving in an administrative capacity under the direction of a Registered Record Administrator; lab exercises.

**HIS 3462** AS-HIST 3(3,0)


**HIS 3949** AS-HIST 2(0,8)

**Cooperative Education in History:** PR: Departmental permission required before registering. Cooperative education experience in history. May be repeated. Graded S/U.

**HIS 4150** AS-HIST 3(3,0)

**History and Historians:** PR: C.I. A study of European and American historiography. May be repeated once for credit.

**HIS 4994** AS-HIST 3(3,0)

**Internship in Public History:** PR: C.I. The Public History Internship is a one-semester course in which undergraduate history majors explore and gain experience in public history professions.

**HIS 4970** AS-HIST 3(3,0)

**Senior Thesis:** Original research paper available to advanced history majors; topics to be selected in consultation with a directing professor.

**HIS 5067** AS-HIST 3(3,0)

**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.
HSA 4180. Principles of law as applied to the health field, with special reference to health practices.

HSC 4008 AS-HUM 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 AS-HUM 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 AS-HUM 3(3,0)

HSC 4550 AS-HUM 3(3,0)

HSC 4564 AS-HUM 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 AS-HUM 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 AS-HUM 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-PHI 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-PHI 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-PHI 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-PHI 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-PHI 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-PHI 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-PHI 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-PHI 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-PHI 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-PHI 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-PHI 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-PHI 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-PHI 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-PHI 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-PHI 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 ethos and pathos.

HUM 4330 AS-PHI 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 performatives, bodily and virtual performances, self-identity, and the politics of performance.

HUM 4393 AS-PHI 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-PHI 3(3,0)
Religion and the Arts: PR: One of: HUM 2211, HUM 2230, ARH 2030, ARH 2061, or REL 2300. Art, music, dance, and ritual practices in religions traditions, with emphasis on the contemporary.

HUM 4554 AS-PHI 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-PHI 3(3,0)
Applied Contemporary Humanities: PR: HUM 5553. Development of an applied research project relevant to contemporary cultural issues, using Humanities theories and methods.

HUM 5803 AS-PHI 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 AS-HUM 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 AS-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 5937 AS-HUM 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 with a grade of B or better: IDS 1040C, GEB 1091C, HSC 1931C, ENC 1101C, EGN 1036C, EDG 1005, or FDR 1930C. Experiential leadership in an appropriate setting with 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) Media Production I: PR: IDS 2680 and AND 2000C. 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 both 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 for those who have had ART 2200C. 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 3150, ECO 4302, GEO 3151C, GEO 4176C and PUP 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 2000C 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 4688C AS-DIG 3(2,2) Digital Media Production II: PR: IDS 3683. 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 I: PR: IDS 4688C and COP 2500C or COP 3502C. Media in support of electronic commerce on the Internet. Emphasis on the artistic and creative components supporting the business aspects of electronic commerce. Project oriented.

IDS 4706 AS-DIG 3(3,0) Creative Digital Devices: PR: IDS 3701C and ART 2200C. 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 multidisciplinary 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 5719 UCF-IDS 3(3,0) Quantitative 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-PSYCH 3(3,0) Industrial/Organizational Psychology: PR: PSY 2014 or C.I. Psychological theories and principles applicable to problems in industrial organizations.

INP 3141C AS-PSYCH 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-PSYCH 3(3,10) Industrial/Organizational Field Work: PR: C.I. An opportunity for advanced undergraduate psychology majors to become involved in the application of I/O psychology to local organizations.

INP 4056 AS-PSYCH 3(3,0) Advanced Industrial Psychology: PR: INP 3004 and PSY 3214C. Application of psychological principles to industrial problems. Topics include selection, training, performance appraisal, job design, and work environment.

INP 4313 AS-PSYCH 3(3,0) Organizational Psychology: PR: INP 3004. Analysis of the psychological principles underlying individual and group behavior in an organizational setting. Topics include group dynamics, leadership and participation, intergroup behavior, and organization development.

INP 5825 AS-PSYCH 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 international politics and foreign policy in Africa, with particular attention on U.S.- African relations.
INR 4030 AS-POLS 3(3,0) Diplomacy: PR: POS 2041, Junior standing or C.I. Concepts, theories, and methods of contemporary diplomacy; diplomatic processes in the international arena.

INR 4035 AS-POLS 3(3,0) International Political Economy: The international politics of regional and global economic interdependence, with emphasis upon North-South relations, the New International Economic Order, OPEC, and multinational corporations.

INR 4047 AS-POLS 3(3,0) Immigration Policy: PR: POS 2041, Junior standing or C.I. Analysis of the complex subject of immigration, including U.S. and comparative immigration policy, illegal immigration, alien smuggling, and statelessness and their political/security impact.


INR 4076 AS-POLS 3(3,0) Global Drug Policy: PR: POS 2041, Junior standing or C.I. International drug control issues, policy formulation and enforcement, impact of government and political economic systems on drug policy. Selected Latin American and Third World cases.

INR 4085 AS-POLS 3(3,0) Women, Gender, and Globalization: PR: Junior standing. Feminist and gender perspectives in International Relations, Globalization, and International Political Economy.

INR 4102 AS-POLS 3(3,0) American Foreign Policy: Development of American foreign policy, with emphasis on the role and policies of the United States in the contemporary world.

INR 4104 AS-POLS 3(3,0) Topics and Cases in American Foreign Policy: PR: POS 2041, Jr. standing or C.I. General or intensive analysis of problems or aspects of U.S. foreign policy. Issues may include September 11th, homeland security, counter-terrorism, policymaking and decision-making and intelligence.

INR 4114 AS-POLS 3(3,0) American Security Policy: PR: POS 2041, Junior standing, or C.I. Study of the evolution of American security policy since World War II, including consideration of the social and political costs involved and means of control.

INR 4115 AS-POLS 3(3,0) Strategic Weapons and Arms Control: Control of strategic weapons and their impact. Technological and policy aspects, including nuclear proliferation.

INR 4224 AS-POLS 3(3,0) Contemporary International Politics of Asia: Examinations of the foreign policies of major and secondary powers in Asia, with particular attention to China and Japan.

INR 4225 AS-POLS 3(3,0) The Vietnam War: Background of events leading to America's involvement in Indochina, the course of the Vietnam War, and the lessons which that war impart.

INR 4243 AS-POLS 3(3,0) International Politics of Latin America: Study of contemporary U.S.-Latin American relations, inter-American politics and organization, and the role of Latin America in the world.

INR 4304 AS-POLS 3(3,0) Issues in International Public Policy: PR: POS 2041, Junior standing or C.I. Endogenous and exogenous variables, including policy analysis and decision-making, which influence select international public policy issues.

INR 4335 AS-POLS 3(3,0) Coercion in International Politics: Examination of the role of coercive techniques among states in a nuclear age, ranging from nuclear strategy and deterrence to the use of national liberation and coups.

INR 4351 AS-POLS 3(3,0) International Environmental Law: PR: Junior standing or C.I. Examination of global efforts to establish a treaty regime for environmental protection of earth's biosphere when challenged by national sovereignty and economic and cultural diversity.

INR 4401 AS-POLS 3(3,0) International Law I: PR: Junior standing or C.I. The nature, evolution, and sources of international law and such subareas as recognition of states and governments, expropriation, nationality, and aliens.

INR 4402 AS-POLS 3(3,0) International Law II: PR: INR 4401 or C.I. Examination of various sub-areas of international law, including maritime law, laws of the sea and seabed, air law, outer space, neutrality, and laws of war.

INR 4404 AS-POLS 3(3,0) Space Law: Examination of the legal regime of outer space from both international and national perspectives, and the legal problems arising from human activity in space.

INR 4502 AS-POLS 3(3,0) International Organizations: The study of the structure and workings of international organizations of cooperation, including the UN, its affiliates, and various regional organizations.

INR 4603 AS-POLS 3(3,0) International Relations Theory: PR: INR 2002. Theoretical trends prevalent in the study of international relations, including realism, liberalism, Marxism, feminism, and post-modernism.

INR 4714 AS-POLS 3(3,0) Politics of International Trade Policy: PR: INR 2002. Key actors and processes of international trade policy-making at the sub-national, nation-state, regional, and global levels of analysis.

ISM 3005 BA-MIS 3(3,0) MIS Techniques: PR: CGS 2100. Introduction to computer use required of users and developers of management information systems.

ISM 3011 BA-MIS 3(3,0) Management Information Systems: PR: CGS 2100 or CGS 1060. An introduction to the management and use of information technology organizations.

ISM 3011H BA-MIS 3(3,0) Honors Management Information Systems: PR: CGS 2100 or CGS 1060, permission of Honors Program, Management and use of information technology in organizations.

ISM 3013 BA-MIS 3(3,0) Information Systems Management: PR: CGS 2100 or CGS 1060, and MAC 1105 or MGF 1106, and ISM 3011. For non-majors only. The Course introduces fundamental concepts and methods related to the management of information systems in organizations.

ISM 3043 BA-MIS 3(3,0) Society and Technology: PR: CGS 2100 or CGS 1060, and MAC 1105 or MGF 1106, and ISM 3011. For non-majors only. Explores societal issues related to technology. Topics include technology ethics, privacy and security, and access inequities.

ISM 3214 BA-MIS 3(3,0) Personal Database Productivity: PR: CGS 2100 or CGS 1060, and MAC 1105 or MGF 1106, and ISM 3011. For non ISM majors only. The use of data/bases and data products. Emphasizes modern tools for accessing organizational data, data mining and reporting.

ISM 3424 BA-MIS 3(3,0) Computer-Aided Decision Making: PR: CGS 2100 or CGS 1060, and MAC 1105 or MGF 1106, and ISM 3011. For non ISM majors only. Prepares the student to use computer-based tools to assist in making organizational decisions. Also includes a component on problem solving techniques.

ISM 3482 BA-MIS 3(3,0) Electronic Commerce: PR: CGS 2100 or CGS 1060, and ISM 3011. For non-MIS Majors only. Basic electronic commerce and technologies. Students are required to develop an e-commerce related business plan and build a prototype Website using a tool.

ISM 3521 BA-MIS 3(3,0) Business Applications: PR: CGS 2100 or CGS 1060, and MAC 1105 or MGF 1106, and ISM 3011. MIS majors may not receive credit for this course. Advanced topics concerning the use of application software in organizations. Focus on integration of applications.

ISM 3530 BA-MAN 3(3,0) Quality & Productivity Management: PR: GEB 3031 and MAN 3025. An examination of the principles and theories of quality and operations management in manufacturing and service organizations.


ISM 4113 BA-MIS 3(3,0) Information Systems Analysis and Design: PR: ISM 4212, ISM 3005. Structured approaches to the development of computer-based information systems in business.


ISM 4133 BA-MIS 3(6,0) Information Systems Analysis, Design, and Implementation: PR: ISM 3005, ISM 4212. Same as ISM 4113 and ISM 4130. Comprehensive coverage of analysis, design, and implementation of information systems.

ISM 4212 BA-MIS 3(3,0) Database Management: PR: ISM 3005 and ISM 3011. Design and implementation of relational database in organizations.

ISM 4220 BA-MIS 3(3,0) Distributed Information Systems: PR: ISM 3005 and ISM 3011. Computer networking and communications. Managerial and technical dimensions of client/server and other modes of distributed and decentralized computing in business. Distributed database design and implementation.

ISM 4228 BA-MAN 3(3,0) Advanced Distributed Information Systems: PR: ISM 4220. Provides students with in-depth, hands-on experience with networking hardware and software. Teamwork emphasized in acquiring a master of networking concepts.
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-BUS 3(3,0) Technology Management: PR: ISM 4113, MAN 3025, Junior Standing. The theory and strategy of the design, development, adoption, and management of new information technologies.


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-BUS 3(3,0) 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 Fiction and the Social Sciences: A multimedia examination of not-so-far 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 1121 AS-LANG 4(4,1) Elementary Italian Language and Civilization II: PR: ITA 1120 or equivalent. Continuation of ITA 1120.

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, study of syntax, idiomatic expression, extensive readings, and further study of Italian culture.

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 2210 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 2210 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 2210 or equivalent. Vocabulary building with systematic training in diction and pronunciation. Speeches and oral presentations as well as production and delivery of real-life dialogues.

ITA 4500 AS-LANG 3(3,0) Italian Civilization: PR: ITA 2210. 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 2210. 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 2210. Main currents and writers in Italian literature from the 15th century to the present.

ITW 3600 AS-LANG 3(3,0) Dante’s Inferno: PR: ITW 3100. An in-depth study of Dante’s Inferno. In English.

JOU 2100C AS-COMM 3(3,1) News Reporting: PR: Journalism Major, Communication Pending, or Magazine Writing Minor. Newspapers and writing for the mass media. Students must earn a “C” (2.0) or better to use this course as a prerequisite for subsequent Journalism courses.

JOU 3004 AS-COMM 3(3,0) History of American Journalism: Development of mass media, leading innovators, and the media role in the nation’s history.

JOU 3100C AS-COMM 3(3,1) Advanced Reporting: PR: Journalism major or Magazine Writing minor, meet Grammar Proficiency standard, and a minimum grade of “C” (2.0) in JOU 2100C. Advanced information-gathering and development of news writing skills.

JOU 3200 AS-COMM 3(3,0) Editing I: PR: Journalism major or Magazine Writing minor, meet Grammar Proficiency standard, and a minimum grade of “C” (2.0) in JOU 2100C. Editing copy, writing headlines, managing newsroom operations.

JOU 3202 AS-COMM 3(3,0) Editing II: PR: Journalism major or Magazine Writing minor, JOU 3200, and a minimum grade of “C” (2.0) in JOU 2100C. Practical aspects of editing. Principles of design. Practice in editing and layout.

JOU 3510 AS-COMM 3(3,0) Magazine Publishing: PR: Journalism major or Magazine Writing minor, and a minimum grade of “C” (2.0) in JOU 2100C. The magazine industry, emphasizing business operations and current topics.

JOU 4181 AS-COMM 3(3,0) Public Affairs Reporting: PR: Journalism major, and a minimum grade of “C” (2.0) in JOU 2100C. Reporting on city, county and state government.

JOU 4224 AS-COMM 3(3,0) Magazine Editing and Production: PR: Junior standing or C.I. The magazine industry, including writing and editing skills, and editorial, business, and production requirements.

JOU 4300 AS-COMM 3(3,0) Feature Writing: PR: Journalism major or Magazine Writing minor. Writing reviews of movies, plays, television programs, concerts, books, and other cultural works.

JOU 4308 AS-COMM 3(3,0) Freelance Writing: PR: Journalism major or Magazine Writing minor. A study of the techniques and procedures of freelance writing, including the preparation of several manuscripts.

JOU 4340C AS-COMM 3(1,3) On-line Journalism I: PR: A minimum grade of “C” (2.0) in JOU 2100C, and PUR 3100. The development, impact and problems of using the Internet as a journalistic tool. Students will write and design news for the Web.

JOU 4341C AS-COMM 3(1,3) On-line Journalism II: PR: JOU 4340C. Study, design, and development of on-line journalism materials.

JPN 1120 AS-LANG 4(4,1) Elementary Japanese Language and Civilization I: PR: JPN 1120 or equivalent. A study of the Japanese language through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in the language.


JPN 2200 AS-LANG 3(3,1) Intermediate Japanese Language and Civilization I: PR: JPN 1121 or equivalent. This course aims to aid in acquiring and refining the acquisition of the four skills in modern Japanese: speaking, listening, reading, and writing. The emphasis is on accurate communication in Japanese. The culture of Japan will also be studied.

JPN 2201 AS-LANG 3(3,1) Intermediate Japanese Language and Civilization II: PR: JPN 2200 or equivalent. Continuation of JPN 2200 with emphasis on Japanese civilization.

JST 3120 AS-JUD 3(3,0) Hebrew Scriptures: PR: ENC 1102, Junior standing. The Hebrew Bible (Old Testament, in translation) in historical, social, religious, cultural and literary contexts.

JST 3125 AS-JUD 3(3,0) The Book of Job: PR: Jr standing, ENC 1102. A textual-thematic study of Book of Job in English translation, exploring the Book of Job as literature, theology and ethics.

JST 3126 AS-JUD 3(3,0) Romantic Love in the Bible: PR: ENC 1102, Junior standing. The dimensions of romantic love in the Hebrew Bible, focusing on the depiction of human feelings of love and relationship; the nature of man-woman interactions in ancient Israel.

JST 3144 AS-JUD 3(3,0) Dead Sea Scrolls: PR: Junior standing or C.I. The Dead Sea Scrolls, their literary and historical context, and significance.

JST 3401 AS-JUD 3(3,0) The Jewish People I: Introduction: A survey introduction of the history and culture of the Jewish people from the beginnings of Judaism in the biblical era through the Greco-Roman and rabbinic periods.

JST 3402 AS-JUD 3(3,0) The Jewish People II: The Life and History of the Jews in the medieval and modern worlds.

JST 3550 AS-JUD 3(3,0) Introduction to Modernism into Judaism: The transition from traditional Judaism to modern Judaism in the 18th century, as epitomized by Moses Mendelssohn and writers of the Jewish Enlightenment (in translation).

JST 3701 AS-JUD 3(3,0) History of the Holocaust: A comprehensive study of the Holocaust from 1933-1945, discussing the persecution of German Jews and the annihilation of the Jews in Europe.

JST 3751 AS-JUD 3(3,0) Literature of the Holocaust: A study of the traumatic experience of the Holocaust in Europe as expressed and depicted in contemporary Jewish and Hebrew Literature.

JST 3810 AS-JUD 3(3,0) The Jewish National Movement and Roots of Zionism: Roots of Zionism and Jewish nationalism and their relationship to modern anti-semitism, through analysis of European Jewish history and society.

JST 3820 AS-JUD 3(3,0) Modern Hebrew Culture: The Development of the State of Israel: Political and ideological struggle for the establishment of the State of Israel, with emphasis on forces which shaped contemporary Israeli society and politics.

LAE 4314 ED-TLP 3(3,0) Language for Children: PR: Phase I or C.I. General survey of books and materials; criteria for analysis and evaluation; types of books available considered in terms of interests, needs, and abilities of children.

LAE 4314 ED-TLP 3(3,0) Language Arts in the Elementary School: PR: Phase I or C.I. Content, principles, materials, and techniques involved in teaching, speaking, listening, writing, and spelling in the elementary school; organizing for instruction.

LAE 4342 ED-TLP 3(3,0) Teaching Language and Composition: PR: EDG 4323; CR: LAE 4360 and ESE 9490. Techniques and methods in teaching grammar, usage, dialect, and composition; includes meeting the needs of the new English language learner.

LAE 4360 ED-TLP 4(3,2) English Instructional Analysis: PR: EDG 4323. Course objectives for a school curriculum and methods and materials which have special application for teaching English at the middle grades and high school.

LAE 4361 ED-TLP 3(3,0) Literacy Strategies for Middle and High School: PR: Meet College of Education Admission requirements, or C.I. Theory, teaching strategies, and resources for effective middle and high school reading programs, to assist pre-service teachers to understand content reading.

LAE 4464 ED-TLP 3(3,0) Survey of Adolescent Literature: This course is designed to explore adolescent literature from both an educational and an historical perspective.

LAE 5195 ED-TLP 3(3,0) CFWP Teacher Consultant: PR: C.I. This course is designed for Fellows of the CFWP Summer Institute who will plan, practice, and present writing inservice components to public schools.

LAE 5295 ED-TLP 1-3(1-3) Writing Workshop I: PR: C.I. Students will engage in exploration and practice of effective writing strategies. May include teaching small groups of students. May be repeated for credit.

LAE 5319 ED-TLP 3(3,0) Methods of Elementary School Language Arts: PR: EDG 4323. Principles, procedures, organization and current practices in reading, writing, listening, and talking.

LAE 5337 ED-TLP 3(3,0) Literacy Strategies for Middle and Secondary Teaching: PR: Graduate standing or C. I. Designed to assist teachers and graduate students in understanding the adolescent learner. This course will examine theory, strategies, research, resources and implementation options for effective middle and secondary literacy programs.

LAE 5338 ED-TLP 3(3,0) Teaching Writing in Middle and High School: PR: EDG 6236 or C.I. Techniques and methods in teaching dialects, semantics, and the various grammars within the context of writing.

LAE 5346 ED-TLP 3(3,0) Methods of Teaching English Language Arts: PR: EDG 6236 or C.I. Designed for alternative certification and Masters of Arts students to explore the strands, methods and materials related to school curriculum in teaching English.

LAE 5367 AS-ENG 3(3,0) English Composition and Literature for Teachers of Advanced Placement: PR: Graduate standing and C.I. A two-week summer institute for secondary school teachers preparing to teach Advanced Placement courses.

LAE 5415 ED-TLP 3(3,0) Children’s Literature in Elementary Education: Survey of children's literature: criteria for selection according to literary elements and child development needs. Methods for presenting to children; integrating literature with elementary curricula.

LAE 5465 ED-TLP 3(3,0) Literature for Adolescents: PR: Senior standing or C.I. Selecting and evaluating books for adolescents with emphasis on the use of literature in the development of young people.

LAE 5495 ED-TLP 3(3,0) Assessing Writing: PR: C.I. Students will explore a variety of strategies for assessing students’ writing, including holistic scoring, primary trait scoring, and portfolio assessment.

LAE 5495 ED-TLP 3(3,0) Assessment Writing: PR: C.I. Students will explore a variety of strategies for assessing students’ writing, including holistic scoring, primary trait scoring, and portfolio assessment.


LAE 3400 AS-HIST 3(3,0) History of Mexico and Central America: PR: EUH 2000 and 2001 or C.I. A survey of Mexican and Central American history from Pre-Columbian times to the present.

LAE 3470 AS-HIST 3(3,0) History of the Caribbean: PR: EUH 2000 and 2001 or C.I. History of Cuba, Puerto Rico, Dominican Republic, and Haiti from Pre-Columbian times to the present.

LAE 5713 AS-HIST 3(3,0) Colloquium in U.S.-Latin American Relations: PR: Senior Standing and C.I. The course will analyze U.S.-Latin American relations from a historical perspective. It will be presented through readings and discussion of selected materials.

LAS 4023 AS-AAS 3(3,0) African Caribbean Experience: PR: Junior standing or C.I. Interdisciplinary study of the evolution of African Caribbean culture, its influence on institutions, social and political movements, and contemporary Caribbean society.

LAT 1120 AS-LANG 4(4,1) Elementary Latin Language and Civilization I: Introduces the student to Latin culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language.

LAT 1120H AS-LANG 4(4,1) Honors Elementary Latin Language and Civilization I: Introduces the student to Latin culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language, with honors-level content.


LAT 1121H AS-LANG 4(4,1) Honors Elementary Latin Language and Civilization II: PR: LAT 1120 or equivalent. Continuation of LAT 1120H, with honors-level content.


LIN 3640 AS-PSYCH 3(3,0) Psychology of Oral Communication: Psychological principles involved in the communicative process, with application to individuals and groups.

LIN 3716 HPA-COMD 3(3,0) Language Development: Birth Through 8 Years.: PR: DEP 2004. Study of the language acquisition process in children from birth through eight years and how meaning is conveyed through sounds, words, and sentences.

LIN 3717 HPA-COMD 3(3,0) Language Development: 9 - 18 Years.: PR: LIN 3716. Study of the language acquisition process in children from nine through eighteen years and how meaning is conveyed through sounds, words, and sentences.
LIN 4100 AS-ENG 3(3,0)

LIN 4643 AS-ENG 3(3,0)

LIN 4660 AS-ENG 3(3,0)
Linguistics and Literature: PR: LIN 3010. Investigation of language study as an aid to understanding literature. Topics include analysis of figurative language, languages as characterization, cohesion, sentence and discourse structure.

LIN 4680 AS-ENG 3(3,0)
Modern English Grammar: PR: ENC 1102 and Sophomore standing. Emphasis upon the analysis and comparison of traditional, structural, and transformational grammar.

LIN 4711 HPA-COMD 3(3,0)
Language Analysis: PR: LIN 3716 and LIN 3717. Introduction to procedures for sampling, analyzing, and describing language across the lifespan.

LIN 4711L HPA-COMD 1(0,1)
Language Analysis Lab: PR: LIN 3716 and LIN 3717. Introduction to procedures for sampling, analyzing and describing language samples across the lifespan. Graded S/U.

LIN 4801 AS-ENG 3(3,0)
Language and Meaning: PR: ENC 1102 and Sophomore standing. A linguistic study of the nature of language, meaning, and the ways in which man uses language in various social, cultural, institutional, and professional settings.

LIN 5137 AS-ENG 3(3,0)
Linguistics: 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.

LIN 5675 AS-ENG 3(3,0)
English Grammar and Usage: PR: Graduate Status and C.I. An overview of modern grammar, including structural, transformational and rhetorical grammar, along with an examination of controversial usage.

LIT 2000 AS-ENG 3(3,0)
Introduction to Literary Interpretation: PR: ENC 1102. Interpretation of fiction, drama, verse: conflict, character, theme, overview of theory, rhetorical and poetic devices, figurative language, verse forms, application of critical approaches to selected works.

LIT 2110 AS-ENG 3(3,0)
World Literature I: PR: ENC 1102. Poetry, prose, and drama selected from ancient Hebrew, Greek, and Oriental literature and from that of Renaissance Europe.

LIT 2120 AS-ENG 3(3,0)
World Literature II: PR: ENC 1102. Readings from Moliere, Voltaire, Goethe, Pushkin, Balzac, Tolstoy, Ibsen, Mann, Kafka, Camus, and others.

LIT 2120H AS-ENG 3(3,0)
World Literature II N Honors: Same as LIT 2120, with honors-level content.

LIT 3082 AS-ENG 3(3,0)
Continental European Fiction Since 1900: PR: ENC 1102. A selection of significant works of fiction written in various languages during the present century, read in translation.

LIT 3192 AS-ENG 3(3,0)
Caribbean Literature: PR: ENC 1102. Traces how Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture in English.

LIT 3192H AS-ENG 3(3,0)
Honors Caribbean Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. How Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture; taught in English. Honors content.

LIT 3202 AS-ENG 3(3,0)
Death and Dying: PR: ENC 1102. Considering the topic of death and dying through a study of literature, the course includes facts, psychological impact, ideological responses to death and identity.

LIT 3313 AS-ENG 3(3,0)
Science Fiction: PR: ENC 1102. An investigation of science fiction as a literary form, together with selected readings.

LIT 3313H AS-ENG 3(3,0)
Honors Science Fiction Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. An investigation of science fiction as a literary form, together with selected readings. Honors content.

LIT 3354 AS-ENG 3(3,0)
Ethnic Literature in America: PR: ENC 1102. Contributions of linguistic and ethnic groups of non-English origin to the literature of the United States.

LIT 3354H AS-ENG 3(3,0)
Honors Ethnic Literature in America: 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. Honors content.

LIT 3383 AS-ENG 3(3,0)
Women in Literature: PR: ENC 1102. Fiction, poetry, drama and non-fiction by selected women writers, such as Emily Dickinson, Jane Austen, George Eliot, Kate Chopin, Zora Neale Hurston, Toni Morrison, Adrienne Rich, Gwendolyn Brooks.

LIT 3383H AS-ENG 3(3,0)
Honors Women in Literature: 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. Honors content.

LIT 3394 AS-ENG 3(3,0)
Literature of AIDS: PR: ENC 1102. To familiarize students with the new genre of literature that has arisen related to AIDS. Essays, short stories, plays, poetry, diaries, and novels will be covered.

LIT 3394H AS-ENG 3(3,0)
Honors Literature of AIDS: PR: Permission of Honors and ENC 1102H or equivalent credit. Fiction, poetry, drama and non-fiction by selected women writers, such as Emily Dickinson, Jane Austen, George Eliot, Kate Chopin, Zora Neale Hurston, Toni Morrison, Adrienne Rich, Gwendolyn Brooks. Honors content.

LIT 3482 AS-ENG 3(3,0)
Literature & Popular Culture: PR: ENC 1102. Analysis of media to determine popular values in the formation of popular cultural perceptions.

LIT 3905 AS-ENG 3(3,0)
Directed experience in Literature: PR: ENC 1102, C.I. Individualized topics of study and/or research in literature with personalized faculty direction. May be repeated for credit.

LIT 3911H AS-ENG 1(1,0)
Research Methods N Honors: PR: Honors Student Status or consent of Honors coordinator. Introduction to scholarship and practical research in literature and writing.
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 1832.

Captives, Housewives, and Coquettes; PR: Graduate status or C.I. Course considers early American women's literature from 17th to 19th centuries.

Studies in Gender & Fiction Writing; PR: Graduate status or C.I. Gender and applications for teaching and practice of fiction writing.

Advanced Feminist Theories: PR: Graduate status or C.I. Course level Feminist Theories from "French Feminism" to "Critical Race Theories."


Advanced Calculus II: PR: MAA 4226 or C.I. Continuation of MAA 4226.

Topics in Advanced Calculus: PR: MAA 2254 or equivalent. Topics in multivariable calculus, including limits, continuity, integration, differentiation, Taylor's theorem, inverse and implicit function theorems.


Foundations of Analysis: PR: MAA 2254. Topological spaces, compactness results, connectedness, analytical and differentiable manifolds, topological groups, Lie groups, representation theory for classical groups, Green, Stoke and Gauss' theorems.

College Algebra: PR: Intermediate algebra or 2 years of high school algebra or C.I. Inequalities, High degree polynomials. Graphs, rational, logarithmic, and exponential functions. Systems of equations, matrices, determinants, induction. This course prepares students for higher level mathematics courses. Course graded "A", "B", "C", "NC", or "F".


College Trigonometry: PR: MAC 1105 or 2 years of high school algebra or C.I. The circle arc length, circular functions, trigonometric functions, applications to simple harmonic motion, function of angles, complete development of triangle solving. Course graded "A", "B", "C", "NC", or "F".

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".


Topological spaces, compactness results, connectedness, analytical and differentiable manifolds, topological groups, Lie groups, representation theory for classical groups, Green, Stoke and Gauss' theorems. Applications in engineering and the physical sciences.

The Balzano-Weierstrass Theorem and the Heine-Borel Theorem. Extensions in Euclidian n-space.
issues, program issues, and other issues mathematics. Topics will be selected from teaching on issues which are faced by teachers of collegiate 

MAN 3301. A concentrated investigation of the meth-
ods appropriate to the development, implementation and administration of the staffing process in contem-
porary 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 manage-
ment. Designed to provide the student with funda-
mental concepts and processes involved in the pro-
curement 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 Information Systems concepts to an integrated, computerized, real-world production environment. 

MAN 4600 BA-MAN 3(3,0) International Management: PR: GEB 4361. 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 deci-
sions 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 organiza-
tions 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 3503. Study of entrepreneurship with emphasis on innovation, feasibility, planning, product and service concepts, and organizing financing and develop-
ing 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-relat-
ed 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, ACN 5003 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 pro-
gram and ECO 5415 or equivalent. Provides founda-
tion in fundamental concepts, techniques, and applications of contemporary production and opera-
tions management to serve as tools for improving quality, productivity, and international competitive-
ness. 


MAP 2302H AS-MATH 3(3,0) Differential Equations (Honors): PR: MAC 2313 or C.I. Methods of solution for first order equations. Linear equations. Numerical methods; Laplace transforms. Series solutions. Selected applications. Students will complete projects. For Honors students from all disciplines. 

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) Mathematical Modeling I: PR: MAC 2311 or MAC 2281, and MAP 2302. An overview of model construc-
tion. Model fitting, optimization models, empirical con-
struction and modeling dynamic behavior. 

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 engi-
neering 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) Applications of Complex Variables (Advanced Engineering Math Series): PR: MAP 2302. Analytic functions and complex integration. Residue integra-
tion, Taylor and Laurent series, conformal mapping and the application of complex analysis to Potential Theory. 


MAP 4364 AS-MATH 3(3,0) Applied Boundary Value Problems II: PR: MAP 4363 or C.I. Legendre polynomials and Bessel func-
tions. The theory of Sturm-Liouville. Separation of variables. Applications involving the wave equation, heat equation and Laplace’s equation. 

MAP 4371 AS-MATH 3(3,0) Numerical Methods for Differential Equations: PR: MAC 2283 or MAC 2213, MAS 3105 or C.I. Numerical theory and practices used in solving ordi-
nary differential equations and PDE. Covers Euler's
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 4321, MAC 3433 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 2302 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 2302 or C.I. Classical topics or numerical analysis and their applications, Riemann integration, Richardson extrapolation, Gaussian quadrature schemes.

MAP 5396 AS-MATH 3(3,0) Splines and Data Fitting: PR: MAS 3106, MAS 3105, MAP 2302, or C.I. Univariate splines and their application to data fitting. Applications to regression analysis, differential and integral equations. Algorithms to use different types of splines in computation.

MAP 5404 AS-MATH 3(3,0) Mathematical Foundations for Industrial Engineering and Operations: PR: MAP 2302, 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 2302 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 2302 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 2302, 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. Different branches of mathematics will be presented for a sense of diversity.

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: MAR 3023. Written and verbal communications skills applied to marketing settings. A significant portion of the course is devoted to the study of professional selling.

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: MAR 3023, 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, CGS 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, application, 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 4046, MAR 6816. Provides students opportunity to apply knowledge learned in classroom to real business situations. Open 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 LDU decompositions, linear spaces, 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 2313, MAP 2302 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.


Molecular Biology. May be repeated for credit.

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) Biotechnology and Genetic Engineering Seminar: PR: Honors Program. Principles, applications, laws, ethics and impact on society of biotechnology and genetic engineering in agriculture, medicine, forestry, environment, computer / industrial chemical engineering and business administration.


MCB 4414 HPA-M&M 3(3,0) Microbial Metabolism: PR: MCB 3020C and BCH 4050. Interrelationships between cellular 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 3024 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 and 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.

MCB 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 applications to elementary discrete structures.


MHF 4404 AS-MATH 3(3,0) History of Mathematics: PR: MAC 2312 or C.I. A chronological study of the evolution of mathematics thought from primitive counting through modern ideas of the 20th century. Recommended for prospective teachers in mathematics.

MHS 5005 ED-CFC 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.

MML 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.

MML 3305L HPA-M&M 1(0,3) Hematology Lab: PR: MLS 3305C. Practical laboratory procedures routinely performed for analyzing hemato logic abnormalities.

MML 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.

MML 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.

MML 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.

MML 4430C HPA-M&M 2(1,3) 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.

MML 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.


MML 4550 HPA-M&M 4(2,6) Clinical Immunohematology: PR: Admission to the professional phase of the MLS program or C.I. Investigation of incompetent crossmatches; antibody identification, leukocyte antigens and identification procedures, problem solving.

MML 4625 HPA-M&M 3(3,0) Advanced Clinical Chemistry I: PR: CHM 2210. Correlation of lab tests to diagnostic disease states including deviations in carbohydrate, amino acid metabolism, renal function, gastric function, electrolytes, and blood gases.

MML 4625L HPA-M&M 1(0,3) Advanced Clinical Chem I Lab: CR: MLS 4625C. Laboratory procedures routinely performed in a clinical chemistry laboratory.

MML 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.

MML 4630L HPA-M&M 1(0,3) Advanced Clinical Chem II Lab: PR: CHM 2205 or C.I. CR: MLS 4630C. Performance of laboratory procedures routinely used in a clinical chemistry laboratory.

MML 4830C HPA-M&M 4(4,8) Interpretive & Practical Clinical Chemistry: PR: Admission to the MLS program, MLS 450C, MLS 4560C. Clinical instruction and practice in the clinical chemistry laboratory. Case studies, chemist review, hands on practice both in the student lab and affiliate.

MML 4831C HPA-M&M 4(4,8) Interpretive & Practical Immunohematology: PR: Admission to the MLS program, MLS 450C, MLS 4560C. Advanced study of principles of immunohematology, application and performance of techniques to solve problems in blood banking will be included.

MML 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 patho-physiologic correlation to hematologic disorders. Correlation of case studies and clinical practice in both student labs and clinical affiliates.

MML 4833C HPA-M&M 4(4,8) Diagnostic Microbiology: PR: Admission to the MLS program, MLS 4460. Practical application of modern bacteriological procedures with clinical specimens to include microbiology and virology and appropriate quality control. Clinical practice in both student lab and affiliate.

MML 4834C HPA-M&M 4(4,8) Advanced Instrumentation: PR: Admission to the MLS program, MLS 4833C. Specialization in preparation & practice of technologies impacting the clinical laboratory to include flow cytometry, PCR, LIS, robotics. Case studies will be a fundamental part of this course.

MML 4910 HPA-M&M 1(1,0) Introduction to Clinical Research: PR: MLS 3200C, MLS 4625C, MLS 4560. Introduces MLS students to different types of research within the clinical setting.

MML 4933 HPA-M&M 1(1,0) Medical Technology Seminar: PR: MLS Senior status. Review of MLS coursework, case study discussions and guest lectures describing employment opportunities. May be repeated for credit.

MML 5710 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.

MMO 3420 AS-COMM 3(3,0) Mass Media Research Methods: PR:
Communication major. Theory and methods of research used by media professionals and academicians, focusing on radio / TV and advertising / public relations research.

MMC 4200 AS-COMM 3(3,0) Mass Communication Law: PR: Open only to majors in journalism, AdPr, or RTV or minors in Mass Communication. The legal rights and responsibilities of the mass media.

MMC 4254 AS-COMM 3(3,0) AdPr campaigns: PR: ADV 3000, PUR 4000 and either PUR 3100 or ADV 4101. Planning and managing communication campaigns that integrate both advertising and public relations strategies

MMC 4263 AS-COMM 3(3,0) New Media Technologies: PR: Majors only, RTV 3200. An examination of the technologies impacting the communications media environment and society.

MMC 4300 AS-COMM 3(3,0) International Media: PR: Junior standing or C.I. The student will analyze different communication systems from around the world. There will be at least six case studies from any of these areas - Asia, Latin American, Western Europe, Middle East, Africa.

MMC 4602 AS-COMM 3(3,0) Contemporary Media Issues: PR: JOU 2100C, PUR 3100 or RTV 3301. Relationship between the mass media and society: examination of social and ethical issues and responsibilities of the mass media's relationship with government.

MSL 1001C ECS-AROTC 2(1,1) Foundations of Officerhip: Examines the unique duties and responsibilities of officers, organization and role of the Army, reviews skills pertaining to fitness and communication, and analyzes 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, leadership, and conflict resolution skills.

MSL 2102C ECS-AROTC 2(1,1) Leadership and Teamwork: Focuses on self-development guided by knowledge of self and group processes; challenges current beliefs, knowledge and skills.

MUC 3104C 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 3105C AS-MUSIC 2(1,1) Composition II: PR: MUC 3101C and MUC 2104C. Continuation of Composition I. Competence determined by faculty jury. May be repeated for credit.

MUC 3311 AS-MUSIC 3(2,2) MIDI Sequencing I: PR: Keyboard ability, Junior standing, and C.I. Utilization of synthesizers, drum machines, and computers with MIDI sequencing. May be repeated for credit.

MUC 4106C AS-MUSIC 2(1,1) MUC 4611C AS-MUSIC 3(2,2) MIDI Sequencing II: PR: MUC 3311, Junior standing, and C.I. Continuation of sequencing, sampling, and inactive digital music technology.

MUC 4611C AS-MUSIC 3(2,1) Computer Animation and Digital Music: PR: MUC 4441 or FIL 3286C and C.I. Music students and computer animation students work collaboratively to produce animation projects with original musical scores and sound effects.


MUC 1291 AS-MUSIC 1(0,1) Classroom Instruments: Instruction in recorder and guitar, as it applies to classroom usage for music educators.


MUC 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: MUED 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: MUED major, Junior standing or C.I. Class instruction in woodwind playing and pedagogical techniques.

MUE 2460 AS-MUSIC 1(0,2) Brass Techniques: PR: MUED 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: MUED 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: MUE 2450, MUED 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, MUED 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 3111 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 2-3(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, conductus, and curriculum infusion included. Implementation project available. May be repeated for credit. Graded S/U.

MUE 4480C AS-MUSIC 1(1,1) Marching Band Techniques: PR: MUF 1112 and C.I. Principles of organizing and training marching bands: Planning, charting football shows, rehearsal problems, Guided observations. May be repeated for credit.

MUC 4481 AS-MUSIC 1(1,0) Jazz Pedagogy: PR: Music major, MUF 1112 and C.I. Methods, materials, and resources for teaching jazz ensembles and improvisation at the secondary school level.

MUG 3104 AS-MUSIC 2(1,1) 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 3302 AS-OASIS Variable Instrumental Conducting and Materials: PR: MUG 3104. Fundamental principles of instrumental conducting and rehearsal techniques including an examination of materials.
Advanced Conducting: PR: C.I. Study of advanced vocal or instrumental conducting techniques. Rehearsal procedures, selection of materials and program-building, interpretation of scores, study and performance of selected works.

MUH 4211 AS-MUSIC 3(3,0) History and Literature I: PR: MUT 1112. In-depth study of the development of Western musical styles from antiquity to the present.

MUH 4212 AS-MUSIC 3(3,0) History and Literature II: PR: MUH 4211. Continuation of MUH 4211.

MUH 4218 AS-MUSIC 1(1,0) Review of Music History: PR: C.I. A review of music history from Ancient Greece to the present.

MUH 4963 AS-MUSIC 0(1,0) Music History Proficiency Exam: PR: MUH 4212. A comprehensive examination in music history. Required of music majors. May be repeated one time. Graded S/U.

MUL 3603 AS-MUSIC 1(1,1) American/English Song Literature: PR: Music major or C.I. Study of songs written by American or English composers.

MUL 3604 AS-MUSIC 1(1,1) German Song Literature: PR: Music major or C.I. Survey of German song literature.

MUL 3605 AS-MUSIC 1(1,1) French Song Literature: PR: Music major or C.I. Survey of French song literature.

MUL 4218 AS-MUSIC 1(1,0) Concert Band: Open to all students with audition. Study and performance of music for large ensembles. May be repeated for credit.

MUN 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.

MUN 3283 AS-MUSIC 1(0,5) Symphony Orchestra: PR: Audition. Open to all students by audition. Rehearsal and performance of works from the symphonic repertoire. May be repeated for credit.

MUN 3313 AS-MUSIC 1(3,0) University Choir: PR: C.I. Open to all students by audition. Study and performance of large ensemble music. Possible tours. May be repeated for credit.

MUN 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.

MUN 3423 AS-MUSIC 1(0,2) Woodwind Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit.

MUN 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 3494 AS-MUSIC 1(1,1) Steel Drum Ensemble: PR: C.I. Rehearsal and performance of music arranged for steel drum band. May be repeated for credit.

MUS 3343 AS-MUSIC 1(0,3) Madrigal Singers: PR: C.I. Open to all students by audition. Extra rehearsals and Madrigal Dinners required. Tours. May be repeated for credit.

MUS 4635C AS-MUSIC 3(2,2) Music Production Techniques: PR: MUC 3311, MUC 4441, MUS 4635C. Audio recording format. Audio and video post production process with the video recording format. Audio and multi-media technologies.
MUT 1242 Examine traditional harmony, melody, and rhythm. May be repeated one time. Graded S/U.

Music Theory Proficiency Exam

MUT 2962 AS-MUSIC 0(1,0)

MUT 3170 AS-MUSIC 2(1,1)
Jazz Theory I: PR: MUT 1111, MUT 1112, MUT 1241, MUT 1242. Examine traditional harmony, melody, and rhythm. Mut 3171 AS-MUSIC 2(1,1)
Jazz Theory II: 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 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: PR: 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 5381 AS-MUSIC 3(0,0) Arranging and Composing Music: PR: Satisfactory placement tests in theory, sight-singing, and ear training. Arranging and composing music for instrumental and vocal ensembles. Some emphasis on compositional techniques of the 20th century.

MVB 1211 AS-MUSIC 1(0,1) Secondary Trumpet: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trumpet. Intended for non-music majors. May be repeated for credit.

MVB 1212 AS-MUSIC 1(0,1) Secondary Trombone: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trombone. Intended for non-music majors. May be repeated for credit.

MVB 1213 AS-MUSIC 1(0,1) Secondary French Horn: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in French horn. Intended for non-music majors. May be repeated for credit.

MVB 1214 AS-MUSIC 1(0,1) Secondary Baritone: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in baritone. Intended for non-music majors. May be repeated for credit.

MVB 1411 AS-MUSIC 2(1,1) Trumpet I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVB 1412 AS-MUSIC 2(1,1) French Horn I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVB 1413 AS-MUSIC 2(1,1) Trombone I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVB 1414 AS-MUSIC 2(1,1) Baritone I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVB 1415 AS-MUSIC 2(1,1) Tuba I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVB 2421 AS-MUSIC 2(1,1) Trumpet II: PR: MVB 1411 and competence determined by faculty jury. Continuation of MVB 1411. May be repeated for credit.

MVB 2422 AS-MUSIC 2(1,1) French Horn II: PR: MVB 1412 and competence determined by faculty jury. Continuation of MVB 1412. May be repeated for credit.

MVB 2423 AS-MUSIC 2(1,1) Trombone II: PR: MVB 1413 and competence determined by faculty jury. Continuation of MVB 1413. May be repeated for credit.

MVB 2424 AS-MUSIC 2(1,1) Baritone II: PR: MVB 1414 and competence determined by faculty jury. Continuation of MVB 1414. May be repeated for credit.

MVB 2425 AS-MUSIC 2(1,1) Tuba II: PR: MVB 1415 and competence determined by faculty jury. Continuation of MVB 1415. May be repeated for credit.

MVB 3431 AS-MUSIC 2(1,1) Trumpet III: PR: MVB 2421 and competence determined by faculty jury. Continuation of MVB 2421. May be repeated for credit.

MVB 3432 AS-MUSIC 2(1,1) French Horn III: PR: MVB 2422 and competence determined by faculty jury. Continuation of MVB 2422. May be repeated for credit.

MVB 3433 AS-MUSIC 2(1,1) Trombone III: PR: MVB 2423 and competence determined by faculty jury. Continuation of MVB 2423. May be repeated for credit.

MVB 3434 AS-MUSIC 2(1,1) Baritone III: PR: MVB 2424 and competence determined by faculty jury. Continuation of MVB 2424. May be repeated for credit.

MVB 3435 AS-MUSIC 2(1,1) Tuba III: PR: MVB 2425 and competence determined by faculty jury. Continuation of MVB 2425. May be repeated for credit.

MVB 4441 AS-MUSIC 2(1,1) Trumpet IV: PR: MVB 3431 and competence determined by faculty jury. Continuation of MVB 3431. May be repeated for credit.

MVB 4442 AS-MUSIC 2(1,1) French Horn IV: PR: MVB 3432 and competence determined by faculty jury. Continuation of MVB 3432. May be repeated for credit.

MVB 4443 AS-MUSIC 2(1,1) Trombone IV: PR: MVB 3433 and competence determined by faculty jury. Continuation of MVB 3433. May be repeated for credit.

MVB 4444 AS-MUSIC 2(1,1) Baritone IV: PR: MVB 3434 and competence determined by faculty jury. Continuation of MVB 3434. May be repeated for credit.

MVB 4445 AS-MUSIC 2(1,1) Tuba IV: PR: MVB 3435 and competence determined by faculty jury. Continuation of MVB 3435. May be repeated for credit.

MVB 4640 AS-MUSIC 2(2,0) Brass Pedagogy: PR: Music major and C.I. Methods and materials for teaching instruments in a small group or studio setting.
Organ II: PR: MVK 1413 and competence determined; audition. May be repeated for credit.
MVS 1413 AS-MUSIC 2(1,1) Secondary Violin: PR: Consent of Music Chair; audition. May be repeated for credit.
MVS 1213 AS-MUSIC 2(1,1) Secondary Cello: PR: Major in music or consent of chair; audition. May be repeated for credit.
MVS 1214 AS-MUSIC 2(1,1) Bass I: PR: Major in music or consent of chair; audition. May be repeated for credit.
MVS 1414 AS-MUSIC 2(1,1) Bass II: PR: MVK 1414 and competence determined by faculty jury. Continuation of MVS 1415. May be repeated for credit.
MVS 2412 AS-MUSIC 2(1,1) Violin II: PR: MVK 1414 and competence determined by faculty jury. Continuation of MVS 1415. May be repeated for credit.
MVS 2423 AS-MUSIC 2(1,1) Cello II: PR: MVK 1413 and competence determined by faculty jury. Continuation of MVS 1415. May be repeated for credit.
MVS 2424 AS-MUSIC 2(1,1) Bass II: PR: MVK 1414 and competence determined by faculty jury. Continuation of MVS 1415. May be repeated for credit.
MVS 2425 AS-MUSIC 2(1,1) Harp II: PR: MVK 1414 and competence determined by faculty jury. Continuation of MVS 1415. May be repeated for credit.
MVS 2431 AS-MUSIC 2(1,1) Percussion IV: PR: MVK 3431 and competence determined by faculty jury. Continuation of MVS 3431. May be repeated for credit.
MVS 2432 AS-MUSIC 2(1,1) Cello III: PR: MVK 2422 and competence determined by faculty jury. Continuation of MVS 2423. May be repeated for credit.
MVS 3431 AS-MUSIC 2(1,1) Secondary Violin: PR: Consent of Music Chair; CR: Performing ensemble. Advanced instruction in violin. Intended for non-music majors. May be repeated for credit.
MVS 3432 AS-MUSIC 2(1,1) Viola III: PR: MVK 2422 and competence determined by faculty jury. Continuation of MVS 2423. May be repeated for credit.
MVS 3435 AS-MUSIC 2(1,1)
Harped: PR: MVS 2425 and competence determined by faculty jury. Continuation of MVS 2425. May be repeated for credit.

MVS 3436 AS-MUSIC 2(1,1)
Guitar III: PR: MVS 2426 and competence determined by faculty jury. Continuation of MVS 2426. May be repeated for credit.

MVS 4441 AS-MUSIC 2(1,1)
Violin IV: PR: MVS 3431 and competence determined by faculty jury. Continuation of MVS 3431. May be repeated for credit.

MVS 4442 AS-MUSIC 2(1,1)
Viola IV: PR: MVS 3432 and competence determined by faculty jury. Continuation of MVS 3432. May be repeated for credit.

MVS 4443 AS-MUSIC 2(1,1)
Bass IV: PR: MVS 3434 and competence determined by faculty jury. Continuation of MVS 3434. May be repeated for credit.

MVS 4445 AS-MUSIC 2(1,1)
Harp IV: PR: MVS 3435 and competence determined by faculty jury. Continuation of MVS 3435. May be repeated for credit.

MVS 4446 AS-MUSIC 2(1,1)
Guitar IV: PR: MVS 3436 and competence determined by faculty jury. Continuation of MVS 3436. May be repeated for credit.

MVS 4640 AS-MUSIC 2(2,0)
String Pedagogy: PR: Music major and C.I. Methods, materials for teaching string instruments in a small group or studio setting.

MVS 5451 AS-MUSIC 2(1,0)
Violin V: PR: C.I. May be repeated for credit.

MVS 5452 AS-MUSIC 2(1,0)
Viola V: PR: C.I. May be repeated for credit.

MVS 5453 AS-MUSIC 2(1,0)
Cello V: PR: C.I. May be repeated for credit.

MVS 5454 AS-MUSIC 2(1,0)
Bass V: PR: C.I. May be repeated for credit.

MVS 5455 AS-MUSIC 2(1,0)
Harp V: PR: C.I. May be repeated for credit.

MVS 1111 AS-MUSIC 1(0,1)
Class Voice: Class instruction in beginning voice. May be repeated for credit.

MVS 1211 AS-MUSIC 1(0,1)

MVS 1411 AS-MUSIC 2(1,1)
Voice I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVS 2322 AS-MUSIC 1(1,0)
Singing Broadway: PR: Concurrent enrollment in MVS 1411 or MVS 2421 or MVS 3431 or MVS 4441. Hearing and singing the American music called "Broadway." Students learn singing techniques utilizing principles of the Italian "Bel Canto" school. May be repeated for credit.

MVS 2421 AS-MUSIC 2(1,1)
Voice I: PR: MVS 1411 and competence determined by faculty jury. Continuation of MVS 1411. Major in music or consent of chair; audition. Private and class lessons. May be repeated for credit.

MVV 2422 AS-MUSIC 2(1,1)
Voice I: PR: MVV 2421 and competence determined by faculty jury. Continuation of MVV 2421. May be repeated for credit.

MVV 4441 AS-MUSIC 2(1,1)
Voice IV: PR: MVV 3431 and competence determined by faculty jury. Continuation of MVV 3431. May be repeated for credit.

MVV 4640 AS-MUSIC 1(0,1)
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 intermediate 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 5451 AS-MUSIC 2(1,0)
Voice V: PR: C.I. May be repeated for credit.

MVV 1211 AS-MUSIC 1(0,1)

MVV 1212 AS-MUSIC 1(0,1)

MVV 1213 AS-MUSIC 1(0,1)

MVV 1214 AS-MUSIC 1(0,1)

MVV 1215 AS-MUSIC 1(0,1)

MVV 1411 AS-MUSIC 2(1,1)
Flute I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVV 1412 AS-MUSIC 2(1,1)
Oboe I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVV 1413 AS-MUSIC 2(1,1)
Clarinet I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVV 1414 AS-MUSIC 1(1,0)
Juvenile Bassoon: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVV 1415 AS-MUSIC 2(1,1)
Saxophone I: PR: Major in music or consent of chair; audition. May be repeated for credit.

MVV 2421 AS-MUSIC 2(1,1)
Flute II: PR: MVV 1411 and competence determined by faculty jury. Continuation of MVV 1411. May be repeated for credit.

MVV 2422 AS-MUSIC 2(1,1)
Oboe II: PR: MVV 1412 and competence determined by faculty jury. Continuation of MVV 1412. May be repeated for credit.

MVV 2423 AS-MUSIC 2(1,1)
Clarinet II: PR: MVV 1413 and competence determined by faculty jury. Continuation of MVV 1413. May be repeated for credit.

MVV 2424 AS-MUSIC 2(1,1)
Bassoon II: PR: MVV 1414 and competence determined by faculty jury. Continuation of MVV 1414. May be repeated for credit.

MVV 2425 AS-MUSIC 2(1,1)
Saxophone II: PR: MVV 1415 and competence determined by faculty jury. Continuation of MVV 1415. May be repeated for credit.

MVV 3431 AS-MUSIC 2(1,1)
Flute III: PR: MVV 2421 and competence determined by faculty jury. Continuation of MVV 2421. May be repeated for credit.

MVV 3432 AS-MUSIC 2(1,1)
Oboe III: PR: MVV 2422 and competence determined by faculty jury. Continuation of MVV 2422. May be repeated for credit.

MVV 3433 AS-MUSIC 2(1,1)
Clarinet III: PR: MVV 2423 and competence determined by faculty jury. Continuation of MVV 2423. May be repeated for credit.

MVV 3434 AS-MUSIC 2(1,1)
Bassoon III: PR: MVV 2424 and competence determined by faculty jury. Continuation of MVV 2424. May be repeated for credit.

MVV 3435 AS-MUSIC 2(1,1)
Saxophone III: PR: MVV 2425 and competence determined by faculty jury. Continuation of MVV 2425. May be repeated for credit.

MVV 3436 AS-MUSIC 2(1,1)
Woodwind Pedagogy: PR: C.I. Methods, materials for teaching individuals and woodwind ensembles.

MVV 4441 AS-MUSIC 2(1,1)
Flute IV: PR: MVV 3431 and competence determined by faculty jury. Continuation of MVV 3431. May be repeated for credit.

MVV 4442 AS-MUSIC 2(1,1)
Oboe IV: PR: MVV 3432 and competence determined by faculty jury. Continuation of MVV 3432. May be repeated for credit.

MVV 4443 AS-MUSIC 2(1,1)
Clarinet IV: PR: MVV 3433 and competence determined by faculty jury. Continuation of MVV 3433. May be repeated for credit.

MVV 4444 AS-MUSIC 2(1,1)
Bassoon IV: PR: MVV 3434 and competence determined by faculty jury. Continuation of MVV 3434. May be repeated for credit.

MVV 4445 AS-MUSIC 2(1,1)
Saxophone IV: PR: MVV 3435 and competence determined by faculty jury. Continuation of MVV 3435. May be repeated for credit.

MWW 5451 AS-MUSIC 2(1,0)
Flute V: PR: C.I. May be repeated for credit.

MWW 5452 AS-MUSIC 2(1,0)
Oboe V: PR: C.I. May be repeated for credit.

MWW 5453 AS-MUSIC 2(1,0)
Clarinet V: PR: C.I. May be repeated for credit.

MWW 5454 AS-MUSIC 2(1,0)
Bassoon V: PR: C.I. May be repeated for credit.

MWW 5455 AS-MUSIC 2(1,0)
Saxophone V: PR: C.I. May be repeated for credit.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>NGR 5003</td>
<td>HPA-NURS 1</td>
<td>3(3,0)</td>
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<tr>
<td></td>
<td>Advanced Health Assessment, Health Promotion, \ &amp; Diagnostic Reasoning: PR: B.S. in Nursing; Basic \ Hilth Assess course. Co: Adv Hilth Assess Clinical.</td>
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<tr>
<td>NGR 5141</td>
<td>HPA-NURS 3</td>
<td>3(3,0)</td>
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<td>Professional Ethics: PR: C.I. Clinical</td>
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<tr>
<td>NGR 5252</td>
<td>HPA-NURS 3</td>
<td>3(3,0)</td>
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<td>Professional Ethics: PR: C.I. Clinical</td>
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<tr>
<td>NGR 5635</td>
<td>HPA-NURS 3</td>
<td>3(3,0)</td>
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<td>Transdisciplinary and Community-Based Strategies of Health Professionals: PR: Graduate</td>
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<tr>
<td>NGR 5714</td>
<td>HPA-NURS 3</td>
<td>3(3,0)</td>
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<td>Clinical Teaching Strategies for Health Professional Education: PR: EDG 6236 or Teaching</td>
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<tr>
<td>NGR 5715</td>
<td>HPA-NURS 3</td>
<td>3(3,0)</td>
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<td>Instructional Technology Resources for Health Professional Education: PR: EDG 6236, Teaching</td>
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<tr>
<td>NGR 5720</td>
<td>HPA-NURS 3</td>
<td>3(3,0)</td>
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<td>Organizational Dynamics: PR: Baccalaureate Degree in Nursing.</td>
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<tr>
<td>NGR 5744</td>
<td>HPA-NURS 1</td>
<td>1(1,0)</td>
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<td>Health Care Systems, Policy and Health Professionals: PR: Admission to the MSN program or C.I.</td>
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<tr>
<td>NGR 5745</td>
<td>HPA-NURS 1</td>
<td>1(1,0)</td>
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<td>Professional Obligations and Activities of Advanced Practice Nursing: PR: NGR 5745 (Roles and Issues in Advanced Practice Nursing II).</td>
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<tr>
<td>NGR 5746</td>
<td>HPA-NURS 1</td>
<td>1(1,0)</td>
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<td>Cultural, legal, ethical, and political issues of Advanced Practice Nursing: PR: Baccalaureate degree in Nursing.</td>
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<tr>
<td>NUR 3198</td>
<td>HPA-NURS 5</td>
<td>5(5,0)</td>
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<td>Pathophysiology and Pharmacology for Nursing Practice: PR: Admission to the School of Nursing.</td>
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<tr>
<td>NUR 3235</td>
<td>HPA-NURS 5</td>
<td>5(5,0)</td>
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<td></td>
<td>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.</td>
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threating 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
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

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)
Professional Development Seminar in Nursing: PR: Acceptance to RN-MSN program track; Current Florida RN license; CR: NUR 3809. Exploration of the role of the professional nurse.

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. Professional development and role transition of the baccalaureate graduate entering professional nursing practice.

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(0,0)
Variable Nursing Independent Study: PR: NUR 4756C. An opportunity for in-depth study in an area of special interest to the student.

NUR 4906 HPA-NURS 3(0,0)
Variable Independent Study: Directed Study.

NUR 4930 HPA-NURS 3(3,0)
Health Issues in Minority and Special Populations: PR: Nursing Majors/Julier 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)
Selected Nursing Practicum: PR: NUR 4756C and 4758C. An opportunity for an in-depth clinical study in an area of special interest to the student.

NUR 4945L HPA-NURS 4(0,4)

NUR 4970H HPA-NURS 3(3,0)
Theory 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-ECECS 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 UCF-OPT 3(3,0)
Fundamentals and Applications of Photons: PR: Graduate standing or C.1. 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-ECECS 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 interferometry, Fraunhofer and Fresnel scalar diffraction, diffraction gratings, temporal coherence, spatial coherence, and partial coherence.

OSE 5143 ECS-ECECS 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 EEC-EECS 3(3,0)
**Fundamentals of Optoelectronic Devices**: PR: Graduate standing or C.I. Course of operation, methods of fabrication, applications, and limitations of various optoelectronic devices including quantum well semiconductors.

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 311L, MAF 323P, PHY 442P. Classical introduction to the basic principles of laser gain media, properties of resonators and modes, description of specific laser systems.

OSE 5630C EEC-EECS 3(2,1)
**Thin Film Optics**: PR: PHY 442 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 environments.

PAD 3003 HPA-PUB 3(3,0)
**Public Administration in American Society**: PR: POS 2041. An examination of the basic environment, culture, and organization of public administration in the United States.

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 goals, and on supervisory strategies. Some social and structural implications 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, i.e., 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 boards of directors, volunteer services, fundraising and grantmanship, 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 variables, 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 must be provided to the victims. This course reviews and analyzes coordination and management of these services.

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 ITB, 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(0,6)
**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 in nonprofit management.

PAD 5146 HPA-PUB 3(3,0)
**Nonprofit Resource Development**: PR: Post-bac status or C.I. Examines human resource development and financial resource development in nonprofit organizations including management issues.

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 aspects such as zoning, growth management, and environmental regulation.

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.

PFA 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.

PFA 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 200 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 3023 AS-BIOL 3(3,0)

PCB 3034 AS-BIOL 3(3,0)

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 immunotherapy.

PCB 3233L HPA-M&M 1(0,3)
Immunology Laboratory: CR: PCB 3233. Introduction to laboratory techniques in immunology.

PCB 3301C AS-BIOL 4(3,4)

PCB 3314 AS-BIOL 3(3,0)

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 2111 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 4(3,3)
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 4302C AS-BIOL 4(3,4)
Physiochemical Limnology: PR: BSC 2010C and BSC 2011C, or C.I. Limnology and methods for freshwater ecology, with respect to physical, and chemical parameters.

PCB 4303C AS-BIOL 4(3,4)

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 4529 HPA-M&M 3(3,0)
Experimental Molecular Biology: PR: PCB 3523 and PCB 4524 or C.I. Facilitation of experimental data to include geography, geology, climate, energetics, nutrient cycling, community structure and conservation of populations, exploited species, and endangered species. Weekend field trips are required.

PCB 5045C AS-BIOL 4(3,2)
Conservation Biology: PR: PCB 3034 and PCB 3063. Scientific basis of conservation; conservation of ecosystems, populations, exploited species, and endangered species. Weekend field trips are required.

PCB 5107C AS-BIOL 4(3,2)
Advanced Cell Biology: PR: PCB 3063 and PCB 3023 or C.I. Review of selected topics in cell biology with emphasis on current research in areas of membrane structure, protein targeting, cytoskeleton, signalling and cell cycle.

PCB 5236 AS-BIOL 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 5256C AS-BIOL 4(3,2)
Advanced Developmental Biology: PR: PCB 3063 and 300 4603C or equivalent. Lecture and literature review of emerging areas in plant and animal development.

PCB 5275 HPA-M&M 3(3,0)
Signal Transduction Mechanics: PR: PCB 3033 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 2311 (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)

PCB 5556C AS-BIOL 4(3,2)
Conservation Genetics: PR: PCB 3063 and PCB 4693. Applications of genetic models to the understanding and conservation of animal and plant populations.

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 3063. Scientific basis of conservation; conservation of ecosystems, populations, exploited species, and endangered species. Weekend field trips are required.
UCF Courses and Descriptions

4683C. Provides an overview of molecular methods currently used to analyze diversity within and among species.

PCO 4203 AS-PSYCH 3(3,2)
Interviewing and Counseling: PR: PSY 3021, PPE 3003, CLP 343 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 (muscular-skeletal, neuromuscular, cardio-pulmonary) 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 certificare 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 basics 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(1,2)
Coaching Football: Theory and methods of coaching football, including the analysis of offensive and defensive techniques and strategies.

PPE 3645 ED-TLP 3(3,0)

PEG 3025 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 3620C HPA-HP 3(2,2)

PET 3623C HPA-HP 3(2,2)

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 curriculum,” 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 athletic performance.
Advanced clinical internship with increased responsibilities in the athletic training profession.

Practicum in Athletic Training III: PR: PET 3671C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer.

Practicum in Athletic Training IV: PR: PET 4672C. Advanced clinical internship with increased responsibilities under the supervision of a Certified athletic trainer.


Teaching Physical Education K-12: PR: Must be admitted to internship. Development of instructional and curricular considerations for teaching Physical Education.

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.


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.

Sports and Fitness Practicum II: PR: Sports & Fitness Practicum I and overall GPA of 2.5. Field experience in a sports and fitness related organization, association, or business.

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 SU.

Exercise and Health: PR: Admission to Master's Program or Certificate Program. Will provide educators in an 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.


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.

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.
ence in outlook and emphasis, the significance of their respective critiques of society, the implications of their contrasting standpoints for understanding human life, the philosophical and ideological influences of their work, and their contemporary relevance.

PHH 3600 AS-PHIL 3(3,0)
Contemporary Philosophy: PR: PHI 2010 or C.I. Recent and current trends in philosophy, including philosophical analysis, phenomenology, structuralism, post-structuralism, and liberation philosophies.

PHH 3700 AS-PHIL 3(3,0)
American Philosophy: PR: PHI 2010 or AMH 2010 or ARH 2050 or C.I. Analytical and chronological survey of philosophical, religious, and scientific developments in American thought, with primary focus on the American spirit of individualism and reform.

PHI 2010 AS-PHIL 3(3,0)
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.

PHI 2010H AS-PHIL 3(3,0)
Honors Introduction to Philosophy: Same as PHI 2010 with honors-level content.

PHI 2011 AS-PHIL 3(3,0)
Philosophical Reasoning: A study of reasoning in philosophy: the role of inconsistency, infinite regress, argument, modeling, and system building, discovery procedures, diagonalization, and contract and paradigm case arguments.

PHI 2100 AS-PHIL 3(3,0)
Formal Logic I: A study of sentence and predicate logics, with introduction to modal, epistemic, deontic, multi-valued, and indeterminacy logics.

PHI 2101 AS-PHIL 3(3,0)
Critical Thinking: The logic of conversation, informal fallacies, and reasoning about human action.

PHI 2630 AS-PHIL 3(3,0)
Ethics: An examination of the nature of moral problems, judgements and principles, with an emphasis on recent formulations in ethical theory.

PHI 2647 AS-PHIL 3(3,0)
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.

PHI 3022 AS-PHIL 3(3,0)
Sexuality, Gender & Philosophy: PR: WST 3015, PHI 2010, PHI 3123, or C.I. Examines the contributions of poststructuralist and neo-Feminist theories to cultural issues in sexuality and gender.

PHI 3033 AS-PHIL 3(3,0)
Philosophy, Religion, and the Environment: PR: Junior standing or C.I. A multicultural treatment of the influence of philosophical and religious views on our understanding of, and relation to, the environment.

PHI 3320 AS-PHIL 3(3,0)
Philosophy of Mind: PR: PHI 2010, PSY 2012, or C.I. Recent and contemporary attempts to understand the relation of mind to body, the relation of consciousness to personhood, and the relation of psychology to neuroscience.

PHI 3451 AS-PHIL 3(3,0)
Philosophy of Psychology: PR: Junior standing or C.I. Philosophical assumptions and foundations of major psychological movements plus other philosophically interesting issues.

PHI 3601 AS-PHIL 3(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)

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 2010C and either PHI 2010 or PHI 2630 or PHI 3670. Ethical issues surrounding the Human Genome Project, including genetic testing, genetic therapies, genetic enhancement, forensics, data banking, and genetic parenting.

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 3725 AS-PHIL 3(3,0)

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 and natural evil.

PHI 3800 AS-PHIL 3(3,0)

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 3941 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 2101, PHI 2103, 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. Philosophical 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 ethical theories 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 emphasizing 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 3XXX (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 standing 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 4342, PHI 4400, PHI 4623, 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)
UCF Courses and Descriptions

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 law, 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 the chief philosophers as Kierkegaard, Nietzsche, Heidegger, Sartre, and Camus.

PHT 3002 HPA-HP 2(2,0) Foundations of Physical Therapy I: PR: PHT 3259. 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 3059 HPA-HP 3(3,0) Modern Theory of Movement as a Science: PR: PHT 3113L. CR: PHT 3112L. An introduction to the modern theory of movement as a science and art of physical therapy, with emphasis on the role and function of physical therapists.

PHT 3066 HPA-HP 1(1,0) Physical Assessment: CR: PHT 3066L. Extensive theory and practice in the examination of the patient. Incorporates a systems approach, utilizing screening and patient problem solving.

PHT 3067 HPA-HP 2(2,0) Physical Assessment Lab: CR: PHT 3067L. 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. CR: PHT 3113L. 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 3113. 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 studying 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, dressing, 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, dressing, 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 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, and weakness.

PHT 4215L HPA-HP 1(0,2) Theories and Procedures I Lab: CR: PHT 3214L. 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 415, PHT 4215L. CR: PHT 4215L. Continuation of theories and procedures I. Focus on electrodiagnosis and electro-physiologic 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 4216L. Lab course focusing on electrodiagnosis and electro-physiologic 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 4222L. 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 4234. Lab course emphasizing the clinical application of selected neuromotor theories.

PHT 4307 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 of 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(2,1) Pediatric Physical Therapy: PR: PHT 3059; PHT 3059L. 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. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs.

PHT 5118L HPA-HP 2(0,4)
Gross Anatomy/Neuroscience II Lab: PR: PR Gross Anatomy Neuroscience I and Lab; CR Gross Anatomy Neuroscience II. Duplicates 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 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 I 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, 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 relate to medical management in physical therapy practice.

PHT 5411 HPA-HP 3(3,0)
Foundations of Physical Therapy II: PR: PHT 3002C. This course emphasizes 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 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.

PHY 2048 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.

PHY 2048H AS-PHYS 3(3,0)
Honors Physics for Engineers and Scientists I: PR: MAC 2311 or equivalent. Mechanics, Thermodynamics, fluids.

PHY 2048H AS-PHYS 3(3,0)
Honors Physics for Engineers and Scientists I: PR: MAC 2312 and PHY 2048H. Electricity, magnetism, optics.

PHY 2049 AS-PHYS 3(3,0)
Physics for Engineers and Scientists II: PR: PHY 2048H, MAC 2312. Same as PHY 2049 with honors-level content.

PHY 2049L AS-PHYS 1(0,3)
Physics Laboratory for Engineers and Scientists I: CR: PHY 2048. Laboratory experiments covering selected topics in physics related to PHY 2048.

PHY 2049L AS-PHYS 1(0,3)
Physics Laboratory for Engineers and Scientists II: CR: PHY 2048. Laboratory experiments covering selected topics in physics related to PHY 2049.

PHY 2053C AS-PHYS 4(3,3)
College Physics I: PR: MAC 1105 and MAC 1114 or equivalent or C.I. Mechanics, waves, thermodynamics.

PHY 2053C AS-PHYS 4(3,3)
College Physics II: CR: PHY 2053C. Fluids, electricity and magnetism, optics, x-rays, radioactivity.

PHY 2053 AS-PHYS 0(0,1.5)
Physics Today: CR: PHY 2048 or PHY 2049. Fundamental physics principles behind recent developments in physics research will be presented in a seminar format. May be repeated for credit.

PHY 3101 AS-PHYS 3(3,0)
Physics for Engineers and Scientists III: PR: MAC 2313 and PHY 2049 or PHY 2049H. Thermodynamics, oscillations, modern physics.

PHY 3110 AS-PHYS 3(3,0)
Honors Physics for Engineers and Scientists III: PR: PHY 2049 or PHY 2049H. Same as PHY 3101 with honors-level content.

PHY 3221 AS-PHYS 3(3,0)

PHY 3323 AS-PHYS 3(3,0)

PHY 3350 AS-PHYS 3(3,0)
Thermal and Statistical Physics: PR: PHY 3101 or PHY 3110 or C.I. Thermodynamics, kinetic theory.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHY 3722C AS-PHYS</td>
<td>Physics Laboratory-Electronics: PR: PHY 2049, PHY 2049L</td>
<td>3(1.5)</td>
<td>State-of-the-art electronics, transducers, operational amplifiers, phase sensitive circuits, active filters.</td>
</tr>
<tr>
<td>PHY 3752C AS-PHYS</td>
<td>Physics of Scientific Instruments: PR: PHY 3101 or C.I. Applications, functions and operation of electronic instruments.</td>
<td>3(1.5)</td>
<td></td>
</tr>
<tr>
<td>PHY 3802L AS-PHYS</td>
<td>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.</td>
<td>3(1.5)</td>
<td>May be repeated for credit.</td>
</tr>
<tr>
<td>PHY 4324 AS-PHYS</td>
<td>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.</td>
<td>3(3.0)</td>
<td></td>
</tr>
<tr>
<td>PHY 4424 AS-PHYS</td>
<td>Optics: PR: PHY 3101 and PHY 3323. Wave optics, absorption, stimulated emission, lasers, transforms, coherence, holography.</td>
<td>3(3.0)</td>
<td></td>
</tr>
<tr>
<td>PHY 4445 AS-PHYS</td>
<td>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.</td>
<td>3(3.0)</td>
<td></td>
</tr>
<tr>
<td>PHY 4604 AS-PHYS</td>
<td>Wave Mechanics I: PR: PHZ 3113. Postulates of Quantum Mechanics. Operators and Observables, Schrödinger equation with simple applications.</td>
<td>3(3.0)</td>
<td></td>
</tr>
<tr>
<td>PHY 4605 AS-PHYS</td>
<td>Wave Mechanics II: PR: PHY 4604. Further applications of quantum mechanics, perturbation theory, scattering theory, identical particles.</td>
<td>3(3.0)</td>
<td></td>
</tr>
<tr>
<td>PHY 4803L AS-PHYS</td>
<td>Advanced Physics Laboratory: PR: PHY 3802L. Experiments in optics, electronics, nuclear and solid state physics. Emphasis on design, data, and scientific writing.</td>
<td>3(1.5)</td>
<td></td>
</tr>
<tr>
<td>PHY 4942C AS-PHYS</td>
<td>Practicum in Physics: PR: C.I. Physics laboratories and demonstrations, and the study of recent research on the learning of physics.</td>
<td>3(2.3)</td>
<td></td>
</tr>
<tr>
<td>PHY 5015C AS-PHYS</td>
<td>Physics for Teachers II: PR: C.I. “Hands-on” laboratory course. Dynamics, electricity, magnetism, optics, nuclear radiation.</td>
<td>3(2.2)</td>
<td></td>
</tr>
<tr>
<td>PHY 5100 AS-PHYS</td>
<td>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.</td>
<td>1(1.0)</td>
<td></td>
</tr>
<tr>
<td>PHY 5140C AS-PHYS</td>
<td>Ion-Solid Interactions: PR: PHY 4604 or PHY 4524. Physical principals and related scientific and technological applications of ion-solid interactions.</td>
<td>3(3.2)</td>
<td></td>
</tr>
<tr>
<td>PHY 5200C AS-PHYS</td>
<td>Newtonian Mechanics for Teachers: PR: C.I. A lab, lecture, demonstration course studying selected topics in classical mechanics.</td>
<td>1(0.5,1.5)</td>
<td></td>
</tr>
<tr>
<td>PHY 5320C AS-PHYS</td>
<td>Classical Mechanics for Teachers: PR: C.I. Circuits, multimeters, oscilloscopes, circuit elements.</td>
<td>1(0.5,1.5)</td>
<td></td>
</tr>
<tr>
<td>PHY 5322C AS-PHYS</td>
<td>Electromagnetism for Teachers: PR: C.I. Gauss’s Law, Biot-Savart Law, Ampere’s Law, Faraday’s Law, Lenz’s law, motors, generators, AC circuits and Maxwell’s Equations.</td>
<td>1(0.5,1.5)</td>
<td></td>
</tr>
<tr>
<td>PHY 5346 AS-PHYS</td>
<td>Electrodynamic 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.</td>
<td>3(3.0)</td>
<td></td>
</tr>
<tr>
<td>PHY 5401C AS-PHYS</td>
<td>Optics for Teachers: PR: C.I. Geometrical and physical optics, spectrometers and lasers.</td>
<td>1(1.0)</td>
<td></td>
</tr>
<tr>
<td>PHY 5455 AS-PHYS</td>
<td>Modern X-Ray Science: An introduction to the scientific and applications of modern x-ray optics, x-ray lasers, etc., with a review of basic properties of x-rays.</td>
<td>3(3.0)</td>
<td></td>
</tr>
<tr>
<td>PHY 5465C AS-PHYS</td>
<td>Wave Motion for Teachers: PR: C.I. Water waves, waves on strings, sound and vibrations.</td>
<td>1(0.5,1.5)</td>
<td></td>
</tr>
<tr>
<td>PHY 5500C AS-PHYS</td>
<td>Thermal Physics for Teachers: PR: C.I. Engines, heat pumps, kinetic theory, phase changes, radiation, weather.</td>
<td>1(1.0)</td>
<td></td>
</tr>
<tr>
<td>PHY 5524 AS-PHYS</td>
<td>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.</td>
<td>3(3.0)</td>
<td></td>
</tr>
<tr>
<td>PHY 5601 AS-PHYS</td>
<td>Quantum Physics for Teachers: PR: C.I. Hydrogen atom, diatomic molecules, heat capacity transition rates.</td>
<td>1(1.0)</td>
<td></td>
</tr>
<tr>
<td>PHY 5606 AS-PHYS</td>
<td>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.</td>
<td>3(3.0)</td>
<td></td>
</tr>
<tr>
<td>PHY 5846C AS-PHYS</td>
<td>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.</td>
<td>3(3.3)</td>
<td></td>
</tr>
</tbody>
</table>

UCF Courses and Descriptions

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 memos, letters, 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 CCI 3024 or C.I. Rules of criminal procedure, with emphasis on Florida rules, including right to counsel, bail, search and seizure, arrest, identification, trial, and post-trial proceedings.

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.

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 examination of statutes and cases that define rules of evidence 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 contracts 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 corporations; creation and dissolution of business organizations; 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 governing governmental agencies with emphasis on the administrative process, Administrative 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)
Estate’s and Trusts: PR: PLA 3013, PLA 3504. A study of wills and trusts, and applicable legal principles of administration of estates through the processes 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 rights on land use, including planning, zoning, subdivision and building regulations, with emphasis on recent interpretations by judiciary for environmental protection.

PLA 4700 HPA-CJ/LS 3(3,0)

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 C.I. Course will acquaint students with contemporary computer 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)

PLA 4825 HPA-CJ/LS 3(3,0)
Entertainment Law: PR: PLA 3013 or C.I. Introduction to the control and regulation of the entertainment industry and the associated legal issues.

PLA 4862 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 4863 HPA-CJ/LS 3(3,0)
World Legal Systems: PR: PLA 3013 or equivalent. An examination of various legal traditions and systems of the World. Substantive and procedural laws will be examined.

PLA 4910 HPA-CJ/LS 3(4,0)
Trial Advocacy: PR: PLA 3013 or C.I. 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, Legal 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)

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 factors affecting 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, emphasizing 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 political 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 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, administrative responsibilities, leadership, and decision-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 institution 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; topics include development, organization, reforms, legislative 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...
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 Constitutional Law I: PR: POS 2042 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 3041. 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 Marxian, 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: Study of Marx & Engels and other thinkers, exposing 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 relationships 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 3002. 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: POS 2042. 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 3002. An advanced course designed for web instruction. Focuses on pharmacology, neurophysiology and neuroanatomy as the foundation of understanding, behavior and social consequences of drug use.

PSB 3842 AS-PSYCH 3(3,0) Sleep and Dreams: PR: PSY 3002. 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.


PSY 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.

PSY 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 processes and equations, properties of gases, liquids, solids, solutions.

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 3002. 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 3002 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.
UCF Courses and Descriptions

PSY 3214H AS-Psych 4(3,2) Honors Research Methods in Psychology: PR: Permission of Honors and PSY 3214 or STA 2043. Investigation of experimental design and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format. Honors content.


PSY 3301 AS-Psych 3(3,0) Psychological Measurement: PR: PSY 3214C and STA 2104C or STA 2201. A study of the theory underlying psychological tests and measurements procedures, including reliability, validity, and item analysis.

PSY 3624 AS-Psych 3(3,0) Parapsychology: PR: PSY 3214. 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 3214 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 4215L AS-Psych 3(0,3) Advanced Research Methods Statistical Lab: PR: PSY 2214C 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 2302. Application of the theory underlying psychological test and measurement procedures, including reliability, validity, and item analysis.

PSY 4604 AS-Psych 3(3,0) History and Systems of Psychology: PR: EXP 3404 and PPE 3003. Historical development of psychology, with emphasis on classical theoretical positions.

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. 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, 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 citizenship 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 relationship 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. Field work and special projects.

PUP 4980 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 4981 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 advance organizational goals.

RAT 3001 HPA-HP 3(3,0) Introduction to Radiation Oncology: PR: Acceptance into program. An overview of radiation therapy treatment procedures and patient care considerations.

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 3424 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 (2,0) 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 II: 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, 3549, 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) Clinical Education II: PR: RAT 4814. Continued supervised clinical practice in patient care, education, simulation, treatment planning and delivery and utilization of treatment units.

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 3-5
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 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 to lease-up, long-term financing, and final sale to the investment community.

REL 2300 AS-PHIL 3(3,0) World Religions: Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam.


REL 3131 AS-PHIL 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-PHIL 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 normal and abnormal findings. Case studies and theory. Chest radiography will be extensively covered. Lecture and demonstration.


RET 3875 HPA-HP 8(1,24) Clinical Practice II: PR: C.I. Patient care with advanced respiratory equipment. Tracheostomy care. Introduction to cardiopulmonary resuscitation. Introduction to critical care units. Advanced life support techniques and equipment.


RET 4284 HPA-HP 3(3,0) Cardiopulmonary Diagnostics I: PR: RET 4244C and RET 4284C. Invasive cardiac diagnostic and therapeutic measures, including cardiac catheterization, 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 color flow doppler examination of arterial and venous systems.

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-dimensional echo, conventional doppler, and color doppler.
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 1120 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 2231, 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 locution. 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: Jr. 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 curricular.

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)

Methods in Elementary School Science: Pr. EDG 4323. Organization of instruction in elementary school science including methods, evaluation, materials, strategies, and current practices.

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-PYSYCH 3(3,0)


SOP 3004 AS-PYSYCH 3(3,0)

Social Psychology: Pr. PSY 2012. Effects of social situations and social variables on the behavior of individuals.

SOP 3723 AS-PYSYCH 3(3,0)

Cross Cultural Psychology: Pr. PSY 2012. Exploration of theories, issues, and research concerned with the psychological understanding of under-represented minority groups.

SOP 3724 AS-PYSYCH 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-PYSYCH 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-PYSYCH 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-PYSYCH 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)

Assessing II: Human Systems: Pr. or Cr: SOW 3104, Development of skills in assessing families, groups, organizations, and communities, their impact on human functioning, and their potential for providing social support.

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(1,2)

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 consulassual as well as conflictual contexts of social work.

SOW 3401 HPA-SOWK 3(3,0)

Social Work Research: Pr. CGS 1060C. Study of qualitative and quantitative 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)

Social Welfare Policies and Issues: Pr. SOW 3203 or equivalent. Development of skills needed to critically analyze social welfare goals, structures, and practices. Proposes improvements in societal resource systems.

SOW 4341 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 with individuals, families and supportive and remedial groups.

SOW 4343 HPA-SOWK 3(1,2)

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 4510 HPA-SOWK 9(0,28)

Field Education Seminar: Pr. Completion of required courses in major: CR: SOW 4510. Weekly seminar to examine the field experience and to relate theory with practice situations.

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, SSW 3104, or Gerontology Certificate Major. Development of interventive 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)

Human Behavior and Social Environment I: Individual: Pr. Admission to MSW program. Study of human development and psychosocial functioning of individuals at various life stages with particular attention to implications of human diversity.
SOCW 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.

SOCW 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.

SOCW 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.

SOCW 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.

SOCW 5305 HPA-SOWK 3(3,0)
Social Work Practice I: Generalist Practice: PR: Graduate status or C.I. Study of social work functions, knowledge, values, roles and skills; the use of a generalist model of practice.

SOCW 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.

SOCW 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.

SOCW 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.

SOCW 5404 HPA-SOWK 3(3,0)
Social Work Research: Study of group research designs in social work; quantitative analyses; and related ethical issues.

SOCW 5432 SPA 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.

SOCW 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.

SOCW 5533 HPA-SOWK 2(2,0)
Generalist Field Education II: PR: MSW. Continuation of SOCW 5532 Generalist Field Education I in the same field agency for 224 clock hours. Graded S/U.

SOCW 5534 HPA-SOWK 1(1,0)
Generalist Field Education Integrative Seminar I: PR: Admission to MSW program. CR: SOCW 5532. Seminar designed to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U.

SOCW 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.

SOCW 5604 HPA-SOWK 3(3,0)
Medications in Social Work Practice: PR: graduate standing, pass-carbon, senior in MSW program or C.I. The study of the effects that psychotherapeutic medications can have within the counseling/helping relationship.

SOCW 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.

SOCW 5625 HPA-SOWK 3(3,0)
Social Work with Women: Alternative approaches to the treatment of women in the urban setting.

SOCW 5642 HPA-SOWK 3(3,0)
Aging in Social Settings: PR: Admission to MSW program or Gerontology Certificate Program or C.I. Knowledge about elderly in social situations or environmental context.

SOCW 5644 HPA-SOWK 3(3,0)
Interventions with Elderly and Their Families: PR: Admission to Gerontology graduate certification program or MSW program or C.I. Study of concepts, skills, models and theories for intervening with aged. Special attention is given to minority populations.

SOCW 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.

SOCW 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.

SOCW 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.

SOCW 5695 HPA-SOWK 3(3,0)
Documentation Skills for Helping Professionals: PR: MSW Social Work Students, C.I. Study of documentation skills and record keeping for helping professionals.

SOCW 5712 HPA-SOWK 3(3,0)
Interventions with Substance Abusers: Strategies for working with persons who abuse drugs, alcohol, and other substances.

SOCW 5713 HPA-SOWK 3(3,0)
Prevention and Treatment of Adolescent Substance Abuse: PR: Graduate Status or C.I. An indepth review of prevention, intervention and treatment of Adolescent Substance Abuse

SOCW 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 majors.

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 diseases of the nervous system.

SPA 3112 HPA-COMD 3(3,0)
Basic Phonetics: PR: SPA 3111L. Physiological descriptions and visual notation 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 DHH 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 intervention. Emphasis on goal setting, motivation, behavioral 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 by 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-
ners, including those associated with structural variations and neuromotor disorders.

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 4201 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 Signing, 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 4614 HPA-COMD 3(3,1) American Sign Language III: PR: SPA 4613. Communication emphasis on refining fluency receptive- and expressively. Practicum with the deaf community.

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 basic skill levels.

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.

SPA 4660C HPA-COMD 4(3,1) Interactive Interpreting I: PR: SPA 4612, SPA 4613 and SPA 4614C or C.I. Theories, guidelines, principles and practices of interpreting, including interpreter's role, professional behavior and interpreting ethics, and environmental considerations of interpreting situations.

SPA 4662C HPA-COMD 4(3,1) Interactive Interpreting II: PR: SPA 4660C or C.I. Advanced cognitive, linguistic and motor skill development in the use of ASL.

SPA 5327 HPA-COMD 3(3,0) Aural Habilitation/Rehabilitation: PR: SPA 6040. Principles and procedures involved in speech and language acquisition, management, utilization of residual hearing, speech reading, and the use of hearing aids.

SPA 5473 HPA-COMD 3(3,0) Multicultural Aspects of Communication Disorders and Differences: PR: Graduate status. Introduction to cultural and linguistic diversity among individuals with communication disorders and differences. Special emphasis on African, Hispanic, Asian, and Native-American.

SPA 5477 HPA-COMD 3(3,0) Aging and Communication: PR: Senior status or C.I. Study of the changes in communication with normal aging, focusing on assessment and management of older individuals with communication disorders.

SPA 5559 HPA-COMD 3(3,0) Augmentative and Alternative Communication Systems: PR: Senior status or C.I. The total integrative network of techniques, aids, strategies, and skills individuals use to supplement or replace inadequate natural speaking ability.

SPA 5561 HPA-COMD 3(3,0) Counseling in Communicative Disorders: PR: Senior Status or C.I. Interviewing and counseling for individuals with communication disorders and their families.

SPA 5570 HPA-COMD 3(3,0) Administration and Management of Communicative Disorders Programs: PR: SPA 6053, SPA 5227, seminar. Methods and techniques for organization and administration of speech-language and hearing disorders in public school, hospital, rehabilitation center, and private practice facilities.

SPC 1016 AS-COMM 3(3,0) Fundamentals of Technical Presentations: Preparation and presentation of technical information in public speaking situations.

SPC 1016H AS-COMM 3(3,0) Honors Fundamentals of Technical Presentation: PR: Honors college. The preparation and presentation of technical information in public speaking situations.

SPC 1600 AS-COMM 3(3,0) Fundamentals of Oral Communication: Use of the body and voice; participation in various speaking situations; planning, organizing, and delivering public speeches.


SPC 4345 AS-COMM 3(3,0) Leadership Through Oral Communication: PR: COM 3120 and COM 3111. A theoretical and practical investigation of leadership in oral communication situations, principles of parliamentary law, and approaches to problem solving.

SPC 3513 AS-COMM 3(1,2) Argumentation and Debate: PR: SPC 1600C or C.I. Study and practice in the preparation and delivery of argumentative speeches emphasizing argument, evidence, and organization.

SPC 3602 AS-COMM 3(1,2) Advanced Public Speaking: PR: SPC 1600C or C.I. Advanced training in selecting and organizing materials for various types of speeches. Practice in thinking and speaking before audiences.

SPN 1120 AS-LANG 4(4,1) Intermediate Spanish Language and Civilization I: Introduces the student to Spanish culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language.

SPN 1121 AS-LANG 4(4,1) Elementary Spanish Language and Civilization II: PR: SPN 1120 or equivalent. Continuation of SPN 1120.

SPN 1130H AS-LANG 4(4,1) Honors Elementary Spanish Language and Civilization I: Introduces the student to Spanish culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language.

SPN 1131H AS-LANG 4(4,1) Honors Elementary Spanish Language and Civilization II: PR: SPN 1130H or equivalent. Same as SPN 1121 with honors-level content.

SPN 1170 AS-LANG 8(16,10) Elementary Spanish Study Abroad: Elementary Spanish language and civilization taught in the native environment.

SPN 2230 AS-LANG 3(3,1) Intermediate Spanish Language and Civilization I: PR: SPN 1121 or equivalent. Development of language skills and cultural knowledge at the intermediate level.

SPN 2231 AS-LANG 3(3,1) Intermediate Spanish Language and Civilization II: PR: SPN 2230 or equivalent. Continuation of SPN...
2230, with emphasis on Spanish civilization.

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 realea 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 3322 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 emphasis 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.

SPN 3512 AS-LANG 3(3,0) Contemporary Spanish Culture Abroad: PR: SPN 2241 or 3420. This course will focus on contemporary Spanish culture presented through classroom lectures and discussions, assigned reading and scheduled activities.

SPN 3760 AS-LANG 3(3,0) Advanced Spanish Oral Communication: PR: SPN 2231 or SPN 2240 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.

SPN 3850 AS-LANG 3(3,0) Structure of the Spanish Language: PR: 3420. Linguistic theory applied to analysis of Spanish language. Includes systematic study of sound patterns, semantics, word formations, and socializations.

SPN 3852 AS-LANG 3(3,0) Bilingualismo: PR: SPN 3760, SPN 3420 and SPN 3300 or C.I. Spanish-English bilingualism in the United States. Models of language acquisition in bilinguals, domains of language use, maintenance, shift, transfer, diversity, attitudes, code-switching, attrition and contact.

SPN 3933 AS-LANG 3(1,0) Spanish Across the Curriculum: PR: SPN 2231 or C.I. CR: concurrent enrollment in a designated course. Improvement of skills in Spanish within the student's major or minor. Open to students in all colleges. May be repeated for credit.

SPN 4143 AS-LANG 3(3,0) Business Spanish IV PR: C.I. Advanced course in business terminology and development of advanced language skills.

SPN 4410 AS-LANG 3(3,0) Advanced Spanish Conversation: PR: SPN 3760, SPN 3420, and SPN 3300 or C.I. Advanced conversation on directed topics from various disciplines: literature, art, psychology, philosophy, music, business, and the sciences.

SPN 4421 AS-LANG 3(3,0) Advanced Spanish Composition: PR: SPN 3300, SPN 3420, SPN 3760 or C.I. Readings and written imitations of modern literary styles in the form of themes, sketches, poems, and original stories.

SPN 4510 AS-LANG 3(3,0) Spanish Civilization and Culture: PR: SPN 3760, SPN 3420 and SPN 3300 or C.I. A study of Spanish civilization and culture from Pre-Roman times to the present. Conducted in Spanish.

SPN 4520 AS-LANG 3(3,0) Latin American Civilization and Culture: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. An overview of the currents in Latin American culture and civilization from the Pre-Columbian period to the present. Conducted in Spanish.

SPN 4780 AS-LANG 3(3,0) Spanish Phonetics: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Students will learn the basic principles of Spanish phonetics and perfect the correct pronunciation of Spanish through intensive practice and oral drill.

SPN 5000 AS-LANG 3(3,0) Spanish American Syntax: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Emphasizes the structure as well as the capacity for recognizing the differences between semantics, morphology, syntax, and phonology in the Spanish language, as well as the use and correct application of criterion when analyzing texts. Taught in Spanish.

SPN 5502 AS-LANG 3(3,0) Hispanic Culture of the United States: PR: Graduate Standing or C.I. An analysis of the Hispanic culture of the United States, past and present.

SPN 5505 AS-LANG 3(3,0) Spanish Peninsular Culture and Civilization: PR: Graduate Standing or C.I. An analysis of the salient characteristics of Spanish culture and civilization.

SPN 5506 AS-LANG 3(3,0) Spanish American Culture and Civilization: PR: Graduate Standing or C.I. An analysis of the salient characteristics of Spanish American culture and civilization.

SPN 5705 AS-LANG 3(3,0) Introduction to Spanish Linguistics: PR: Graduate Standing or C.I. An introduction to main concepts and methods of analyses focusing on Spanish morphology, syntax, semantics, and phonology as well as dialectology and sociolinguistics.

SPN 5825 AS-LANG 3(3,0) Spanish Dialectology: PR: Graduate Standing or C.I. This course is a survey of the diversity found within the Spanish language with respect to phonological constraints, morphosyntax, second language influences, and historical development.

SPN 5845 AS-LANG 3(3,0) History of the Spanish Language: PR: Graduate Standing or C.I. An overview of linguistic characteristics of Latin and its evolution into Spanish with historical development of phonetic, morphological, and syntactic properties.

SPN 5920 AS-LANG 3(3,0) AP Spanish Language: Participants will enhance their knowledge of the language and culture of Spanish-speaking peoples and develop further proficiency in listening, comprehension, speaking, reading, and writing.

SPT 3800 AS-LANG 3(3,0) Spanish Translation and Interpretation: PR: Completion of 2000 level sequence or equivalent. Introduction to translation and interpretation, practical applications of theory applied to professional written and audio texts from Spanish to English and from English to Spanish.

SPT 3805 AS-LANG 3(3,0) Spanish Translation and Interpretation for Mass Communication: PR: SPN 3420. Translation and interpretation in mass communication using all forms of media.

SPT 3809 AS-LANG 3(3,0) Medical Spanish Translation and Interpretation: PR: SPN 2241 and SPN 3420. The basic Spanish terminology, techniques and ethics in the field of medical translation and interpretation.

SPT 3831 AS-LANG 3(3,0) Spanish Legal Translation and Interpretation: PR: SPN 3420 and SPN 2241. The terminology, procedures and ethics required to be a Spanish-language court interpreter and translator in the legal field. May be repeated for credit.

SPT 4801 AS-LANG 3(3,0) Spanish Translation Practicum: PR: SPT 3800. Development of translation and interpretation skills in a professional environment. Concentration in legal, medical, and business areas.

SPW 3000H AS-LANG 3(3,0) Honors: Nobel Prize Literature: Spain and Latin America: PR: Honors, Junior standing or C.I. Students will analyze, discuss and research English translations of Spanish and Latin American Nobel-Prize-Winning writers. Through readings, students will...
explore the universality of Spanish literature.

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 3130 AS-LANG 3(3,0)
Survey of Latin-American Literature I: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works of the colonial period to Nineteenth Century Romanism.

SPW 3131 AS-LANG 3(3,0)
Survey of Latin-American Literature II: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works of the Nineteenth century from Realism to the present.

SPW 3320 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 3321 AS-LANG 3(3,0)

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 4272 AS-LANG 3(3,0)
20th Century Spanish Novel: PR: SPW 3101 or SPW 3131 or C.I. Major works of the leading authors of the 20th century. Texts selected are studied not only for their aesthetic value, but also in terms of their historical and cultural significance.

SPW 4310 AS-LANG 3(3,0)
Golden Age Drama: PR: SPW 3101 or C.I. A study of the drama of the Golden Age, with special emphasis on Lope, Tirso, Alarcon, and Calderon. The controversies of the Spanish theatre and its influence abroad are examined.

SPW 4322 AS-LANG 3(3,0)
Contemporary Iberian Theatre: PR: SPW 3101 or C.I. A study of the major playwrights and tendencies in contemporary Iberian theatre.

SPW 4364 AS-LANG 3(3,0)
Latin-American Narrative/Essay: PR: SPW 3100 or SPW 3130 or SPW 3111 or SPW 3310 or C.I. Study of Latin-American narrative/essay (changing topics by semester) with emphasis in 20th century texts, contrasting techniques, procedures, and literary theories. Course could be repeated for credit when topic changes.

SPW 4381 AS-LANG 3(3,0)
Latin-American Theatre/Poetry: PR: SPW 3100 or SPW 3111 or SPW 3130. Study of Latin-American theatre/poetry (changing topics by semester) with emphasis in 20th century texts, contrasting techniques, procedures, and literary theories. Course could be repeated for credit when topic changes.

SPW 4450 AS-LANG 3(3,0)
Spanish Literary Theory: PR: SPW 3100 and SPW 3101, or SPW 3130 and 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 4730 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. An overview of the literature of the Spanish-speaking Caribbean countries from colonial times to the present.

SPW 4772 AS-LANG 3(3,0)
Black Presence in Contemporary Latin American Literature: PR: SPW 3101 or SPW 3131 or C.I. Analysis and discussion of representative contemporary work 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 3(4,3,2)
Social Science Instructional Analysis: PR: EDG 4323 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 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 2014C AS-STAT 3(3,0)
Biostatistical Methods: PR: STA 4183 (or new number STA 4165). Introduction to statistical methods used in the health sciences. Not open to students with credit in STA 4165. Methods of analyzing data, statistical models, estimation, tests of hypotheses, regression and correlation, an introduction to analysis of variance, chi-square, and nonparametric methods.

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 2112 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 4165 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 4165). Economics of insurance, utility theory, single premiums 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 4163. 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 2132 (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 Graduation: PR: STA 4322. Graduation, moving weighted averages methods, Whittaker-
UCF Courses and Descriptions

Henderson, Baysian and parametric methods, smooth-junction formula, graduation of selected data.

STA 4222 AS-STAT 3(3,0)

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 4322 AS-STAT 3(3,0)

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 4173. Two-way and three-way contingency tables, odds ratios, partial association, logistic regression and log linear models.

STA 4641 AS-STAT 3(3,0)

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 4675 AS-STAT 3(3,0)

STA 4676 AS-STAT 3(3,0)

STA 4682 AS-STAT 3(3,0)

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 5103. 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 5139 AS-STAT 3(3,0)

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, incomplete block designs, factorial and fractional designs; design resolution.

STA 5206 AS-STAT 3(3,0)
Statistical Analysis: PR: STA 2023; not open to 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 5646 AS-STAT 3(3,0)

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 5825 AS-STAT 3(3,0)

STA 5940 AS-STAT 1(1,0)

SUR 2010C ECTS-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 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 3400 AS-SOC/AN 4(3,1)
Research Methods and Statistics: PR: SYG 2000 and one other sociology course.

SYA 4112 AS-SOC/AN 3(3,0)

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 social data management, various modes of social data analysis, interpretation, integration, presentation, and report writing.

SYA 4650C AS-SOC/AN 3(2,2)

SYA 5625 AS-SOC/AN 3(3,0)
ProSemin, 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)

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)

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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>SYD 3800</td>
<td>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.</td>
</tr>
<tr>
<td>SYD 4020</td>
<td>AS-SOC/AN 3(3,0) Population: Concerned with the study of human population, its distribution, composition, and change.</td>
</tr>
<tr>
<td>SYD 4510</td>
<td>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.</td>
</tr>
<tr>
<td>SYD 5795</td>
<td>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.</td>
</tr>
<tr>
<td>SYG 2000</td>
<td>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.</td>
</tr>
<tr>
<td>SYG 2000H</td>
<td>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.</td>
</tr>
<tr>
<td>SYG 2010</td>
<td>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.</td>
</tr>
<tr>
<td>SYG 3949</td>
<td>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.</td>
</tr>
<tr>
<td>SYO 3000</td>
<td>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.</td>
</tr>
<tr>
<td>SYO 3360</td>
<td>AS-SOC/AN 3(3,0) Social Organization and Human Relations: Analysis of business, government, and industrial organizations. Topics include organizational theory, social systems, social structure, effects of technology, motivation, leadership, decision-making, and human relations.</td>
</tr>
<tr>
<td>SYO 3410</td>
<td>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 mental health processes.</td>
</tr>
<tr>
<td>SYO 3530</td>
<td>AS-SOC/AN 3(3,0) Social Stratification: PR: SYG 2000 or C.I. Study of class, status, and power, cultural variations in stratification systems; patterns of mobility and change.</td>
</tr>
<tr>
<td>SYO 4100</td>
<td>AS-SOC/AN 3(3,0) Family Trends: PR: SYG 2000 or C.I. Study of intimate relationships, practices, trends and issues affecting today's marriages and families.</td>
</tr>
<tr>
<td>SYO 4200</td>
<td>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.</td>
</tr>
<tr>
<td>SYO 4250</td>
<td>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.</td>
</tr>
<tr>
<td>SYO 4300</td>
<td>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.</td>
</tr>
<tr>
<td>SYO 4400</td>
<td>AS-SOC/AN 3(3,0) Medical Sociology: Analysis of patient beliefs and behavior, health practitioner, the social organization of hospitals and health services, contemporary problems in the delivery of health care.</td>
</tr>
<tr>
<td>SYP 3300</td>
<td>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.</td>
</tr>
<tr>
<td>SYP 3510</td>
<td>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.</td>
</tr>
<tr>
<td>SYP 3511</td>
<td>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.</td>
</tr>
<tr>
<td>SYP 3520</td>
<td>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.</td>
</tr>
<tr>
<td>SYP 3530</td>
<td>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.</td>
</tr>
<tr>
<td>SYP 3540</td>
<td>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.</td>
</tr>
<tr>
<td>SYP 3551</td>
<td>AS-SOC/AN 3(3,0) Sociology of Alcoholism: Introduction to the nature of alcoholism and review of its impact on society.</td>
</tr>
<tr>
<td>SYP 3602</td>
<td>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.</td>
</tr>
<tr>
<td>SYP 3630</td>
<td>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.</td>
</tr>
<tr>
<td>SYP 3650</td>
<td>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.</td>
</tr>
<tr>
<td>SYP 4000</td>
<td>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.</td>
</tr>
<tr>
<td>SYP 4004</td>
<td>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 legitimating organizations. Topics include deviance, race, gender and popular culture.</td>
</tr>
<tr>
<td>SYP 4323</td>
<td>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.</td>
</tr>
<tr>
<td>SYP 4454</td>
<td>AS-SOC/AN 3(3,0) Sociology of the Global System: PR: SYG 2000 or C.I. Theoretical and empirical examination of the sociological process of global stratification and the countervailing force of an emergent anti-globalization social movement.</td>
</tr>
<tr>
<td>SYP 4514</td>
<td>AS-SOC/AN 3(3,0) Sociology of Violence: PR: SYG 2000 or C.I. Social roots, culture, circumstances, prevention, and control of violence.</td>
</tr>
<tr>
<td>SYP 4521</td>
<td>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.</td>
</tr>
<tr>
<td>SYP 4536</td>
<td>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.</td>
</tr>
<tr>
<td>SYP 4550</td>
<td>AS-SOC/AN 3(3,0) Sociology of Drug Abuse: Analysis of the socio-cultural elements of the drug culture.</td>
</tr>
<tr>
<td>SYP 4730</td>
<td>AS-SOC/AN 3(3,0) Sociology of Aging: Sociological aspects of aging in America.</td>
</tr>
<tr>
<td>SYP 4734</td>
<td>AS-SOC/AN 3(3,0) Minority Aging: PR: SYG 2000 or SYD 3700 or SYP 4730 or C.I. A sociological examination of older populations within minorities: ethnic minorities, women, and gay men and lesbians.</td>
</tr>
<tr>
<td>SYP 4810</td>
<td>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.)</td>
</tr>
<tr>
<td>SYP 4813</td>
<td>AS-SOC/AN 3(3,0) Women and Social Policy: PR: SYG 2000 or C.I. The process of social movements and how they impact legalized social norms for women in public and private life.</td>
</tr>
<tr>
<td>SYP 5005</td>
<td>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.</td>
</tr>
</tbody>
</table>
| 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 student's skills in developing conducting sociological research.
SYP 5562 AS-SOC/AN 3(3,0) Seminar on Domestic Violence: Theory, Research, and Social Policy: PR: Graduate status or C.I. A sociological examination and evaluation of theories, empirical research and social policy related to the study of domestic violence.

SYP 5738 AS-SOC/AN 3(3,0) Seminar on the Welfare State & Aging: PR: Graduate standing or C.I. A sociological examination of old policies from a cross-cultural perspective.

TAX 2000 BA-ACCT 3(3,0) Personal Income Tax: A study of federal income tax designated to convey basic tax concepts and skills related to the individual taxpayer. Not open to accounting majors.

TAX 4001 BA-ACCT 3(3,0) Federal Income Tax I: 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.

TAX 5015 BA-ACCT 3(3,0) Advanced Tax Topics: PR: TAX 4001 or TAX 4XXX (Taxation of Business Entities), or equivalent. Advanced tax issues affecting individuals and business entities, including corporations and partnerships.

THE 2000 AS-THEA 3(3,0) Theatre Survey: Overview of the art and craft of the theatre. Restricted to non-majors.


THE 2020 AS-THEA 3(3,0) Survey of Theatre for Majors: PR: Theatre major or departmental consent. Overview of the art and craft of theatre.

THE 2090 AS-THEA 1(0,20) Theatre Production/Performance I: PR: B.A. Theatre major or C.I. Non-majors require departmental permission. Participation in UCF Theatre productions. Required of all BA theatre majors.

THE 2091 AS-THEA 1(0,20) Theatre Production/Performance II: PR: THE 2090, 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.


THE 3092 AS-THEA 1(0,20) Theatre Production/Performance III: PR: THE 2091, 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.

THE 3110 AS-THEA 3(3,0) Theatre History I: PR: THE 2020 or THE 2000, and THE 3303 or TPP 3650. Theatre majors or departmental consent. The development of theatre arts from prehistory through the seventeenth century.

THE 3111 AS-THEA 3(3,0) Theatre History II: PR: THE 3110, THE 3305. Theatre major or departmental consent. Theatre arts from the seventeenth century to the present.

THE 3230 AS-THEA 3(3,0) Commonality within Cultural Diversity Experienced through Theater: PR: THE 2020 or THE 2000. Through the study of dramatic literature, this course explores the commonality of human experience among various cultural groups.


THE 3303 AS-THEA 3(3,0) Play Analysis: PR: Restricted to B.A. Theatre majors or departmental consent. A lecture course providing an overview of different elements found in the world of the play and the written text. Emphasis on theory and structure.


THE 4093 AS-THEA 1(0,20) Theatre Production/Performance IV: PR: THE 3092, 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.

THE 4094 AS-THEA 1(0,20) Theatre Production/Performance V: PR: THE 4093, 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.

THE 4096 AS-THEA 1(0,20) Theatre Production/Performance VI: PR: THE 4094, Theatre Major or C.I. Participation in UCF Theatre productions. Not restricted to Theatre majors but requires departmental consent.

THE 4097 AS-THEA 1(0,20) Theatre Production/Performance VII: PR: THE 4096, Theatre Major or C.I. Participation in UCF Theatre productions. Not restricted to Theatre majors but requires departmental consent.

THE 4098 AS-THEA 1(0,20) Theatre Production/Performance VIII: PR: THE 4097, Theatre Major or C.I. Participation in UCF Theatre productions.


THE 5246C AS-THEA 3(3,2) Musical Theatre: PR: graduate acting 1. Historical study of the origins and development of musical theatre up to and including the work of Andrew Lloyd Webber.

THE 5269 AS-THEA 3(3,0) Period Props, Furniture & Architecture: PR: Admission into the graduate program & Research Methods (no i assigned). Advanced Chronological study of historical genres and styles of furniture, ornament and design and their interrelationships.

THE 5275 AS-THEA 3(3,0) Survey of Musical Theatre Dance: PR: Admission to MFA Musical Theatre Program. A chronological and theoretical study of the major choreographers and choreographer/directors of musical theatre.


THE 5376 AS-THEA 3(3,0) Theatre/Drama of Williams, Miller, and Inge: 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.

THE 5910 AS-THEA 3(3,0) Research Methods in Theatre: 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.

THE 5945L AS-THEA 1(0,20) Theater Practicum I: PR: Admission into the graduate program. A laboratory course designed to develop students’ practical working knowledge in Theatre.

THE 5946L AS-THEA 1(0,20) Theater Practicum II: PR: Admission into the graduate program, Theater Practicum I. A laboratory course designed to develop students' practical working knowledge in theater.


TPA 20710 AS-THEA 3(2,2) Theatre Rendering: PR: THE 2000, TPA 2000C. Specific rendering techniques used to create visual images for scenic, lighting, and costume designers.


TPA 2220 AS-THEA 3(2,2) Stage Lighting: PR: TPA 2211. Restricted to B.F.A. Theatre majors or B.A. Theatre majors with Departmental consent. Study of basic electricity, optics, lighting equipment and control, and stage lighting techniques and practices. Service on a lighting crew as required. Required of all technical theatre/design majors.


TPA 2290 AS-THEA 1(0,20) Theatre Production/Performance I: PR: Not restricted to Theatre majors but requires Departmental consent. Participation in Theatre Production. Required of all B.F.A. technical theatre/design majors.

TPA 2291 AS-THEA 1(0,20) Theatre Production/Performance II: PR: TPA 2290, open to non-Theatre majors with Departmental consent. Participation in Theatre Production. Required of all B.F.A. technical theatre/design majors.
TTP 3040 AS-THEA 3(2,2)  
Costume Design  PR: TTP 3320, TTP 3044C and two semesters of art. Restricted to B.F.A. Theatre majors. Lecture/laboratory/application of the fundamentals of design, composition, 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.

TTP 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.

TTP 3044C AS-THEA 3(3,1)  
Costume History II  PR: TTP 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.

TTP 3060 AS-THEA 2(2,2)  
Scenic Design I  PR: TTP 2211, THE 3303 or TTP 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, composition, color theory, drafting, perspective drawing, and rendering as they relate to scenic design. Required of all technical theatre/design majors.

TTP 3061 AS-THEA 3(2,2)  
Scenic Design II  PR: TTP 3060. Restricted to B.F.A. technical theatre/design majors or Departmental consent. Continuation of TTP 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.

TTP 3077 AS-THEA 2(2,2)  
Scene Painting  PR: TTP 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.

TTP 3195 AS-THEA 3(3,0)  
Theatre Studio/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.

TTP 3197 AS-THEA 3(3,0)  
Summer Theatre Studio/Design  PR: Departmental consent. Production assignments and responsibilities during the rehearsals/performances of play scripts produced on the UCF mainstage. May be repeated for credit.

TTP 3216C AS-THEA 3(3,4)  
Stagecraft III  PR: TTP 2211, BFA Design/tech or Stage Management major. A continuation of TTP 2211 with emphasis on special projects.

TTP 3221 AS-THEA 3(2,2)  
Lighting Design  PR: TTP 2220 and TTP 3300. Restricted to B.F.A. Theatre majors or B.A. Theatre majors with departmental consent. Continuation of Stage TTP 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.

TTP 3320 AS-THEA 3(2,2)  
Costume Construction  PR: TTP 2210 or TTP 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.

TTP 3249 AS-THEA 3(2,2)  
Advanced Makeup Techniques  PR: TTP 2246C. 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.

TTP 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.

TTP 3251 AS-THEA 2(2,0)  
Advanced CADD for Theatre  PR: TTP 3250. Restricted to B.F.A. Theatre majors or Departmental consent. Continuation of TTP 3250 with special emphasis placed on 3-Dimensional aspects and applications of computer aided drafting and design for Theatre.

TTP 3260 AS-THEA 3(3,0)  
Sound Design For the Theatre  PR: THE 2020 or THE 2000. A continuation of TTP 3061 directed to Theatre majors or departmental consent. Exploration of the aesthetic and technological aspects of sound as they relate to the art and craft of theatre majors.

TTP 3401 AS-THEA 3(3,0)  
Theatre Careers for Management  PR: B.F.A. Theatre majors, Junior standing. Exploration and assimilation of successful management techniques needed to secure employment in Theatre or related segments of the entertainment industry.

TTP 3601 AS-THEA 3(3,0)  
Stage Management  PR: TTP 2210, TTP 3650, TTP 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 productions as well as professional union requirements. Required of all B.F.A. Stage Management majors.

TTP 4041C AS-THEA 3(2,2)  
Costume Design II  PR: TTP 3040. A continuation of Costume Design I. Costume Design including research, color, body types, and fabric to generate costume design sketches for theatrical production productions.

TTP 4293 AS-THEA 1(0,20)  

TTP 4294 AS-THEA 1(0,20)  
Theatre Production/Performance IV  PR: TTP 4293. Participation in UCF Theatre productions. Required of all B.A theatre majors. Not restricted to theatre majors, but requires departmental consent.

TTP 4295 AS-THEA 1(0,20)  
Theatre Production/Performance V  PR: TTP 4294. Participation in UCF Theatre productions. Required of all B.A theatre majors. Not restricted to theatre majors, but requires departmental consent.

TTP 4296 AS-THEA 1(0,20)  
Theatre Production/Performance VI  PR: TTP 4295. Restricted to Theatre majors or departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. Design/tech and Stage Management majors.

TTP 4297 AS-THEA 1(0,20)  
Theatre Production/Performance VII  PR: TTP 4286. Restricted to Theatre majors or departmental consent. Participation in UCF Theatre productions. Required of all B.F.A. Design/tech and Stage Management majors.

TTP 4298 AS-THEA 1(0,20)  

TTP 4400 AS-THEA 3(3,0)  
Theatre Management  PR: TTP 2211, TTP 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.

TTP 4602 AS-THEA 2(3,0)  

TTP 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. On-campus internship programs provide opportunity for practical work in professional theatre. Contact the Departmental office for specific requirements.

TTP 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 advanced study of Costume Design.

TTP 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.

TTP 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.

TTP 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.

TTP 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/performances as they relate to theatre organizations/institutions.

TTP 5946C 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.

TTP 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

TTP 1312C AS-THEA 3(2,15)  
Workshop Studio Theatre  PR: TPP 3172C, TPP 2211, TPP 3310C, TTP 3601, and a grade of “A” in TTP 4311. Restricted to Theatre majors or departmental consent. Exploring the various aspects of mounting a one-act play, including play analysis, research, staging techniques, and other areas of directing for advanced directors. May be repeated for
Practical acting technique for the performance of musical theatre repertoire with the interpretation of text and music.

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 3305, Junior standing, Theatre major. Principles and techniques of play direction to include script selection, directional analysis, casting, composition/visualization, blocking, tempo, and rehearsal planning.

TPP 3510C AS-THEA 2(2,1) Movement for the Actor PR: ADA 2200C, ADA 2200C, TPP 2110, TPP 2170C, B.F.A. 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 playscript as a blueprint for production. Required of all B.F.A. theatre majors.


TPP 3952 AS-THEA 3(3,0) Studio Production PR: TPP 3172C, or TPP 4142C or TPP 3258, B.F.A. Theatre Performance or Musical Theatre majors. Continuation of Voice Production III: the analysis and sounds of foreign dialects and regional accents; study of stage voice for age and character roles.


TPP 4195 AS-THEA 1(0,20) Theatre Production/Performance VI PR: TPP 4194. Participation in UCF Theatre productions. Required of all B.F.A. performance majors. Not restricted to Theatre majors but requires departmental consent.

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 I 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 IV PR: Theatre majors or departmental consent. TPP 3258. 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 2(2,2) Musical Theatre Voice III PR: Theatre majors or departmental consent. TPP 4258. 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/labatory designed to expose the student to practical techniques of television and film acting. Extensive studio work.

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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 when working on a TV/Film proj- ect.


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 intern- ship programs provide opportunity 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 I: PR: Admission to MFA Performance Program. An advanced scene study course with emphasis on scene analysis and character development and application of acting techniques in modern contemporary American plays.

TPP 5157C AS-THEA 3(2,2) Acting Studio II: PR: Grad Acting Studio I. An advanced scene study course applying acting methodologies to the works of modern (1950-) European playwrights with emphasis on the works of Ibsen/Chekhov/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 choreogra- phy; emphasizing developing skills in textual and musical interpretation.

TPP 5515 AS-THEA 2(2,0) Movement Studio I: PR: Admission to MFA Performance Program. A graduate level course in principles and methods of movement for the stage focusing on relaxation, centering, increased physical control, and physical development of a character.

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 comba- t.

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 pro- duction 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 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 stu- dents.

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 soft- ware 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 the teaching of ESOL.

TSL 5525 ED-TLP 3(3,0) ESOL Cultural Diversity: This course is designed to identify major cultural groups represented by the LEPC population in Florida schools and to understand their special needs.

TSL 5940 AS-LANG 3(3,0) Issues in TEFL: PR: C.I. Address issues specifically related to TEFL, such as materials adaptation, teaching in multi-level classrooms, learning styles, cultural issues, and curriculum syllabus design.


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 opera- tor and vehicle characteristics, and design for street capacity, signals, signs, and markings.

TTE 5700 ECS-CEE 3(3,0) Railroad Engineering: PR: TTE 4004 and C.I. The major technical factors in location, construction, main- tenance, and operation of railroad transportation sys- tems.

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 compo- nents; 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: 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 C.I. Introduces students to scholars and research 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 theo- rizing, 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 interdiscipli- nary approaches to gender and sexuality in contemp- orary 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 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, CI.  
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 enterocelous 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 4745C 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 4815 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 4881C 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 5081 AS-BIOL 1(1,0)  
**Applied Conservation Biology:** PR: C.I.  
Examination of issues surrounding care, maintenance and tracking animals in small populations.

ZOO 5083L 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

M.S.W. (Florida State University)

JACOBS, DIANE, M., Interim Chair of Department of Health Professions and Professor of Molecular and Microbiology (1994), A.B., Ph.D. (Harvard University)

JAEGER, SUZANNE, Assistant Professor of Humanities and Philosophy (2000), B.A., M.A., Ph.D. (York University)

JAMSHIDIAN, MORTAZA, Associate Professor of Statistics (1999), B.S., M.A., Ph.D. (University of California, Los Angeles)

JASINSKI, JANA H., Assistant Professor of Sociology (1990), B.A., M.A., Ph.D. (University of New Hampshire)


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JOHNSON, MICHAEL, Assistant Professor of Education (2002), B.A., M.S., Ph.D. (University of Illinois)

JOHNSON, MICHAEL D., Assistant Dean, College of Arts & Sciences, and Associate Professor of Physics (1990), B.S., Ph.D. (University of Virginia)

JOHNSON, RICHARD D., Assistant Professor of Management Information Systems (1999), B.S., B.M.A. (University of Maryland)

JOHNSON, ROGER W., Associate Professor of Engineering (1989), B.S., M.S., Ph.D. (University of California at Los Angeles), P.E. (Florida)

JOHNSTON, WALTER L., Associate Professor of Accounting (1979), B.S., M.B.A., Ph.D. (University of Texas at Austin)

JONES, DANIEL R., Professor of English (1984), B.A., M.A., Ph.D. (Florida State University)

JONES, DAVID E., Associate Professor of Anthropology (1972), B.A., M.A., Ph.D. (University of Oklahoma)

JONES, DONALD E., Assistant Professor of Philosophy (1993), B.A., M.A., Ph.D. (University of Oklahoma)

JONES, FOARD F., Chair and Associate Professor of Management (1993), B.S., M.B.A., Ph.D. (University of Georgia)

JONES, K. DAYLE, Assistant Professor of Education (1997), B.S., B.A., M.S., Ph.D. (University of South Carolina)

JONES, LESLIE, Visiting Assistant Professor of Education (2003), B.A., M.Ed., Ph.D. (University of North Texas)

JONES, LINWOOD W., Professor of Engineering (1997), Ph.D. (Virginia Polytechnic Institute)

JONES, ROBERT S., Associate Professor of Motion Picture Technology (1991), A.B., M.S., M.F.A. (University of California)

JONES, ROBERT L., Associate Professor of Mathematics (1990), B.S., M.S., Ph.D. (Western Reserve University)

JONES, TRACY R., Associate Director, Admissions and Registration/Office of Graduate Admissions and Student Services, (1995), B.A., M.A. (University of Central Florida)

JORDON, ARETI, Instructor of Marketing (1998), B.S., M.B.A. (University of Central Florida)
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