2007-2008
Undergraduate Catalog

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The UCF Creed

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

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

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

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

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

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

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

UCF Stands For Opportunity®
Dear UCF Students and Prospective Students:

Welcome to the University of Central Florida, the university that stands for opportunity. 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, truly standing for opportunity. In over forty years of service, we have risen from promise to prominence: our students excel in national competitions and organizations; members of our faculty are known internationally for their research and teaching; a number of our men's and women's athletic teams are conference champions; and our football team competes in Division I-A. We have much to be proud of.

You have my best wishes for success and my assurance that UCF faculty and staff are committed to helping you complete your degree so that you can join a proud group of over 148,000 alumni.

Cordially yours,

John C. Hitt
President
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UNIVERSITY ADMINISTRATION

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Director, Orientation Services .................................... Joe Ritchie
Director, Student Leadership Development ....................... Barbara Tullman
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Director, Southern Regional Office of the National Consortium for Academics and Sports ........................ Suzy Katz
Director, Sophomore and Senior Year Center ......................... Robert Snow
Director, Student Academic Resource Center ....................... TBA
Director, Student Disability Services ................................ Philip N. Kalin
Associate Vice President, Student Life Services ....................... Robert TAY
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Director, Student Union ............................................ Suzanne Halper
Director, Transfer and Transition Services .......................... Charlene Strnad

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Assistant Vice President for Research ............................... Tom O’Neal
Assistant Vice President for Research ............................... Pallavoor N. Vadayanathan
## SUMMER 2007 ACADEMIC CALENDAR

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<th>Session A</th>
<th>Session B</th>
<th>Session C</th>
<th>Session D</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 Weeks</td>
<td>6 Weeks</td>
<td>12 Weeks</td>
<td>9 Weeks</td>
<td></td>
</tr>
<tr>
<td>Application deadline for all New Undergraduate Freshmen Applicants and Transfers</td>
<td>March 1</td>
<td>March 1</td>
<td>March 1</td>
<td>March 1</td>
</tr>
<tr>
<td>Application deadlines for readmission</td>
<td>April 13</td>
<td>April 13</td>
<td>April 13</td>
<td>April 13</td>
</tr>
<tr>
<td>Graduation Application (Intent to Graduate form) due in college advising office</td>
<td>Mar. 5 - April 23</td>
<td>Mar. 5 - April 23</td>
<td>Mar. 5 - April 23</td>
<td>Mar. 5 - April 23</td>
</tr>
<tr>
<td>Registration for UCF Employees, State Employees, Non-degree, Transients and Audits (begins 3:00 p.m.)</td>
<td>May 11</td>
<td>June 22</td>
<td>May 11</td>
<td>May 11</td>
</tr>
<tr>
<td>Registration for Senior Citizen Audits, and STEP (begins 3:30 p.m.)</td>
<td>May 11</td>
<td>June 22</td>
<td>May 11</td>
<td>May 11</td>
</tr>
<tr>
<td>Residence halls open (1:00 p.m.)</td>
<td>May 12</td>
<td>June 23 (11:00 a.m.)</td>
<td>May 12</td>
<td>May 12</td>
</tr>
<tr>
<td>Classes begin</td>
<td>May 14</td>
<td>June 25</td>
<td>May 14</td>
<td>May 14</td>
</tr>
<tr>
<td>Late Registration and Add/Drop</td>
<td>May 14-18</td>
<td>June 25-29</td>
<td>May 14-18</td>
<td>May 14-18</td>
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<tr>
<td>Last day for full refund</td>
<td>May 18</td>
<td>June 29</td>
<td>May 18</td>
<td>May 18</td>
</tr>
<tr>
<td>Grade Forgiveness deadline</td>
<td>May 18</td>
<td>June 29</td>
<td>May 18</td>
<td>May 18</td>
</tr>
<tr>
<td>Payment Deadline</td>
<td>May 25, 2007 - Students registering from 3/26/07 through 5/18/07</td>
<td>July 6, 2007 - Students registering for Summer B only 5/19/07 through 6/29/07</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CLAST test (register by May 4)</td>
<td>June 2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Withdrawal deadline</td>
<td>June 1</td>
<td>July 13</td>
<td>June 22</td>
<td>June 15</td>
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<tr>
<td>VA deferral payment deadline</td>
<td>July 27</td>
<td>July 27</td>
<td>July 27</td>
<td>July 27</td>
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<tr>
<td>Classes end; last day to remove incomplete</td>
<td>June 22</td>
<td>August 3</td>
<td>August 3</td>
<td>July 13</td>
</tr>
<tr>
<td>Final Examination Period</td>
<td>Given during last class meeting</td>
<td></td>
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</tr>
<tr>
<td>Residence halls close (noon)</td>
<td>June 23</td>
<td>August 4</td>
<td>August 4</td>
<td>July 14</td>
</tr>
<tr>
<td>Grades due in Registrar's Office</td>
<td>June 27</td>
<td>August 8</td>
<td>August 8</td>
<td>July 18</td>
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<tr>
<td>Grades Available on myUCF (begins 9:00 a.m.)</td>
<td>June 28</td>
<td>August 10</td>
<td>August 10</td>
<td>July 19</td>
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<tr>
<td>Commencement</td>
<td>August 4</td>
<td>August 4</td>
<td>August 4</td>
<td>August 4</td>
</tr>
</tbody>
</table>

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

All undergraduate degree-seeking students are required to attend Orientation prior to registration. Information on Orientation is mailed to all students upon acceptance to the University. If possible, examinations should not be scheduled on days or during times of religious holidays. Students are expected to notify their instructor in advance if they intend to observe a holy day of their religious faith. For additional information, contact the Office of Diversity Initiatives (MOB 12) at 407-823-6479.

1 Ends at 5:00 p.m. on last day.
2 $100 Late Registration Fee applies to students who enroll following the close of Add/Drop or who enroll for the first time that term during Late Registration and Add/Drop. $100 Late Payment Fee applies to students who do not pay their fees or do not pay their fees by the due date.
3 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.”

### University Holidays and Special Events

<table>
<thead>
<tr>
<th>Holiday Type</th>
<th>Date</th>
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<td>Memorial Day Holiday</td>
<td>May 28, 2007</td>
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<tr>
<td>Independence Day Holiday</td>
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2007 - 2008 FALL/SPRING ACADEMIC CALENDAR

<table>
<thead>
<tr>
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<th>Spring 2008</th>
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<td>Application deadline for Graduate International students</td>
<td>Jan. 15</td>
<td>July 1, 2007</td>
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<td>Application deadline for Undergraduate International students</td>
<td>March 1</td>
<td>Sept. 1, 2007</td>
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<td>May 1</td>
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<tr>
<td>Application deadline for New Undergraduate Transfers</td>
<td>July 1</td>
<td>Nov. 1, 2007</td>
</tr>
<tr>
<td>Application deadlines for readmission</td>
<td>July 13</td>
<td>Nov. 15, 2007</td>
</tr>
<tr>
<td>Graduation Application (Intent to Graduate form) due in college advising office $^1$</td>
<td>Mar. 5 - Aug. 3</td>
<td>Oct. 15 - Dec. 3, 2007</td>
</tr>
<tr>
<td>Enrollment Appointments available on myUCF</td>
<td>Mar. 5</td>
<td>Oct. 8</td>
</tr>
<tr>
<td>Residence halls open</td>
<td>Aug. 16 (11:00 a.m.)</td>
<td>Jan. 4 (1:00 p.m.)</td>
</tr>
<tr>
<td>Registration time for State Employees, UCF Employees, Non-degree, Transients and Audits (begins 3:00 p.m.)</td>
<td>Aug. 17</td>
<td>Jan. 4</td>
</tr>
<tr>
<td>Registration for Senior Citizen Audits, and STEP (begins 3:30 p.m.)</td>
<td>Aug. 17</td>
<td>Jan. 4</td>
</tr>
<tr>
<td>Classes begin</td>
<td>Aug. 20</td>
<td>Jan. 7</td>
</tr>
<tr>
<td>Late Registration$^2$ and Add/Drop</td>
<td>Aug. 20-24</td>
<td>Jan. 7-11</td>
</tr>
<tr>
<td>Last day for full refund</td>
<td>Aug. 24</td>
<td>Jan. 11</td>
</tr>
<tr>
<td>Grade Forgiveness deadline$^1$</td>
<td>Aug. 24</td>
<td>Jan. 11</td>
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<tr>
<td>Payment deadline$^2$</td>
<td>Aug. 31</td>
<td>Jan. 18</td>
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<td>CLAST test (register by Sept. 7-Fall / Jan. 18-Spring)</td>
<td>Oct. 6</td>
<td>Feb. 16</td>
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<td>Oct. 12</td>
<td>Feb. 29</td>
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<tr>
<td>VA deferral payment deadline$^2$</td>
<td>Nov. 16</td>
<td>Apr. 4</td>
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<tr>
<td>Classes end; last day to remove incomplete$^3$</td>
<td>Dec. 3</td>
<td>Apr. 21</td>
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<tr>
<td>Final Examination Period</td>
<td>Dec. 4-10</td>
<td>Apr. 22-28</td>
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<td>Dec. 11</td>
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<td>Dec. 14-15</td>
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<td>Dec. 13</td>
<td>May 1</td>
</tr>
<tr>
<td>Grades Available on myUCF (begins 9:00 a.m.)</td>
<td>Dec. 15</td>
<td>May 3</td>
</tr>
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1 Ends at 5:00 p.m. on last day.
2 $100 Late Registration Fee applies to students who enroll following the close of Add/Drop or who enroll for the first time that term during Late Registration and Add/Drop.
3 Incomplete grades must be removed within one year of the award date prior to graduation from the University, whichever comes first, else they will change to “F.”

### University Holidays and Special Events

<table>
<thead>
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<th>Date</th>
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<td>Labor Day Holiday</td>
<td>Sep. 3, 2007</td>
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<td>Homecoming Week (classes still held)</td>
<td>Oct. 29 - Nov. 3, 2007</td>
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<td>Veteran’s Day Holiday</td>
<td>Nov. 12, 2007</td>
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<td>Thanksgiving Holiday</td>
<td>Nov. 22-24, 2007</td>
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<td>Martin Luther King Jr. Holiday</td>
<td>Jan. 21, 2008</td>
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<td>Spring Break</td>
<td>March 10-15, 2008</td>
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<tr>
<td>Founders Day Honors Convocation</td>
<td>April 2, 2008</td>
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<tr>
<td>(classes still held)</td>
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</tr>
</tbody>
</table>
 Administrative Procedures Act Policy Statement
The University of Central Florida, under applicable rules of the Administrative Procedures Act, may change any of the announcements, information, policies, rules, regulations, or procedures set forth in this Undergraduate Catalog. The Undergraduate Catalog is published once a year and cannot always reflect new and modified regulations. Statements in this Undergraduate Catalog may not be regarded in the nature of binding obligations on the institution or the State of Florida. While every effort will be made to accommodate the curricular needs of students, limited resources may prevent the University from offering all required courses in each semester or in day and evening sections.

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

Non-Discrimination Policy (including sexual harassment)
The University of Central Florida values diversity in the campus community. Accordingly, discrimination on the basis of race, sex, national origin, religion, age, disability, marital status, parental status, or veteran’s status is prohibited.

Sexual harassment, a form of sex discrimination, is defined as unwelcome sexual advances, requests for sexual favors, or verbal or physical conduct of a sexual nature when:
1. Submission to such conduct is made either explicitly or implicitly a term or condition of an individual’s employment or enrollment;
2. Submission to or rejection of such conduct by an individual is used as the basis for employment or enrollment decisions affecting such individual; or
3. Such conduct has the purpose or effect of substantially interfering with an individual’s work performance or enrollment, or creating an intimidating, hostile, or offensive working or academic environment.

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

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

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

Guidelines
The sale and service of alcoholic beverages to persons younger than 21 years of age is prohibited. Possession or consumption of alcoholic beverages is prohibited by persons younger than 21 years of age.

Possession and consumption of alcoholic beverages in open or unsealed containers is prohibited except in designated areas or as approved with special events.

Individuals are responsible for their actions regardless of their mental or physical state as it may be affected by mind-altering chemicals such as alcohol and other drugs.

Student organizations may develop more stringent regulations regarding alcohol use.

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

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

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

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

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


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

- Cheating, whereby non-permissible written, visual, or oral assistance including that obtained from another student is utilized on examinations, course assignments, or projects. The unauthorized possession or use of examination or course related material may also constitute cheating.
- Plagiarism, whereby another's work is deliberately used or appropriated without any indication of the source, thereby attempting to convey the impression that such work is the student's own. Any student failing to properly credit ideas or materials taken from another has plagiarized.
- Unauthorized assistance: communication to another through written, visual, or oral means. The presentation of material which has not been studied or learned, but rather was obtained solely through someone else's efforts and used as part of an examination, course assignment or project. The unauthorized possession or use of examination or course related material may also constitute cheating.
- Commercial Use of Academic Material: Selling notes, handouts, etc. without authorization or using them for any commercial purpose with- out the express written permission of the University and the Instructor is a violation of this rule.
Note: A student who has assisted another in any of the aforementioned breach of standards shall be considered equally culpable. In cases of cheating or plagiarism, the instructor may take appropriate academic action ranging from loss of credit for a specific assignment, examination, or project to removal from the course with a grade of "F." Additionally, the instructor may request disciplinary action through the Office of Student Rights and Responsibilities as outlined in The Golden Rule.

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

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

The University of Central Florida has developed one of the nation's most advanced campus technology environments, and all UCF students are provided free e-mail accounts and Internet access.

Students wishing to acquire a personal computer are strongly advised to consider a laptop equipped with a wireless network adapter. Recommended configurations can be found on the University's Web site at http://www.cstore.ucf.edu/info.php?name=PC_Standards.

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

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 online through the UCF portal at https://my.ucf.edu/.

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

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

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

The University of Central Florida is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (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:

<table>
<thead>
<tr>
<th>College/Discipline</th>
<th>Accrediting Body</th>
</tr>
</thead>
<tbody>
<tr>
<td>Arts and Humanities Music, Music Education</td>
<td>National Association of Schools of Music</td>
</tr>
<tr>
<td>Burnett College of Biomedical Sciences Medical Laboratory Sciences</td>
<td>National Accrediting Agency for Clinical Laboratory Sciences (NAACLS)</td>
</tr>
<tr>
<td>Business Administration (all disciplines)</td>
<td>The Association to Advance Collegiate Schools of Business (AACSB)</td>
</tr>
<tr>
<td>Engineering and Computer Science Aerospace, Civil, Computer, Electrical, Environmental, Industrial, and Mechanical Eng</td>
<td>Engineering Accreditation Commission (EAC) of the Accreditation Board for Engineering and Technology (ABET)</td>
</tr>
<tr>
<td>Computer Science</td>
<td>Computing Accreditation Commission (CAC) of ABET</td>
</tr>
<tr>
<td>Engineering Technology (Electrical Engineering Technology and Engineering Technology)</td>
<td>Technology Accreditation Commission (TAC) of the Accreditation Board for Engineering and Technology (ABET)</td>
</tr>
<tr>
<td>Health and Public Affairs Athletic Training</td>
<td>Committee on Accreditation of Athletic Training Education</td>
</tr>
<tr>
<td>Cardiopulmonary Science</td>
<td>Committee on Accreditation for Respiratory Care in conjunction with the Commission on Accreditation of Allied Health Education Programs (CAHME) of AMA</td>
</tr>
<tr>
<td>Health Information Management</td>
<td>Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM)</td>
</tr>
<tr>
<td>Radiologic Sciences</td>
<td>Joint Review Committee on Education in Radiologic Technology (JRCERT)</td>
</tr>
<tr>
<td>Social Work</td>
<td>Council on Social Work Education (CSWE)</td>
</tr>
<tr>
<td>Hospitality Management Hospitality Management</td>
<td>Accreditation Commission for Programs in Hospitality Administration</td>
</tr>
<tr>
<td>Nursing Nursing</td>
<td>Commission on Collegiate Nursing Education (CCNE), Florida Board of Nursing</td>
</tr>
<tr>
<td>Sciences Chemistry</td>
<td>American Chemical Society (ACS) Committee On Professional Training</td>
</tr>
</tbody>
</table>

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

UNIVERSITY OF CENTRAL FLORIDA

RESOURCES & DEPARTMENTS

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The University
The University of Central Florida is one of the most dynamic universities in the country. Offering more than 200 degree programs, it has become an academic and research leader in numerous fields, such as optics, modeling and simulation, engineering and computer science, business administration, education, the sciences, medicine, hospitality management and digital media.

UCF’s 1,415-acre main campus provides modern facilities with 600 acres set aside for lakes, woods and an arboretum. UCF now has 12 colleges, including the new College of Medicine and the new College of Nursing. Nearly 47,000 students attend classes on UCF’s main campus and its 12 regional campuses located throughout Central Florida.

The incoming freshmen class for the academic year 2006-07 of 4,133 students continues UCF’s rise in academics with an average SAT score of 1200 and high school grade-point average of 3.7. The Burnett Honors College incoming class has an average SAT score of 1352 and a grade-point average of 4.1. First Time In College students include 27 National Merit Scholars, 115 AP Scholars and eight National Hispanic Scholars.

The UCF Libraries offer more than 1.7 million volumes, nearly 16,368 periodical subscriptions and 9,855 electronic journals.

UCF has an 85,000-foot Recreation and Wellness Center complete with a three-story climbing wall, an indoor track and fitness equipment. The Student Union has computer labs, study lounges, meeting rooms, eating establishments and a shopping mall. A Health Center is a full-service health clinic with on-site professionals, X-ray capabilities, a pharmacy, a medical laboratory and physical therapy services. A 10,000-seat Convocation Center and a 45,000-seat on-campus football stadium are scheduled to open in Fall 2007. Housing includes on-campus and affiliated apartments for 10,000 students.

UCF promotes a diverse and inclusive environment. UCF students come from every Florida county, 50 states and 126 countries. Study abroad programs allow UCF students to study and conduct research with 98 institutions in 36 countries.

In 2005-06, UCF professors received more than $100 million in research funding for the second consecutive year. Undergraduate Research offers seven different research programs, including paid research positions for undergraduates and graduate students.

Online@UCF, The Virtual Campus
http://online.ucf.edu

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

Online courses are identified in the online Class Schedule Search (https://my.ucf.edu). Select the Advanced Search dialog and use the drop-down list next to the Mode of Instruction to search for the descriptive value of “World Wide Web (W).” Complete listings of all fully and partially Web-based classes from the class schedule are also excerpted and available on the Virtual Campus Web site at http://online.ucf.edu. Web-related instruction modes are:

MIXED-MODE/REDUCED SEAT TIME (M): These courses include electronic media-based instruction that substitutes for some classroom time (reduced seat time).

WORLD WIDE WEB (W): These courses are delivered entirely over the Internet. They may require proctored examinations and may include opportunities for face-to-face orientations, but there will be no class attendance requirements.

These types of courses will require access to the Internet, Web-browsing knowledge, ability to use email, and basic computer skills such as word processing. Students can also expect to encounter similar Internet requirements in any course offered by UCF, regardless of the specified instruction mode. For information about degree and certificate programs available online, visit http://online.ucf.edu, or write to online@ucf.edu.

Center for Distributed Learning
3100 Technology Parkway
Orlando, 32826
Director: Randall Upchurch; 407-823-4910; rupcharc@mail.ucf.edu

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

Regional Campuses
http://www.regionalcampuses.ucf.edu

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

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

The Central Florida Higher Education Consortium, known as DirectConnect to UCF, is a unique partnership between Brevard Community College, Lake Sumter Community College, Seminole Community College and Valencia Community College and UCF. This agreement provides entry to AA and AS graduates to UCF as an enhancement to the FL state-mandated 2 + 2 agreement. Students entering UCF as a DirectConnect to UCF student are admitted according the UCF policies when AA or AS degrees are awarded.

All locations provide students with an opportunity to enroll in selected courses (junior and senior level) contributing to undergraduate and graduate degrees in a variety of disciplines within the university. As a UCF student, students may register full time or part time for courses at any of the locations without additional paperwork. For the most current information on any of the multiple UCF Regional Campus locations, programs or class schedules, check the website at http://www.regionalcampuses.ucf.edu.
Central Region
(UCF Downtown, UCF West Orlando, UCF South Orlando, UCF Osceola)
Director, Academic Support Services ................. Edgar Martinez
Assistant Director, Academic Support Services .......... Jim Weaver

Eastern Region
(UCF Daytona Beach, UCF Heathrow, UCF Sanford/Lake Mary)
Director, Daytona Beach Campus ...................... Linda Bradley
Assoc. Director, Academic Support Services ........... Tena Harris
Director, RC Student Services ......................... Diana Weidman
Assistant Director, Enrollment Services ............... Raphel Robinson
Senior Admissions Registrar ......................... Sheri Newble-Dunn
Coordinator, Financial Aid ........................... Heidi Shaw
Coordinator, Academic Support Services .......... Leeann Davis
Coordinator, Academic Support Services ........... Darryl Greely
Coordinator, Computer Technology ................ Jason Mayer
Assoc. VP and Director, UCF Heathrow and Sanford/Lake Mary ............ David Mealer
Assoc. Director, Academic Support Services ........... Sean Armstrong, Jr.
Coordinator, Academic Support Services ............... Cynthia Thomas

Southern Region
(UCF Cocoa, UCF Palm Bay)
Assoc. VP, Academic Affairs and Interim Campus Director, Cocoa/Palm Bay .......................... Denise Young
Director, Academic Support Services .................. Lauren Miller
Assistant Director, UCF Palm Bay ....................... Linda Puritz
Director, RC Student Services ......................... Terry Exum
Coordinator, RC Student Services ................... James C. Smith, Jr.
Assistant Director, Enrollment Services .......... Randi Robinson
Coordinator, Academic Support Services ........... Nick Pantoini
Coordinator, Academic Support Services ........... Angel Edgecombe
Coordinator, Academic Support Services ........... Angie Jones
Coordinator, Academic Support Services .............. John King
Coordinator, Academic Support Services ............. Sheryl Schagen
Coordinator, Computer Technology ................ Mei Wang

Western Region
(UCF South Lake, UCF Ocala)
Assistant Vice President, Academic Affairs ................... Cecelia Rivers
Interim Assoc. Director, Academic Support Services .......... Tanya Armstrong
Director, RC Student Services ......................... Pamela Brady
Assistant Director, RC Enrollment Services ........... Christy Parsin
Coordinator, RC Enrollment Services ................. Keicia Osbourne
Coordinator, RC Enrollment Services ................. (Financial Aid) Shelle Thomas-Small
Coordinator, Academic Support Services .............. Selena Forrester
Coordinator, Academic Support Services .............. TBA
Coordinator, Academic Support Services .............. Robin Tinsley
Coordinator, Computer Technology ................... Mei Wang

UCF Cocoa
(321) 433-7821
(In partnership with Brevard Community College)
Undergraduate Degree Programs
Applied Science (Industrial Operations, or Supervision & Administration Track) (B.A.S.) Office of Interdisciplinary Studies
Business Administration (B.A.) College of Business Administration
Engineering Technology – Operations (B.S.E.T.) College of Engineering and Computer Science

Undergraduate Minors
Anthropology in Multicultural Studies
Business (For non-business majors only)

Graduate Degree Programs
Clinical Psychology (M.A.) College of Sciences
Criminal Justice (M.S.) College of Health and Public Affairs
Health Sciences: Health Services Administration (M.S.) College of Health and Public Affairs

UCF Daytona Beach
(386) 506-4021
(In partnership with Daytona Beach Community College)
Undergraduate Degree Programs
Applied Science (Supervision & Administration Track) (B.A.S.) Office of Interdisciplinary Studies
Business Administration (B.A.B.A.) College of Business Administration

Undergraduate Minor
Anthropology in Multicultural Studies

Graduate Degree Programs
Clinical Psychology (M.A.) College of Sciences
RESOURCES & DEPARTMENTS

Sociology
Social Sciences – Interdisciplinary
Psychology
Political Science
History
Health Services Administration
English – Writing

Undergraduate Minors

*Admission by cohort only. Please see adviser for further information.

Psychology (B.S.)
Exceptional Student Education (B.S.)*

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UNIVERSITY OF CENTRAL FLORIDA 2007-2008 Undergraduate Catalog
UCF South Orlando
(407) 856-6585
3700 Lake Ellenor Drive, Orlando, FL 32809
This location provides course work (junior and senior level) contributing to undergraduate degrees. Please check the schedule for course offerings.

UCF West Orlando
(407) 582-5500
(In partnership with Valencia Community College)

Undergraduate Degree Programs
Applied Science (B.A.S.) Office of Interdisciplinary Studies
Business Administration (B.A.) College of Business Administration
Electrical Engineering (third year) (B.S.E.E.) College of Engineering and Computer Science
Interdisciplinary Studies (B.A.) (Very limited in scope. Please see an advisor.) Office of Interdisciplinary Studies
Psychology (B.S.) College of Sciences

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

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

The objectives of the Central Florida Research Park are in keeping with the legislative action that enabled its creation “to encourage and promote the establishment of research and development 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.

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

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

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

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

The Cobb Family Endowed Chair in Optical Sciences and Engineering: Created in 1986 to support the work of an internationally recognized scholar in laser and optical sciences. Chair: George I. A. Stegeman.

Darden Eminent Scholar Chair in Restaurant Management: Created in 1986 to develop a program of excellence in restaurant management. This chair, the first of its kind in the country, also serves as a critical resource for the hospitality industry. Chair: William Fisher.

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

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

Bert Fish Memorial Eminent Scholar Chair: Created in 1999 to establish a endowed chair in nursing for five-year period 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.


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

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. Chair: TBA.

Mildred W. Coyle Eminent Scholar Chair: Created in 2000 to support the teaching and research of an internationally recognized scholar in various disciplines of professional education. Chair: TBA.

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

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

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

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

Lucent Corporation Chair in Computer Science: Created in 2005 in recognition of the university’s leadership in the Florida High Tech Corridor and the FHTC Council’s objective of attracting, retaining, and growing tech-based industry in our region and in the preparation of the workforce needed for our region. Chair: Mubarak A. Shah.

Beat M. and Jill L. Kahl Eminent Chair in Oncology Nursing: Created in 2005 to support work with researchers and clinicians in helping to improve the lives of cancer survivors. Chair: Karen Dow.

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

Kay Marcia Dixon Eminent Scholar Endowed Chair in Accounting: Created in 2004 as a key component of the Dixon School of Accounting. Chair: TBA.

Howard Phillips Chair in Real Estate: Created in 2005, as a key component of the Phillips School of Real Estate. Chair: TBA.
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 Ombuds Officer is a neutral facilitator, and will listen to concerns, help individuals explore options, offer suggestion and advice, and assist in the resolution of the concern. Referral and direction to appropriate individuals and offices, and clarification of University policies and procedures are services of the office. All proceedings in individual cases will be held confidential by the Ombuds Officer unless otherwise authorized by the complainant, or otherwise required by applicable law, including without limitation, Chapter 119, Florida Statutes. The University Ombuds Office is located in Millican Hall, Suite 243, room 247. Appointments may be made by calling 407-823-6440.

Office of Undergraduate Studies

Interim Dean: Alison Morrison-Shetlar; CL1 207B; 407-823-3544

The Office of Undergraduate Studies supports the colleges in their curricular planning, collaborates with faculty curricular oversight, works with faculty and administrators to assure the strength of university wide programs such as general education, and advocates for an undergraduate education that offers an outstanding learning experience to UCF students. Interdisciplinary academic programs such as the Bachelor of Applied Sciences and the Interdisciplinary Studies Program are part of this office as is the Office of Academic Services. Also reporting to the Dean of Undergraduate studies are the Division of Continuing Education, the Office of Experiential Learning, the Faculty Center for Teaching and Learning, the Office of McNair and RAMP Scholars Programs, the Office of Undergraduate Research, and the Coordinator of Special Undergraduate Programs. The Dean serves as the final appeal for all undergraduate academic appeals.

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

International Services Center

Director: Nataly Chandia; CMMS (Building #81); 407-823-2337

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

UCF Public Safety and Police

Interim Chief: Michael Zelenes; Building #49; 407-823-5555

The UCF Police Department is a full-service law enforcement agency which prides itself on providing professional services to the university community through prevention, education and enforcement. The University Police officers provide police services twenty-four hours a day, seven days a week to the university community. The Communications Center provides a mechanism for persons to receive assistance in the event of an immediate threat, danger, injury, fire, or criminal occurrence by calling 9-1-1. University Police are part of the county-wide “Enhanced 9-1-1” system and automatically receive calls related to campus. The system ensures that the correct emergency responder - police, medical or fire - is directed to the right place in the shortest amount of time. Since telephone numbers appear on the police computer screen, callers who are either too young or too incapacitated to give their name or location can still receive emergency assistance. Communications Operators are on line 24 hours a day. Blue light emergency phones are located at various locations on campus to allow persons in need to assist to contact the Police Department. All Blue Light Emergency phones dial into the Communications Center to ensure a swift response if needed.

The University Police Department publishes an annual brochure entitled “Knight’s Safety Guide”. The Knight’s Safety Guide presents an overview of all police services and offers crime prevention safety tips and campus crime statistics in compliance with the Federal Crime Awareness and Security Act of 1990. A copy of the Knights Safety Guide is available at the Undergraduate Admissions Office, Human Resources Office, and the University Police Department. A copy is mailed each year to students and faculty. For further information visit the University Police website at http://www.police.ucf.edu.

Information Technologies and Resources

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

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

University Libraries

Director of University Libraries: Barry B. Baker; LIB 512; 407-823-2564
http://library.ucf.edu

Associate Director for Administrative Services: Frank R. Allen; LIB 512; 407-823-2564
Associate Director for Public Services: Margaret K. Schaf; LIB 512; 407-823-2564
Associate Director for Collections and Technical Services: Jeannette A. Ward; LIB 502; 407-823-2575
Assistant Director for Systems and Technology: Barry B. Baker; LIB 512; 407-823-5444


University Libraries offers a variety of information resources and services. An extensive print resource collection includes 1.6 million volumes, 16,400 journal subscriptions, 2.9 million microforms and 43,000 media
Library's web-based catalog can be accessed from any public or home PC, and also offers a gateway to hundreds of electronic databases, catalogs of other state university libraries and the community college system libraries. For help and advice in the use of the Library and its materials, the Reference Desk is open during most library hours. Librarians are on duty for assistance with selection and use of online and traditional resources, and individual appointments can be made for in-depth research consultation. The web site http://library.ucf.edu/ill/ connects students with Ask a Librarian, where questions are submitted and answered by email, or by telephone at (407) 823-2562, or toll-free at (866) 271-7589.

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

Services are provided for persons with disabilities. By using the Library catalog students can determine the availability of needed books and telephone the Library to request that books and other print materials be retrieved from the shelves and held for them at the circulation desk. A workstation equipped with Jaws and Zoomtext software is available, as well as a Kurzweil reading machine. In collaboration with the University's Office of Student Disability Services, the Florida Bureau of Blind Services, the library staff will assist students in the use of equipment and software needed to use library resources. For more information go to http://library.ucf.edu/Services/DisabilityServices.asp.

Primary source material from Special Collections and the University Archives http://library.ucf.edu/SpecialCollections/ supports the research, teaching, and service of the UCF community. These special materials cannot be easily replaced, include but are not limited to books, manuscripts, historic public records, ephemera, photographs, and art. The Libraries' digitization projects http://library.ucf.edu/Systems/DigitalCollections/ continue to make more of these exciting and unique materials available on the World Wide Web. The Library also partners with other university libraries and local institutions in Central Florida Memory, Florida Heritage, and similar projects to provide digital access to special and historic images and documents.

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

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

Regional Libraries collections and services are available at the Brevard Community College Joint-Use Libraries in Cocoa and production, digital media, web casting, video streaming, video over IP, interactive video course delivery, video production, audio production, digital photography, graphics, ETD software training and support for graduate students, and a full range of multimedia classroom support services. OIR manages UCF's interactive video network, which includes eight origination rooms on the Orlando campus and sixteen receive rooms at regional campus locations. OIR's facilities include the Digital Image Processing Lab (DIPL), located in the Research Pavilion (Suite 169) in the Central Florida Research Park. In association with its community partners, DIPL offers UCF faculty access to state-of-the-art digital imaging technologies including digital-image processing, digital document scanning, and CD-ROM production. OIR's Faculty Multimedia Center (CL1 202) provides multimedia production and training resources for faculty using Macintosh and Windows personal computer systems. OIR's Interactive Video Classroom (CL1 320) is used for videoconferencing and ITV course origination. The room also provides faculty with an excellent location for training in ITV production and delivery skills. OIR also supports more than 340 advanced multimedia classrooms and eight interactive video origination classrooms located throughout the campus and our Regional Campus locations. Approximately 95% of all classrooms at UCF are multimedia equipped.

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

Course Development and Web Services

Director: Barbara Truman; LIB 107; 407-823-3718
http://cdws.ucf.edu

Course Development and Web Services (CDWS) is responsible for supporting UCF's institutionally-sponsored online programs such as online learning (http://online.ucf.edu), the main Web site (http://www.ucf.edu), myUCF portal (http://my.ucf.edu), and enterprise applications such as AskUCF (http://ask.ucf.edu), and eCommunity (http://ecommunity.ucf.edu). CDWS also conducts faculty development for initiatives identified as priorities for support through an institutional planning process. Examples of faculty development include IDL6543 (http://reach.ucf.edu/~id6543), ADL5000 (http://reach.ucf.edu/~ad5000), and Essentials (http://reach.ucf.edu/~essentials). CDWS offers support for students taking online courses through the Learning Online Web site (http://cdn.ucf.edu), and offers support for faculty through the Teaching Online Web site.

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

Intercollegiate Athletics

Director: Keith Tribble; WD2; 407-823-2261
http://www athletics.ucf.edu

Programs in Intercollegiate Athletics are coordinated by coaches and staff of the UCF Athletics Association, Inc. under the general supervision of the Director of Athletics, who reports to the president. The University of Central Florida is a member of the National Collegiate Athletic Association (NCAA), Division I. Competes in all sports (except women’s rowing) in Conference USA. 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 are: men include baseball, basketball, cross-country, golf, football, soccer, tennis. Women’s sports include basketball, cross-country, golf, rowing, soccer, softball, outdoor and indoor track and field, tennis, and volleyball.
The Orlando Shakespeare Theater
- in partnership with UCF
http://www.shakespearefest.org

The Orlando Shakespeare Theater is Central Florida's classical theater, presenting professional artists in a variety of world-class plays. An AEA union company, the theater presents a six play signature series of Shakespeare and other plays; a three play theater for young audiences series; The Harriet Lake Festival of New Plays; and innovative educational programming that includes “The Young Company”, “Shakespeare Alive”, and Shakesperience”. Performances are presented at three theaters in the Lowndes Shakespeare Center in Loch Haven Park and in the amphitheater at Orlando’s Lake Eola Park.

In its nineteenth season, the theater has achieved a position of national recognition, attracting artists from across the country. The theater has been featured in such national publications as The New York Times, Southern Living, Theater Week, Backstage and Southern Theater. The third year of UCF’s Acting MFA in Theatre is spent in residence at the theater. Internships and independent studies for UCF students and alumni are available with the theater in many departments. For more information, contact Artistic Director, Jim Helsinger, 812 E. Rollins St., Suite 100, Orlando FL 32803, 407/447-1700.

UCF Foundation, Incorporated
The UCF Foundation, Incorporated is a non-profit, tax-exempt corporation directed by a 44 member community-based Board of Directors that encourages, solicits, receives, and administers private gifts and bequests of property and funds for scientific, educational, and charitable purposes. All gifts to UCF are received and processed through the UCF Foundation for support of the University. Call 407-882-1220 for additional information.
Television Services serves as a strategic integrated communication vehicle through its video production, television program development, and distribution services units. Video production and distribution capabilities include studio and on-location video production, editing, plus fiber and satellite uplink services. Through strategic community partnerships with WBCC-TV and the UCF Digital TV Channel 68.2, local county government cable channels, and WMFE-TV, viewers in the Central Florida region are able to watch Television Services programs via antenna, cable and satellite TV. Internet distribution expands our reach across the globe.

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

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

The office administers several programs for prospective students and parents, including daily tours and information sessions, open house events, area receptions, and high school and community college visits by the admissions staff. We also provide students with the opportunity to meet one-on-one with an 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.

Student Financial Assistance
Executive Director: Mary H. McKinney, MH 120; 407-823-2827
http://finaid.ucf.edu

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

Student Outreach Programs
Interim Director: Ana Marrero-Lopez; Orlando Tech Center, 12443 Research Parkway, Suite 600, Orlando 32826; 407-823-5580
http://www.reachout.sdes.ucf.edu

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

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

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

Vice President for Student Development and Enrollment Services:
Maribeth Ehasz; MH 282; 407-823-4372
http://www.sdes.ucf.edu

Introduction

The Division of Student Development and Enrollment Services (SDES) is responsible for the administration and management of programs, services, facilities and activities designed to support student learning both inside and outside the classroom.

The SDES Vision is: “Building collaborative partnerships that empower students to succeed!”

Student Development and Enrollment Services, in collaboration with university and community partners, empowers students to succeed by providing opportunities and support to develop integrity, scholarship, community, creativity and excellence. These values of “The UCF Creed” guide our conduct, performance and decisions.

Goals of the division are to: Promote progression to graduation, graduate school and productive employment; Create opportunities for students to strengthen life skills and develop purpose, integrity, ethical standards and civic responsibility; and Embrace diversity and foster engagement in the global community.

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

Academic Development and Retention

Associate Vice President: Mark Allen Poisel; MH 282; (407) 823-4625
http://www.adr.sdes.ucf.edu

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

Academic Services for Student-Athletes (ASSA)

Director: Mark Gumble; WDSC 104, SABRE Centre; 407-823-5895
http://www.assa.sdes.ucf.edu

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

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

National Consortium for Academics and Sports (NCAS)

Director: Suzi Katz; WD1 103A; 407-823-5243
http://www.ncasse.org

The mission of the Southeast Regional Office of the National Consortium for Academics and Sports (NCAS) 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. The NCAS reaches this goal in the Central Florida community and in southeast region by making programs avail-
able in the areas of diversity training, gender violence prevention and alcohol education. The NCAS also cultivates 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 http://www.ncassee.org.

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

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

Academic Exploration Program (AEP)
407-823-3789; PH 116
http://aep.sdes.ucf.edu

The Academic Exploration Program has been developed to provide structured experiences to assist students who have not declared a major. Students are provided major exploration and career development connections as primary advising initiatives so they can assess, explore, plan, and choose their major (Undeclared students) are provided focused advising support and outreach programming. For more information, visit the AEP website at http://aep.sdes.ucf.edu.

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

UCF recognizes that starting in a new learning environment can present many challenging life transitions for incoming freshmen students. First Year Advising and Exploration has been established to prepare and advise first-time-in-college students (not assigned to other first year advising offices). The overriding mission of the office is to assist first-year students by providing numerous academic advising support services and other programs that will lead to their overall satisfaction, success and retention at UCF. Students who have not selected a major (Undeclared students) are provided focused advising support services through the Academic Exploration Program to assist them in the major selection process. To fulfill this mission, each student is assigned a specific academic advisor who connects with the student through various activities such as orientation, individual appointments, outreach programs, email and phone communication, and small group advising sessions. The office focuses its efforts on providing proactive academic advising support, establishing early and regular communication, and providing outreach advising activities for first year students residing in both on- and off-campus facilities. FYAE also offers academic advising at satellite offices located in the Pegasus Landing and Pegasus Pointe affiliated housing areas. In addition, high school students admitted to UCF as part of the Early Admission or Dual Enrollment programs are advised through First Year Advising and Exploration. For further information, visit Howard Phillips Hall, room 116, or the FYAE website at http://firstyear.sdes.ucf.edu.

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

The Office of Multicultural Academic and Support Services provides comprehensive academic support, cultural enrichment, consultation, and referral services that promote the recruitment, admission, retention, and graduation of multicultural and First Generation College 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 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 and First Generation College Students at UCF.

Sophomore and Second Year Center
Director: Robert Snow, PH 221; 407-823-3375
http://www.sophomore.sdes.ucf.edu

The Sophomore and Second Year Center has been developed to guide students toward declaration of a major, retention to the next year, and eventual graduation from the University of Central Florida. The center has primary responsibility for connecting sophomores and second year students to campus resources, academic advising, career development, academic support services, and transition assistance to the appropriate college advising office or department. The center also provides advising support to undeclared (no major) students after their first year at UCF; accelerated FTIC’s (first time in college students entering UCF with 45 or more college credits earned from AP, IB, CLEP, and/or dual enrollment courses); and sophomores and second year freshmen who are changing their majors or need assistance in transitioning to the appropriate college advising support office. For additional information on the Sophomore and Second Year Center, please visit the center in Howard Phillips Hall room 221, or call at 407-823-3375.

Student Academic Resource Center (SARC)
Director: TBA; PH 113; 407-823-5130
http://www.sarc.sdes.ucf.edu

The Student Academic Resource Center provides high-quality programs and services that enable UCF students to achieve their academic goals. Programs include: Supplemental Instruction, tutoring, academic advising, and academic success workshops. The Supplemental Instruction (SI) program focuses on providing assistance to students in historically difficult courses such as anatomy, biology, chemistry, microbiology, molecular biology, and physics. These peer-led study sessions give students in these courses an opportunity to meet outside of class to compare notes, discuss important concepts, and develop strategies on how to learn the subject matter.

Free peer tutoring is also available for many UCF subject areas, such as accounting, physics, statistics, chemistry, economics, and biology, to name a few. In total, SARC provides individual and group tutoring for more than 25 courses.

Each semester, SARC also offers a series of academic success workshops designed to address common student issues. Among these are test-taking strategies, time management, reading effectiveness, and memory improvement. Additionally, preparatory workshops are offered for the math portions of the College Level Academic Skills Test (CLAST) and General Knowledge exam. Computer-assisted learning programs are also available for the GRE, GMAT, and CLAST exams. SARC’s professional academic advisors provide support for students in the Pegasus Success Program, the College Achievement Program (CAP) and the Supporting Teacher Education Pre-professionals (STEP) Program.

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

University Testing Center (UTC)
Assistant Director: Rebecca Piety; PH 106; 407-823-5109
http://www.testing.sdes.ucf.edu

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

- College Level Examination Program (CLEP)
- Law School Admissions Test (LSAT)
- Test of English as a Foreign Language, Internet-based Test (TOEFL iBT)

For additional information, visit the following website: http://www.testing.sdes.ucf.edu.
Transfer and Transition Services
Director: Charlene A. Stinard; PH 221; 407-823-2231
http://transfer.sdes.ucf.edu
The Office of Transfer and Transition Services has been organized to help transfer students make a seamless transition so that they have a more successful experience at the University of Central Florida. The office provides the following resources and services:
- General advising and referral for transfer students before and after they enroll at UCF;
- Advising for transfer students who are undeclared majors, undeclared minors, or changing majors;
- Current information about university programs and policies including entrance and exit requirements;
- Assistance in resolving issues once students have transferred;
- Transition advising services for currently enrolled juniors and seniors who are undeclared or changing majors;
- Peer Mentors provide transfer advising services;
- Written articulation agreements and inter-institutional relationships between the University of Central Florida and secondary schools, community colleges or universities;
- Articulation workshops and conferences involving instructional, advising, and administrative personnel from the university, community colleges, and other institutions;
For more information, visit the Transfer and Transition Services website at http://transfer.sdes.ucf.edu.

Orientation Services
Director: Joe Ritchie; PH 218; 407-823-5105
http://www.orientation.sdes.ucf.edu
The orientation program (combining pre-enrollment orientation with extended first year transition programs for academic credit) assists entering freshmen and transfer students with their transition to the University of Central Florida by providing information about student services, campus life, academic support, academic advising, and registration. Every freshman and transfer student is required to attend an orientation session prior to registering for classes. Students register for the program and get further information by visiting the Orientation Services website at http://www.orientation.sdes.ucf.edu.

Career Services & Experiential Learning (CSEL)
Executive Director: Melanie Parker; FC 185; 407-823-2361
(Career Services), 407-823-2667 (Experiential Learning)
http://www.csel.ucf.edu
Career Services & Experiential Learning (CSEL) offers a comprehensive range of services to help UCF students of any major reach their academic and career goals with a talented staff of career and experiential learning specialists. These comprehensive services are designed to help First Year through Graduate students with all phases of career development and applied learning experiences to include:
- Major and Career Choices
- Academic and Career Information
- Experiential Learning Opportunities (Co-op, Internships, Service Learning)
- Resumes and Cover Letters
- Interviewing Skills
- Job Search Strategies
- Employment Assistance (Career Fairs, On-Campus Recruiting, Job Postings and Resume Referrals)
- Graduate School Information
These programs and services are available through walk-in assistance, scheduled appointments, workshops, and major events.

Counseling Center
Director: David L. Wallace; COUN; 407-823-2811
http://www.counseling.sdes.ucf.edu
The Counseling Center serves UCF enrolled students who seek assistance with developmental and mental-health related concerns and the broader campus community by offering a wide variety of programs in direct support of the university mission. The Center is composed of a professional staff of licensed (or license-eligible) psychologists, mental health counselors and social workers who provide a confidential atmosphere and a safe environment in which students may explore and resolve issues of concern. The Center also provides advanced training and supervision for graduate students in counseling. The Center is open Monday through Friday. Services offered by the Center include:
- Short-Term Individual Counseling
- Group Counseling and Workshops
- Crisis Intervention
- Couples Counseling
- Professional Consultation
- Outreach and Presentations
- Referral
For additional information, visit the Counseling Center website at http://www.counseling.sdes.ucf.edu.

Registrar’s Office
University Registrar: Dennis J. Dulniak; MH 161; 407-823-3100;
Registration HelpLine: 407-823-5533; E-mail: registrar@mail.ucf.edu
http://www.registrar.ucf.edu
The Registrar’s Office, with a commitment to quality service and leading edge technology, provides timely and accurate enrollment information and access for students, colleges and departments, effectively meets student administrative needs, ensures complete records management through registration graduation and archived data stores. The office maintains the integrity of student permanent academic records and coordinates and enforces University policies and procedures campus-wide through cooperation, communication, and leadership. In addition, the Registrar’s Office is responsible for management and publication of course offerings, the Undergraduate Catalog online Web Enrollment Guide, the efficient utilization of classroom resources, residency reclassifications, student veteran services, and Commencements.

Veteran Services
Assistant University Registrar: H. Lee Parker; MH 161;
407-823-2707
http://www.va.ucf.edu
Veteran Services serves all veteran students and eligible dependents who are using VA educational benefits to further their education. The office provides information concerning entitlements, filing claims to the Department of Veterans Affairs (DVA), certifying enrollment at the University, and deferring tuition and fee payments. The office also provides related counseling for personal and academic concerns and referral to various community agencies. Veterans and eligible dependents must be certified through Veteran Services each term to receive VA educational benefits. The office monitors the academic progress of all those receiving VA educational benefits. All veterans and eligible dependents are urged to consult Veteran Services early in the UCF admissions process.

Students eligible for VA educational benefits must certify each term with Veteran Services after they enroll for classes. To maintain eligibility for VA education benefits, students must adhere to the policies and procedures VA educational benefits. A copy of the “Student Veteran Handbook” can be obtained on the GI Bill website.

UCF, being a member of SOC (Service Members Opportunity College) provides credit for military training and education. Credit is awarded for regionally accredited schools and courses only. Transfer credit is not awarded for experience, military skills level and/or special certifications. Transfer credit is awarded per the recommendations of the American Council on Education (ACE) Guide, based upon courses and/or training listed on the DD Form 214, SMARTS, ARTS, or other official military record. U.S. Air Force veterans must coordinate with the Community College of the Air Force to provide official CCAF transcripts to the Undergraduate Admissions Office.

Students eligible for VA educational benefits may also be eligible for a VA deferral of tuition and fees. The VA Deferment due date is contained in the “Academic Calendar.” Students eligible for financial aid adequate to cover tuition and fees are not eligible for this deferment.

For Fall and Spring semesters, undergraduates must carry at least 12 credit hours for full-time VA benefits, 9-11 credit hours for three-quarter time benefits, and 6-8 credit hours for half-time benefits. Five credit hours or less will be reimbursed at the cost of tuition and fees or quarter-time depending on VA Chapter. Check Veterans Services website for Summer term course load and other FAQs.

Students currently enrolled at UCF and another institution may receive VA educational benefits, but first must complete the appropriate Transient Form and consult with Veterans Services. Veterans and eligible dependents who desire to change their major, or pursue a dual major, dual degree, or who add a minor may receive VA educational benefits but must obtain approval from DVA before taking any of the applicable courses. This includes a minor in military science. NOTE:
some majors may have extra elective hours that can be used for courses for a minor or another major. To continue to be able to receive VA educational benefits, students must maintain satisfactory academic progress and conduct. Accordingly benefits will be terminated for individuals who are disqualified, excluded, suspended, or expelled from the University. If reinstated by the University following disqualification, exclusion, suspension, or expulsion, the veteran or eligible dependent must contact Veterans Services to have their VA educational benefits re-activated. Individuals placed on academic probation will continue to receive benefits as long as he or she earns a 2.0 or higher GPA each term. For students who fail to maintain satisfactory academic progress, benefits will be terminated once the required credit hours of course work for the program of study 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 and off-campus work terms. Contact Veterans Services for more specific benefit information on Cooperative Education.

Student Disability Services (SDS)
Director: Philip Kaffin; FC 132; 407-823-2371
http://www.sds.sdes.ucf.edu
The Office of Student Disability Services provides information and individualized accommodations consistent with the student’s documented disability. Such accommodations may include, but are not limited to, assistance with classroom accommodations (including examination accommodations), assistance with course registration, and information and referral to campus and community services for students with disabilities. To be eligible for disability-related accommodations, students must have a documented disability as defined by applicable federal and state laws. Accommodations are available to students whose disabilities include, but are not limited to, attention-deficit hyperactivity disorder, deaf and hard-of-hearing, physical disability and/or health-related impairment, psychological and/or psychiatric disability, specific learning disability (such as dyslexia), speech impairment, visual impairment, or other disabilities requiring administrative or academic accommodations. Students seeking accommodations are required to provide recent documentation from an appropriate health care provider or professional.

If a student needs special admission consideration based on a disability, the student should answer this question on the Application for Admission form and send the requested appropriate documentation to the Undergraduate Admissions Office. After admission to the University, students who have a disability that may require disability accommodations must contact Student Disability Services for an intake interview to be eligible to receive disability accommodations. The student will be required to provide disability documentation during the intake interview at Student Disability Services. All information is confidential and will be used only to assist the student. A Text Telephone (TTY)/Telecommunication Device for the Deaf (TDD) is available for deaf/hard-of-hearing or speech-impaired persons with TTYs/TDDs to contact Student Disability Services (TTY/TDD calls only phone 407-823-2116).

Administrative Services
Associate Vice President: Sharon Ekem; MH 282; 407-823-3167
http://www.admin.sdes.ucf.edu
Budget and Personnel Support
Director: David L. Pavlennis; MH 282; 407-823-3167
http://www.admin.sdes.ucf.edu
Budget and Personnel Support’s goal is to improve the quality of University operations and student success by providing SDES personnel with overall management and leadership in resource management, and technology support. This is accomplished through collaboration and coordination with SDES staff and other university academic and administrative units. Specifically this office provides support in areas of budget, personnel, purchasing, and technology support.

Activity and Service Fee Business Office
Director: Joseph Sciarro; SU 215; 407-823-5548
http://www.asf.ucf.edu
The Activity & Service Fee Business Office provides a variety of services to UCF students. The office processes purchase requests for most Activity & Service Fee Agencies and all Student Government allocations. We provide financial training workshops to student organization officers and their faculty/staff advisors. The office also provides a variety of equipment for check out to any student FREE of charge.

In addition, our office manages the operation of the Student Government Computer Lab, which is located in SU 209. The Student Government Computer Lab has 42 computer stations available and is the only lab that provides FREE printing to currently enrolled students. Our office also manages the Student Government Ticket Center which sells a variety of discounted tickets to local amusement parks and movie theaters, and is also an authorized TicketMaster Retail Outlet.

Alcohol and Other Drug Prevention Programming
Director: Tom Hall; COUN; 407-823-0879
http://www.aod.sdes.ucf.edu
The Alcohol and Other Drug Prevention (AOD) Programming Office offers a wide variety of services, including education, prevention, alcohol and other drug assessment/evaluation, short term intervention, counseling, and referrals. The AOD Office partners with other campus and community programs to create a healthy environment for students to study, work and play. Programs, activities and support services are provided to students to encourage low risk, responsible choices; ones that will optimize their personal and academic success and enhance their time at UCF.

Additionally, this office serves as an umbrella for the Real Project Peer Advocacy Program. We offer a three hour elective credit course, HLP 2701, “Sex, Drugs and 3 Credit hours?!” Information on contemporary college health issues such as alcohol and other drugs, sexual assault, HIV/AIDS, sexually transmitted infections and diversity are discussed. Students explore ways to assist their peers with life skills development when dealing with these issues. Students then have an opportunity to utilize these skills and knowledge to present valuable information and act as a resource to other peers on campus.

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

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

The sale, service, possession and consumption of alcoholic beverages shall comply with state and federal laws, city and county ordinances, and the licensing agreement with on-campus distributors which allows for the sale and service of alcoholic beverages. In accordance with the University has formulated the following policies governing the sale, service, possession and consumption of alcoholic beverages on campus. For more information regarding Alcohol/Drug Policy, visit http://www.goldenrule.sdes.ucf.edu/14_Drug_Free.html.
Division of Student Development And Enrollment Services

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

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

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

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

Campus Life
Associate Vice President: Craig E. Ullom; SU 304; 407-823-2626
http://www.campuslife.sdes.ucf.edu

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

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

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

Fraternity and Sorority Life
Director: Belinda Boston; SU 154; 407-823-2072; (Greek Council Office, SU 154, 407-823-2072)
http://www.greeklife.sdes.ucf.edu

The Fraternity and Sorority Life office is committed to providing the best possible fraternity and sorority experience for both students and the University community. This office fosters and promotes the development of national fraternities and sororities by providing advice, services, and programs to ensure all members engage in high-quality undergraduate fraternal experiences that reinforce the organization’s founding principles: scholarship, community service, campus involvement, and sisterhood/brotherhood. It encompasses small group living and more importantly, developmental programming for individuals, chapters, chapter alumni boards, house corporation officers, and collegiate governing boards (i.e., Interfraternity 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, 44 fraternities and sororities involve more than 3,400 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 community through participation in fraternity or sorority recruitment. The Interfraternity Council and Panhellenic Council sponsors “Recruitment” or “Rush,” which actually consists of visiting the various chapters to meet current members and to ask questions about their organizations. Diversified Greek Council (DGC) sponsors Meet the Greeks and the National Pan-Hellenic Council (NPHC) sponsors a Greek Expo, which allow students to become familiar with those groups comprising that governing body. Whether or not an individual chooses to join a fraternity or sorority, Recruitment, Greek Expo and Meet the Greeks are excellent ways to meet people and become acquainted with life at the University of Central Florida. Learn more about fraternities and sororities by visiting our website at: http://www.greeklife.sdes.ucf.edu.

Health Services
Director: J. Robert Wirag, HC 309, 407-823-2094
http://hs.sdes.ucf.edu

Recognizing the importance of lifestyle in health and the prevention of disease, UCF Health Services complements quality care for illnesses and accidents with a meaningful health education and lifestyle enhancement program. Additionally, Student Wellness Advocate Team (SWAT) enhances the health promotion efforts of the Reach for Wellness Program through the Recreation and Wellness facility.

Physicians, advanced registered nurse practitioners, physician assistants, registered nurses, pharmacists, and a full complement of other medical support personnel staff the Health Center. Medical conditions that require specialty care services are referred to specialists in the greater Orlando area or to specialists according to the patient’s preference.

Each health fee paying student is entitled to the benefits provided through Health Services, which are outlined in printed material available from the Health Center or on its website at http://hs.ucf.edu. Most office consultations and programs are provided without charge. However, 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 periodic mailers or by contacting the Office of Student Development and Enrollment Services, Student Government, or the Health Services Business Office (407-823-1087). Please remember that optional health and accident insurance is not part of the Health Services program, provides the health fee insurance. If purchased, will cover most of the supplemental Health Services charges and provides for health coverage needs that are beyond the scope of the campus Health Services program, such as hospital referrals and specialty care. Charges incurred outside the Health Center are the responsibility of the student.

When the Health Center is closed, students may obtain information and help from the Health Services’ telephone message, its website (see above), 24/7 WebMed (the web-based interactive system to help make decisions about health needs - http://hs.ucf.edu), or if the situation is urgent, by calling 911 or the UCF Police Department.

Health Services staff offers confidential testing for HIV (AIDS virus). A program for anonymous testing is available elsewhere by calling the REDACT program at 407-823-2437. Information concerning these programs may be obtained by calling the Health Center at 407-823-2701 during regular hours.

Housing and Residence Life
Director: Christi Hartzler; HAB 101; 407-823-4663
http://www.housing.ucf.edu

The Department of Housing and Residence Life offers regularly enrolled single students paying registration fees for a minimum of nine credit hours housing on the Orlando Main Campus and the Rosen College of Hospitality Management Campus. Orlando Main Campus housing is reserved for mostly incoming first-year students. A limited amount of space is available for upper-class students who are currently living on-campus housing. Graduates student, transfer student, married, and family housing is not available on the Orlando Main Campus. Transfer students, Graduates Students, and first-year students are all welcome at the Rosen College of Hospitality
Students can apply to housing after being admitted to the University. There is not enough on-campus housing for all first-year students who apply. Therefore, those first-year students desiring to live on-campus should apply for admission to the University as soon as possible. Application periods include fall/spring academic year contracts with a separate application for summer or 11.5 month annual contract. Priority for room assignment for a new applicant is based on the date of receipt of the completed housing application.

Housing choices range from suite style residence halls to single bedrooms in apartments. Most first year students who apply for academic year contracts will receive assignments in double room suite style residence halls. Single bedrooms in apartments are available in the 11.5 month annual housing including the Towers at Golden Knights Plaza located on the Orlando Main Campus or the Rosen College of Hospitality Management Apartments.

More information on the different housing options, rates, floor plans, etc. is available online at http://www.housing.ucf.edu.

Applicants have the option of choosing one of several University meal plans. Specific information concerning University meal plans is available from UCF Dining Services online at http://www.ucfdining.com.

Intramural Sports

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

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

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

LEAD Scholars Program

Director: Gary Morgan; SU 207; 407-823-2223
http://www.lead.sdes.ucf.edu

Scholars Program

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

The general goal of the LEAD Scholars Program is to prepare students to be effective community leaders in personal, professional, and civic communities. This goal is achieved through three venues: academic excellence, leadership, and community service. Students are integrated with faculty in the colleges of Arts and Humanities, Business Administration, Education, Engineering and Computer Science, Health and Public Affairs, and Sciences. These colleges host two credit Foundations of Leadership courses providing the primary means of facilitating the focus for study, advisement, and educational activities as it relates to leadership, academic excellence, and community service within the college. Students from any major are eligible to apply to the LEAD Scholars Program.

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

Students are selected for this two year program, prior to their freshman year, through a competitive process based on academic record, extracurricular and community activities, school recommendation, expressed interest in leadership, academic excellence, and community service. The LEAD Scholars Program serves as a bridge for participation in leadership opportunities as upper division students and in future community leadership roles.
Program topics include: good nutrition on a student budget, relaxation strategies for busy students, weight management, smoking cessation, body image and sexual identity issues. Workshops are scheduled in residence halls, club meetings, and classes.

Free and low-cost services include: the Comprehensive Health Assessment and Motivation Program (CHAMP), licensed massage therapy, biofeedback relaxation therapy, registered dietitian appointments, confidential and anonymous HIV testing, and body fat and blood pressure checks.

Participants can earn “LINK Loot.”

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

The Recreation and Wellness Center (RWC), an integral and active service of the diverse University community, supports and strengthens the mission of the University of Central Florida. Our mission is to foster healthy lifestyle choices and wellness through efficient services, comprehensive programs and high-quality facilities. The Recreation and Wellness Center is designed to enrich campus life and advance the University’s educational mission. Benefits of participation include the application of leadership, decision-making, problem solving, conflict management, communication and social skills. We strive to provide the safest, cleanest, highest quality, most dependable and enjoyable services. RWC is comprised of five different programs: Intramural Sports, Sport Clubs, Outdoor Adventure, Fitness, and Aquatics. 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 operates the Lake Claire recreation area, located just north of Greek Row. Lake Claire offers picnic facilities, watercraft usage, and a nature trail. The facilities are available for group activities by calling 407-823-2408.

RWC Indoor Facilities:
- Four indoor multipurpose courts
- 1/8 mile indoor track
- 12,000 sq. ft. weight floor
- 3,000 sq. ft. Cardio floor
- 41 ft. Climbing Tower
- Group exercise studio
- Spinning studio

RWC Outdoor Facilities:
- 230,000 gallon 6 lane outdoor pool
- 181,000 gallon Leisure pool ranging from zero to five ft. deep
- Eight sand volleyball courts
- Three basketball courts
- Seven tennis courts

RWC Park:
- Three lighted artificial turf fields
- Two softball/baseball fields
- Nine acre multipurpose field

Challenge Course:
- High Elements; 10 total; on two levels between 25-45 ft.
- Low Elements; 11 total

The high elements course is one of only five in the country.

Rosen College of Hospitality Management Campus Life
Director: Tony Perry; 9907 Universal Blvd., Suite 201L, Orlando, FL 32819; 407-903-8072

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

Student Government
OSI/SGA Advisors: Director Kerry Welch & Assistant Director Christa Coffey; SU 214; 407-823-2191
http://www.sga.ucf.edu

The Student Government Association’s purpose is to represent student views on issues affecting UCF and to promote progressive changes that improve campus life. In advocating better communication and understanding among the UCF family, the Student Government Association 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 agency (Campus Activities Board, Homecoming, Volunteer UCF, Late Knights, and the Multicultural Student Center) programming. Money allocated by the Student Government Association 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. SGA coordinates its efforts with the Florida Student Association in lobbying for students’ rights on local, state and national government levels.

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

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

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

By offering a wide range of services designed to assist as well as educate students in resolving their disputes, the Office of Student Rights and Responsibilities (OSRR) combines Student Legal Services, Dispute Resolution Services, and the Office of Student Conduct. OSRR provides a forum that contributes to the individual growth and development of the student’s knowledge of community responsibilities, due process, conflict resolution skills, and University student conduct rules. Our resources are more effectively used by combining and referring within the judicial knowledge base that exists within these three services. The Office of Student Rights and Responsibilities publishes the Student Handbook, The Golden Rule, which contains more detailed information on student life. Copies of The Golden Rule can be obtained at Ferrell commons, room 155, or can be viewed on the web at www.goldenrule.sdes.ucf.edu

Dispute Resolution Services
Coordinator: Patty Farris; FC 154; 407-823-3477
http://www.drs.sdes.ucf.edu

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

Student Conduct
Assistant Director: Dana Juntunen; FC 140; 407-823-2851
http://www.osc.sdes.ucf.edu

The Office of Student Conduct addresses alleged violations of the “Rules of Conduct” contained within the student handbook, The Golden Rule. This office is also responsible for advising students of their rights during the Student Conduct Review Process, dean’s certification, and student eligibility checks. The rules of conduct can be found in the Golden Rule handbook and copies may be obtained at Ferrell commons, room 155, or can be viewed on the web at www.goldenrule.sdes.ucf.edu.
Students are urged to take advantage of the many services and educational programs available through the Office of Student Conduct and the Office of Student Rights and Responsibilities.

**Student Legal Services**  
**Assistant Vice President and Director:** Patricia A. MacKown; FC 155; 407-823-2538  
http://www.studentlegal.sdes.ucf.edu

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

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

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

**UCF Regional Campuses Student Services**  
**Assistant Vice President:** A.J. Range; University Tower, Suite 101, 2201 Research Parkway, Orlando, FL 32626; 407-823-2609;  
Director, Student Services, Eastern Region: Diana Weidman  
Director, Student Services, Southern Region: Terry Exum  
Director, Student Services, Western Region: Pamela Brady

The UCF Southern Region (Cocoa; 321-433-7950 or 321-433-7811) and UCF Eastern Region (Daytona; 386-255-7423) Student Services offices provide student services at the regional campuses, including: veteran services, transition or registration assistance, and accommodations for students with disabilities. In addition, the offices provide programming and assistance to clubs and organizations as well as various standardized test information.
Undergraduate Admissions

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

The Office of Undergraduate Admissions at the University of Central Florida coordinates the admission and enrollment of all undergraduate first-time-in-college, transfer, non-degree, and non-Florida state university transient students to the Orlando, Daytona, South Lake and Cocoa campuses. The office’s primary mission is to identify, attract, and enroll talented, diverse, and academically qualified students who will contribute to, achieve growth and success at, and benefit from attending the University of Central Florida. The Office of Undergraduate Admissions seeks to attract students who are motivated, creative, and committed to academic excellence. The office will accomplish this through personal contacts, strategic communication, information management, and targeted recruitment. The office is dedicated to providing quality customer service through effective teamwork and through the development of collaborative partnerships with both internal and external communities. The office administers several programs for prospective students and parents, including daily tours and information sessions, open houses, area receptions for admitted students, and high school and community college visits by admission counselors. It also provides the opportunity to meet one-on-one with an admission counselor on campus. Please contact the office at 407-823-3000 or visit our website for further information. Office hours are: Monday/Thursday 9:00 a.m. to 6:00 p.m., Tuesday/Wednesday/ Friday 9:00 a.m. to 5:00 p.m.

Campus Visit Experience

Information sessions and campus tours are available through our “campus visit experience”. All freshmen (ftic) and transfer prospective students and their families are encouraged to participate. The Campus Visit Experience, which includes both an information session and tour of the campus, begins at the University Welcome Center at 10:00 a.m. and 2:00 p.m., Monday through Friday, except holidays. Reservations are encouraged and can be made by visiting our website at www.admissions.sdex.ucf.edu. Group tours of up to 80 or special requests may be accommodated and can be requested by visiting our website. Meetings with admissions counselors to discuss your particular concerns about admission to the University are available by appointment. You may contact the admissions office at 407-823-3000 or visit us at our website. Information sessions and campus tours are also available for students interested in our Rosen College of Hospitality Management. Please contact us at 407-903-8000 for further information.
Application for Admission
All interested applicants should complete the University of Central Florida "Undergraduate Admissions Application" and include the $30 in U.S. Currency, non-refundable application fee. Students may also apply online at our web site, http://www.admissions.sdes.ucf.edu. Students should apply several months in advance of an anticipated start date. Mail 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 can be submitted up to several months prior to the start of the term desired. The priority application deadlines are May 1 for the Fall semester (July 1 for Transfer students), November 1 for the Spring semester, and March 1 for the Summer term. The priority deadline for most financial assistance and 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 the undergraduate catalog outlines minimum requirements that must be considered for admission and that admission to the University is selective. The satisfaction of minimum requirements does not guarantee admission. Conversely, Florida Department of Education policy allows the University to admit students to any semester as exceptions to the minimum requirements. The Undergraduate Admissions Office and the Admissions and Standards Committee are responsible for the admission of all undergraduate students under this exceptions policy.

Applicants must request that official transcripts from each educational institution attended be forwarded directly to the Undergraduate Admissions Office. To be considered official, all supporting admissions documents must be received directly from the issuing institution or testing agency. All final supporting documents (official transcripts and test scores) must be received by Undergraduate Admissions no later than 10 days after the first day of classes.

Note: Furnishing false or fraudulent statements in connection with an application for admission or residency affidavit may result in disciplinary action, denial of admission, loss of financial aid, and invalidation of credits or degrees earned. Those enrolled students who have not submitted official completed records by the deadline will be placed on administrative hold. Students with these incomplete records will not be permitted to register for a future term. All official transcripts and other required documents must be received by the deadline to avoid placement on administrative hold. Students who have completed their application online will receive an admission decision several weeks after the deadline.

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

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

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

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

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

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

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

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

High School Academic Units and Grade Point Average
All applicants must have earned a minimum number of high school academic units (year-long courses that are not remedial in nature) in the subject areas and courses recommended by the Articulation Committee and approved by the Department of Education. The high school academic unit requirements are as follows:

<table>
<thead>
<tr>
<th>Academic Subjects</th>
<th>Units Required</th>
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<tbody>
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<td>English (three of which must have included substantial writing)</td>
<td>4</td>
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<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>
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<tr>
<td>Social Science (includes: history, civics, political science, economics, sociology, psychology, and geography)</td>
<td>3</td>
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<tr>
<td>Foreign Language (both credits must be in the same language)</td>
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</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>3</td>
</tr>
</tbody>
</table>

Total Units 18

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

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

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

<table>
<thead>
<tr>
<th>HS GPA</th>
<th>SAT</th>
<th>ACT</th>
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</thead>
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<td>2.6</td>
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<tr>
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<tr>
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<tr>
<td>2.9</td>
<td>970</td>
<td>20</td>
</tr>
<tr>
<td>3.0</td>
<td>900</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, upon appeal and in the judgment of the Admissions and Standards Committee, the student can be expected to do successful academic work. The University will provide appropriate advising for each student admitted under this alternative.

- Students who have been enrolled in dual enrollment courses will be required to have a minimum “C” average (2.0 GPA) for all completed dual enrollment course work.

- A student must have two years of one foreign language in high school or the equivalent (minimum eight credit hours) at the post-secondary level, to be offered admission.

Dual Enrollment Applicants

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

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

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

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

Transfer Applicants

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

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

Transfer students are required to complete, at least, 30 hours in residence at UCF to earn a bachelor’s degree. In addition, students must complete 48 hours in residence at UCF to be eligible to receive baccalaureate honors recognition at the time of graduation.

Transfer students are encouraged to review the current edition of UCF’s “Transfer Counseling Manual” available in Florida public community college counseling offices. The manual provides the recommended community college course requirements for all majors as well as other helpful information.

Transfer Applicants With Fewer Than 60 Credit Hours

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

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

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

- At least 60 credit hours of academic work exclusive of occupational courses and basic required physical education courses;
- An approved general education program of at least 36 credit 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 credit hours) of such instruction at the post-secondary level must satisfy the admission requirement prior to graduation. Florida Community College Associate in Arts graduates are guaranteed the following rights under the Statewide Articulation Agreement (State Board of Education Rule 6A-10.024):

1. Admission to one of the eleven state universities, except to “limited access” programs (programs that have additional admission requirements);
2. Acceptance of at least 60 credit hours by the state universities toward the baccalaureate degree;
3. Transfer of equivalent courses under the statewide Course Numbering System;
4. Acceptance by the state universities of credit earned in accelerated programs (e.g., CLEP, AP, PEP, Dual Enrollment, Early Admission, and International Baccalaureate); and
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.
   Should any guarantee be denied, students have the right of appeal through the Office of Undergraduate Admissions and the Admissions and Standards Committee.

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

Undergraduate transfer applicants who desire to be admitted as upper division students must have met, at least, all of the following requirements:
- A minimum of a 2.5 GPA and 60 credit hours of academic course work;
- The English and Mathematics requirements of the Gordon Rule; and
- A minimum of eight credit hours of college instruction in a single foreign language. This requirement applies to those students without the required two units of a single foreign language in high school.

Meeting these minimum requirements does not guarantee admission.

Second Bachelor's Degree Applicants

Second Bachelor's Degree applications are processed by the Undergraduate Admissions Office or the Registrar’s Office. Guidelines for which office students should make application to are outlined as follows:
- Students who have never attended the University of Central Florida as 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 or to participate in intercollegiate sports; and,

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

International Applicants

The University of Central Florida is authorized under federal law to enroll students on non-immigrant visas. All international candidates applying for admission to UCF must submit a University of Central Florida "Undergraduate Admissions Application," or apply online at http://www.admissions.sdes.ucf.edu/underapplink.asp. Because of additional processing time needed for non-immigrant students joining UCF on F-1 or J-1 Visas, those students should submit the application and all required academic documentation by the international admissions deadlines. These students must also complete and submit the required financial and immigration documents by the deadline. The deadlines for Fall semester are February 1 (for students abroad) and March 1 (for transfer students); for Spring semester, July 1 (for student abroad) and September 1 (for transfer students). The University does not accept admissions applications for Summer semester from F-1 and J-1 applicants from abroad or transferring from other U.S. institutions:
- Submit the completed UCF admissions application form with the required $30.00 application fee (check or money order in U.S. currency). An online application is available on our web site at http://www.admissions.sdes.ucf.edu/underapplink.asp
- Students who attended an international secondary school that uses a grading and evaluation system different from the U.S. system will need a document-by-document evaluation of the secondary school record in English. This record, which should include performance evaluations, grades for work completed over a period of at least three years, as well as any certificates earned, should be sent to one of the agencies listed below. They will translate it if necessary, evaluate it, and then send their evaluation directly to UCF. A grade point average should be calculated and must appear on this evaluation.
- If the student has attended any international universities, an English translation and evaluation of work completed at each institution will be necessary. Transcripts should be sent to one of the agencies below for a course-by-course evaluation. Please note that if 60 or more credit 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 credit hours of college credit. Information regarding these examinations may be obtained from the College Board (SAT), P.O. Box 5992, Princeton, NJ, 08540 or from ACT, P.O. Box 414, Iowa City, Iowa, 52243. While there are no specific minimum score requirements on these examinations for admission, they are used in conjunction with other required credentials, and students should prepare sufficiently to achieve the highest possible score on these exams.
Applicants must file a "Certification of Finances" form and supporting financial documents indicating financial support to cover educational and other expenses for the first year of study with the International Services Center. This form and other required documents must be on file prior to the issuance of the I-20 or DS-2019 forms by the University.

Educational Translations and Evaluations

Foreign diplomas must meet the requirements specified in Florida Statutes, section 229.614. UCF will accept English translations and evaluations of academic credit from these agencies:

- Josef Silny and Associates, World Education Services:
P.O. Box 248233, P.O. Box 745,
Coral Gables, FL 33124,
(305) 273-1616

Mandatory Health Insurance for International Students on F-1 and J-1 Visas

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

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 may receive any other academic and/or disciplinary action prescribed by the University, including but not limited to academic dismissal.

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 Schools and Colleges Accrediting Commission for Senior Colleges and Universities and Accrediting Commission for Junior Colleges.

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

All college level credits earned for which official transcripts have been submitted will be compiled into a "Transfer Summary Report" (TSR) soon after the student is offered admission. Some credits listed on the TSR may not be applicable toward the University requirements. The TSR will be the basis for constructing a "SASS Degree Audit," which applies earned credits to the intended degree program. The "SASS Degree Audit" provides the student with an assessment of which degree requirements have been met and what remains to be satisfied. The student will be assigned the TSR upon the student's tenure at UCF, so that the accepted transfer courses are understood clearly by the student and the faculty advisor early in the student's tenure at UCF.

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 students 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 tenure at UCF.

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 in 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 credit hours at UCF and is based upon an overall grade point average. For more details, refer to ‘Academic Honors’ within the “Academic Regulations and Procedures” section of this Undergraduate Catalog.
Office of Student Financial Assistance
Executive Director: Mary H. McKinney; Millican Hall, Room 120; Switchboard: 407-823-2827; Appointment: 407-823-5285; Fax: 407-823-5241; E-mail: finaid@mail.ucf.edu
http://finaid.ucf.edu

Office Hours:
Monday: 9:00 a.m. - 6:00 pm
Tuesday, Wednesday, Friday: 9:00 a.m. - 5:00 p.m.
Thursday: 1:00 p.m. - 6:00 p.m.
(Hours subject to change during holidays and semester breaks.)

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

Student Rights and Responsibilities
Students have the right to full information about the financial aid programs available at UCF, our application procedures and aid deadlines, and the criteria used to determine a financial aid package. Students have the right to appeal decisions made by the Office of Student Financial Assistance. Students have the right to equitable treatment of their financial assistance applications. Although each student’s case is analyzed individually, eligibility standards are applied uniformly without regard to race, gender, religion, creed, national origin, or physical handicap. All students’ records are confidential.

It is the student’s responsibility to review and understand all information and instructions, meet all deadlines, and provide all information and documentation accurately. Errors and omissions can cause delays and prevent students from receiving assistance. Misrepresentation is a violation of the law.

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

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

If the priority date is missed, students should apply as soon as possible after that date to be considered for the financial aid that is still available, such as Pell Grants, Stafford Loans, and PLUS Loans;

Students should not wait to be admitted to UCF before applying for financial aid;

Federal Pell Grants and Stafford Loans are available on a year-round basis. Students may apply for financial aid in advance of any term and receive aid from these programs, if eligible;

Students who apply for aid after July 15th should not expect their aid to be paid until well after the beginning of the fall semester;

A broad range of scholarship programs is available with diverse criteria. Please review the scholarship information on the Web site for specific deadline dates for individual scholarships.

Application Procedures
- The FAFSA can be filed electronically at http://www.fafsa.ed.gov. A link is provided on the Web site and on myUCF.
- Messages from the federal processor should be reviewed thoroughly;
- Review all correspondence, follow instructions on the Student Aid Report, and follow through promptly. Delays can be costly as well as frustrating;
- Federal Regulations require that some students be selected for
Financial Assistance and Fees

Estimated Cost of Attendance for 2007-2008

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<tr>
<th>Housing Status</th>
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<tr>
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<td>Tuition/Fees</td>
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<tr>
<td>Other</td>
<td>$3432.00</td>
</tr>
<tr>
<td>Non resident</td>
<td>$13254.00</td>
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</tbody>
</table>

Financial Aid Programs Available at UCF

Financial aid comes in many forms, such as grants, loans, employment, waivers, and scholarships. The Program Eligibility Charts on the Web site under “Receiving Aid” list the various programs and their specific enrollment requirements. Detailed information for each program can also be found on the Web site under its particular title.

Grants are considered gift aid and do not have to be repaid. Only undergraduate students who have not previously received a bachelor’s degree and who demonstrate financial need are eligible for grant programs. Awards are based on the amount of available funds and the number of eligible applicants. To be considered for grant awards, students must meet eligibility requirements and have a valid FAFSA on file with the office.

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

Federal Work Study is designed to provide students who demonstrate financial need a chance to earn money while pursuing a degree. Individual departments hire students while the Office of Student Financial Assistance determines the eligibility, award amount, and pay rate.

Scholarships are awarded based on various criteria, including financial need, campus/community activities, leadership positions, academic success, and work experience. Scholarships are designed to reward, encourage, and assist students in pursuing academic excellence and leadership roles.

Award Notification

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

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

Admission to UCF must be finalized with no contingencies. Students must be 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.

It is the student’s responsibility to be aware of minimal hourly requirements for each program which can be found on the Program Eligibility Charts on the Web site. When requirements are no longer met, awards will be adjusted as necessary and will appear on myUCF. All awards are subject to change.

Deferrals of Tuition and Fees

Financial aid awards will normally result in a deferment of tuition and fee payments. Deferments allow for the time lag that normally occurs between the date that tuition and fees are due and the date on which financial aid lawandments are made, which is normally two to three weeks after the semester begins. Students are responsible to pay any amount owed to the university that is not covered by estimated aid and/or other resources by the payment deadline. The deferment process occurs automatically if the student is meeting all general eligibility requirements and has enrolled in sufficient hours for the financial aid.
The student’s current mailing address listed on myUCF.

Ed into the student’s bank account. Otherwise, a check is mailed to

Aid disburses, the funds first apply towards university debts. When financial

Who apply late for financial aid should be prepared to cover their own

Available for download prior to each term, so that funds may be avail-

The application is available for students to help with these expenses. The application is

Available as early as the week before the first day of classes. Students

Financial aid disbursements begin the second week of each term. Students

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

Satisfactory Academic Progress (SAP)

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

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

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

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


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**Financial Assistance and Fees**

<table>
<thead>
<tr>
<th>Financial Aid Program</th>
<th>Deadline</th>
<th>Minimum Credit Hrs. Required</th>
<th>Available to Graduate Students</th>
<th>Second Undergraduate Degree Seeking</th>
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</thead>
<tbody>
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<td>Federal Pell Grant</td>
<td>Varies</td>
<td>Prorated based on hours</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Federal ACG</td>
<td>Varies</td>
<td>12</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Federal SMART</td>
<td>Varies</td>
<td>12</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Federal SEOG</td>
<td>March 1</td>
<td>12</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>UCF Grant</td>
<td>March 1</td>
<td>6</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>FSAG (Florida Student Assistance Grants)</td>
<td>March 1</td>
<td>6</td>
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<td>Federal College Work Study</td>
<td>March 1</td>
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<td>Federal Stafford Loan Program</td>
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<td>Federal Perkins Loans</td>
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<tr>
<td>Scholarships</td>
<td>Varies</td>
<td>Varies</td>
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<td>Federal Unsubsidized Stafford Loans</td>
<td>Posted each term</td>
<td>6 at UCF in UCF classes</td>
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<td>Federal Parent Loans for Undergraduate Students (PLUS)</td>
<td>Varies</td>
<td>6 at UCF</td>
<td>No</td>
<td>Yes</td>
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</tbody>
</table>

**Scholarship Information**

A broad range of scholarships are available through federal, state, institutional, and private sources. Each has different eligibility criteria. Consult the “Scholarship” online listing for more information. Inquire about ROTC scholarships at the ROTC office.

**Federal Stafford Loans**

These loans operate under the same terms as subsidized Stafford Loans except that financial need is not necessary. In addition, the student is responsible for the payment of interest as it accrues, (alternatively the interest can be capitalized into the loan balance).

**Federal Perkins Loans**

Currently are made at 5% interest rate; loans deferred until 6 or 9 months after the student graduates or drops below 1/2-time. Not available to post-baccalaureate students.

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**Federal Stafford Loan Program**

Repayment may be deferred. Loan amounts vary as well as interest rates and repayments options.

**Federal Perkins Loans**

Currently are made at 5% interest rate; loans deferred until 6 or 9 months after the student graduates or drops below 1/2-time. Not available to post-baccalaureate students.

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Repayment may be deferred. Loan amounts vary as well as interest rates and repayments options.

**Federal Perkins Loans**

Currently are made at 5% interest rate; loans deferred until 6 or 9 months after the student graduates or drops below 1/2-time. Not available to post-baccalaureate students.

**Scholarships**

A broad range of scholarships are available through federal, state, institutional, and private sources. Each has different eligibility criteria. Consult the “Scholarship” online listing for more information. Inquire about ROTC scholarships at the ROTC office.
**Financial Assistance and Fees**

<table>
<thead>
<tr>
<th>CLASSIFICATION</th>
<th>Time Limit Allowed For Completing Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undergraduate</td>
<td></td>
</tr>
<tr>
<td>Freshman</td>
<td>180 Attempted UCF Hours</td>
</tr>
<tr>
<td>Transfer Sophomores</td>
<td>135 Attempted UCF Hours</td>
</tr>
<tr>
<td>Transfer Juniors</td>
<td>90 Attempted UCF Hours</td>
</tr>
<tr>
<td>Transfer Seniors</td>
<td>45 Attempted UCF Hours</td>
</tr>
<tr>
<td>Second Degree</td>
<td>60 Attempted Hours</td>
</tr>
<tr>
<td>Masters</td>
<td>70 Attempted Hours</td>
</tr>
<tr>
<td>Specialist</td>
<td>100 Attempted Hours (Including all Graduate Hours)</td>
</tr>
<tr>
<td>Doctoral</td>
<td>120 Attempted Hours (Including all Graduate Hours)</td>
</tr>
</tbody>
</table>

Re-establishing Eligibility after Cancellation

Any student with extenuating circumstances, (i.e., death of a relative, an illness or injury of the student, etc.), who is placed on cancellation status may appeal to the Financial Aid Review Committee for reinstatement based on his/her special case.

If the student was canceled for the failure to complete 70% of the attempted hours and since cancellation, he/she has brought up the percentage to a minimum of 70%, the student may appeal to the above committee for reinstatement, at that time.

To appeal, the student must:
- Complete the Satisfactory Academic Progress Appeal Form; (available on the Office of Student Financial Assistance Web site at: http://finaid.ucf.edu, under forms.
- Attach documentation supporting specific circumstance(s) to the appeal form; and
- Submit the appeal and the supporting documentation to the Office of Student Financial Assistance.

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

Transfer Students

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

Independent Students

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

Dual Enrollment

Students who have been approved to take classes at another institution might have those hours counted toward meeting financial aid requirements for some programs at UCF. Dual enrollment will not meet eligibility criteria for institutional aid programs. Courses must meet some major or general education requirements to be calculated as part of student aid eligibility. All of the following documents must be submitted to the Office of Student Financial Assistance on or before the withdrawal deadline of the semester in which aid is to be disbursed:

1. Advisor Certification Form with all required signatures; 
2. A copy of the Fee Invoice and class schedule confirming that the classes and hours enrolled match the Transient Student Form; 
3. A completed Consortium Agreement Form to be completed by the transient school financial aid office.

Dual enrolled students must make arrangements to pay tuition and fees at the visited school since there is no system for deferral of those tuition and fees. In addition, it is the student’s responsibility to insure that the visited school promptly provides UCF with academic transcripts, confirming that the attempted hours are completed. Transcripts or grades should also be submitted to the Office of Student Financial Assistance. This will help avoid academic progress problems. Students who expect to receive funds under any of the federal loan programs must enroll for a minimum of six undergraduate hours at UCF in UCF classes to meet eligibility requirements.

Students may not receive financial aid from two institutions at the same time. Students must decide which of the two institutions is the primary school at which they are degree seeking and apply for aid there. Any inaccuracy will result in a mandatory repayment to one of the two schools for the overpayment.

Over Awards

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

Refunds and Return of Title IV Funds

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

Professional Judgment

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

Student Accounts Office

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

General Information

The Office of Student Accounts is here to serve the students who attend the University of Central Florida by maintaining accurate financial records and communicating with students concerning their accounts.

The Student Accounts Office is responsible for:
- Tuition and Fee Assessment/Refunds (Student Accounts, MH 107)
- Processing Payments (Cashier’s Office)
- Overdue payment and institutional loans collection (Loans and Collections)
Schedule of Fees* ([http://www.iroffice.ucf.edu/character/current_tuition.html](http://www.iroffice.ucf.edu/character/current_tuition.html))

*Note: 2007-2008 tuition and fees had not been established at the time of this publication. Rates for the 2007-2008 academic year will be available in early July 2007. Fees are subject to change without notice.

Tuition and Fees: Tuition and fees are established by the state legislature and University Board of Trustees and are subject to change without notice. Fees are affected by residency status. Tuition and fees are charged per semester or term for main campus, regional campus, and continuing education courses. Tuition is assessed on a per credit hour basis. Students classified as zero-hour registration students are assessed on a credit hour at the Florida Resident Tuition rate at the course level for which the student is registered.

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

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

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

Student Financial Responsibility Statement

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

Payment Procedures

Payment must be received or postmarked no later than the fee payment deadlines specified to be considered on time.

Non-cash payments (checks and money orders) placed in the 24-Hour Depository by the official fee payment deadline will be considered on time. Payments made at anytime on the date of the published fee payment deadline will be considered on time.

Acceptable forms of payment:

- Cash (Main Cashier’s Office)
- Checks
- Credit cards/ Debit cards
- E-Pay — [https://my.ucf.edu](https://my.ucf.edu) — E-Check or credit card — nonrefundable $10 convenience fee per transaction. Payments made at anytime on the date of the published fee payment deadline will be considered on time.

Tuition:

<table>
<thead>
<tr>
<th></th>
<th>Florida Resident</th>
<th>Non-Florida Resident</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tuition</td>
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<tr>
<td>Non-Resident Fee</td>
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<td>Building Fee</td>
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<td>Capital Improvement Fee</td>
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<td>Financial Aid Fee</td>
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<tr>
<td>Non-Resident Financial Aid Fee</td>
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<td>Athletic Fee</td>
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<td>Health Fee (per hour)</td>
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<tr>
<td>Transportation Access Fee</td>
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</tr>
<tr>
<td><strong>Total Per Hour Fees</strong></td>
<td><strong>$116.40</strong></td>
<td><strong>$567.24</strong></td>
</tr>
</tbody>
</table>

Tuition and Fees

Tuition and fees not paid by the published dates. Tuition and fees not paid by the payment deadline date for each term will result in late fees and could result in the cancellation of all classes.

2006-2007 Fee Payment Deadlines:

- UCF Campus Card Fee (per academic year) — $10.00
- Campus (ID) Card Replacement Fee — $15.00
- Material and Supply Fee (per term, approved courses only — varies per course) — $5.00-$45.00
- International Student Service Fee (per term) — $50.00
- Equipment Fee (per term, for use of equipment) Business majors — $15.00
- Equipment Fee (per term, for use of equipment) Medical majors — Full time: $70.00; Less than full time: $35.00

*Note: These fees are subject to change by action of the Board of Trustees.

Late Registration Fee (per term) — $100.00

Other Fees: Resident and Non-resident*

- Late Payment Fee (per term) — $100.00
- Returned Check Fees:
  - Check amounts over $50.00 — $25.00
  - Check amounts over $300.00 — $30.00
  - Check amounts over $500.00 and less than $1000.00 — $40.00 or 5%; whichever is greater

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.

Mail – Please do not send cash — Include the student’s PID on checks or money orders.

Address payments to: University of Central Florida
Cashier’s Office
P.O. Box 160115
Orlando, FL 32816-0115

Payment Locations (refer to [http://fa.ucf.edu](http://fa.ucf.edu) for hours):

- Cashier’s Office - Main Campus - MH 110 (407) 823-2614
- Cashier’s Office - Brevard Campus (BCC Cocoa Campus) - BLDG 11 Room 204 - (321) 433-7615
- Cashier’s Office - Daytona Beach Room 105 (no cash) - (386) 506-4073
- Cashier’s Office - Palm Bay Room 115 (no cash) - (321) 433-5187/5188
- 24-Hour Depository - Millican Hall at Reflection Pond Entrance (no cash)
- Cashier’s Office - Rosen College Campus Room 201A (no cash) - (407) 903-8187

FINANCIAL ASSISTANCE AND FEES
Financial Assistance and Fees

Credit card payments may be made online, through myUCF E-Pay (https://my.ucf.edu), or at any of the Cashiers’ Offices. A mandatory, nonrefundable $10 convenience fee will be charged each time a student chooses to pay tuition or other state mandated fees with a credit card through E-Pay.

Other Forms of Payment

Tuition and fees may be partially or completely paid by financial aid, Florida Prepaid, tuition waivers, or department grants. The student is responsible to pay any amount that is not covered by these types of payments by the fee payment deadline as described under Payment Procedures.

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

Florida Prepaid College Plan

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

The standard plan will pay $82.15 per credit hour (graduate or undergraduate level) for the 2006-2007 academic year. The plan does not cover the local fees of $34.25 per credit hour, material/supply fees, or the Student ID Service and Access Fee. The local fee plan, which is indicated on the Florida Prepaid Tuition Plan card, will cover $110.56 per credit hour. For further details on the Florida Prepaid Tuition Plan please visit our website www.fa.ucf.edu and click Forms. Then click on Student Services. Scroll down to Florida Prepaid Tuition Plan Procedures.

Note: the 2007-2008 tuition rates had not been established at the time of publication.

Tuition Waivers

State of Florida Employees Tuition Waiver

Full-time state employees may be allowed to enroll for up to six (6) credit hours of eligible instruction per term on a space-available basis without payment of tuition and fees. State Employee registration occurs on the last day of regular Registration for each term, at the time specified on the Academic Calendar http://www.registrar.sdes.ucf.edu/calendar/academic/ for each term. Should the employees register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will be invalid and the employee will be liable for all applicable fees. The tuition waiver cannot be used for courses that have increased costs (such as thesis, dissertation, and directed study). A “Florida Residency” Affidavit is required to establish Florida residency.

Direct Deposit

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

Past Due Accounts

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

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

Tuition and Fees for Senior Citizens

Persons 60 years of age or older who meet Florida residency requirements may register to audit classes on a space-available basis without payment of tuition and application fees. Registration is on a space-available basis; see the appropriate term’s Academic Calendar http://www.registrar.sdes.ucf.edu/calendar/academic/ for registration dates and times. The tuition fee waiver cannot be used for courses that require increased costs (such as thesis, dissertation, and directed individual study). A “Florida Residency” Affidavit is required to establish Florida residency. A completed “Student Health History” form must be filed prior to registration.

Refund of Fees

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

Full Refund Eligibility

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

Partial Refund (25%)

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

Exceptional Circumstances

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

UCF Employees Tuition Waiver

All full-time general faculty, administrative and professional (A&P), and staff (formerly called USPS) employees of the University of Central Florida who are employed in an established position on the date of fee payment deadlines 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 tuition and fees.

UCF Employee Registration occurs on the last day of regular Registration for each term, at the time specified on the Academic Calendar http://www.registrar.sdes.ucf.edu/calendar/academic/ for each term. Should the UCF employees register for the courses to which the waiver will apply prior to the prescribed date and time, the fee waiver will become invalid and the UCF employee will be liable for all applicable fees. Any UCF employee who uses an Employee Tuition Waiver for approved courses must submit a completed and signed Tuition Waiver Form to the UCF Student Accounts Office (MH 107) by each term’s fee payment deadline. See the Academic Calendar http://www.registrar.sdes.ucf.edu/calendar/academic/ for each term for the fee payment deadlines. Prior to enrolling into courses each term, refer to the Human Resources web site at http://www.hr.ucf.edu/web/forms/benefits/tuitionwaiver.pdf for eligibility requirements, course restrictions, and the waiver application form.

Students are encouraged to list alternate courses on their waiver form to substitute for preferred courses that are completely filled.

Courses that are not listed on the waiver form cannot be waived.

Direct Deposit

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

Past Due Accounts

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

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

Late Fees

Late Payment Fees apply to students who do not pay their fees or who do not pay their fees (or obtain a full fee deferment) by the payment deadline. The Late Payment Fee is $100 per term.

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

**Fee Appeals**

Students who desire to appeal a Late Registration Fee and/or a Late Payment Fee may make their appeal to the Fee Appeals Committee by initiating a student petition (Form 41-581). This form can be obtained online at fa.ucf.edu. Click Forms, Student Services, and Fee Appeals Petition. Students must submit their petitions to Student Accounts (MH 107) and may appear before the Committee (not mandatory). Forms faxed to Student Accounts should be addressed Attn: Fee Appeals (407) 823-6476.

**Holds**

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

**Administrative Procedures Act**

The University of Central Florida, under applicable rules of the Administrative Procedures Act, may change any of the announcements, information, policies, and rules, regulations or procedures set forth in the online Web Enrollment Guide. Statements in the Web Enrollment Guide may not be regarded in the nature of binding obligations on UCF 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 term or in day and evening sessions. Students should refer to the current Undergraduate Catalog or the Graduate Catalog for the complete Policy Statement.

**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, parolee, Cuban national, Vietnamese refugee, or other refugee or asylee so designated by the United States Citizenship and Immigration Service.

**And**

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

**And**

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

1. Documentation establishing legal residence in Florida (this document must be dated at least one year prior to the first day of classes of the term for which resident status is sought). The following documents will be considered in determining legal residence:
   a. Declaration of Domicile (Note: the Declaration of Domicile will support a claim of domicile than a temporary or merely incidental to enrollment in a Florida institution of higher education. The following documents will be considered in determining 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 receipt), 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;
      k. Proof of domicile in Florida of family;
      l. Proof of admission to a licensed practicing profession in Florida;
      m. Any other factors peculiar to the individual that tend to establish the necessary intent to make Florida a permanent home and that the individual is a bona fide Florida resident, including the age and general circumstances of the individual;
      n. Proof of graduation from a high school located in Florida.

3. No contrary evidence establishing residence elsewhere;

4. Documentation of dependent/independent status (notarized copy of most recent IRS tax return)

   Or

   Be married to a person who has been a legal resident of the State of Florida for the required 12-month period and relinquish legal ties to any other state,
   Or

   Be a member of the Armed Forces on active duty stationed in Florida, or a spouse or dependent,
   Or

   Be a member of the full-time instructional or administrative staff of a state public school, community college, or university in Florida, a spouse or dependent,
   Or

   Be a dependent and have lived five years with an adult relative, who has established legal residence in Florida,
   Or

   Be a person who was enrolled as a Florida resident for tuition purposes at a Florida institution of higher education, but who abandoned Florida residency and then re-enrolled in Florida with 12 months of the abandonment,
   Or

   Be a full-time Latin American or Caribbean student who receives scholarships from the federal or state government,
   Or

   Be a United States citizen living on the Isthmus of Panama who has completed 12 consecutive months of college work at the Florida State University Panama Canal Branch, or a spouse or dependent,
   Or

   Be a graduate student of the Southern Regional Education Board’s Academic Common Market attending Florida’s state universities,
   Or
Be a full-time employee of a state agency or political subdivision of the state when the student fees are paid by the state agency or political subdivision for the purpose of job-related law enforcement or corrections training, 
Or
Be a U.S. Citizen who is a McKnight Doctoral Fellowship recipient, 
Or
Be a qualified beneficiary under the Florida Pre-paid Post-secondary Expense Program per s.240.551(7)(a), 
Or
Be an active duty member of the Canadian military residing or stationed in this state under the North American Air Defense (NORAD) agreement, or a spouse or dependent,
And
Submit a statement as to the length of residence in Florida and their residency qualifications under the above criteria. Students requesting Florida residency for tuition purposes shall apply to the appropriate admissions office if they have not yet enrolled, or to the Registrar’s Office if they already are enrolled.

Residency Reclassification
The offices of Undergraduate Admissions and Graduate Studies determine first term at UCF residency for tuition purposes for all newly admitted students. Thereafter, the Registrar’s Office will review student requests for changes in residency. The Registrar’s Office cannot review student requests for residency reclassification to be effective with the student’s first term of enrollment. To request a residency review, the student must submit a completed “Residency Reclassification Application and Affidavit” 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. This form must be accompanied by all documents that support the student’s Florida residency claim. Residency reclassification requests are subject to Florida Statute 1009.21, Florida State Board of Education Administrative Code 6A-10.044, and State Board of Education rule 6C-7.005. In addition, University policy requires students requesting residency reclassification to provide documentation establishing that they have income or personal sources to meet financial obligations of attendance and living expenses. Contact the Registrar’s Office at 407-823-3100 for additional information regarding all residency reclassification requirements.

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

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

Students entering the second term of enrollment at UCF or later who believe that they qualify for Florida residency must submit the “Residency Reclassification Application and Affidavit” and all documents to the Registrar’s Office (MH 161) prior to the close of “Late Registration and Add/Drop” for the term in which Florida residency is requested. Documentation received after the last day of “Late Registration and Add/Drop” will not be used to determine residency for the current term. Approved residency reclassification will not be applied retroactively to previous terms. The Registrar’s Office may require additional documentation beyond that initially submitted by the student or the claimant before it can render a reclassification eligibility determination and it will not complete its review of the residency reclassification application until both the student and the claimant have submitted all requested documents.
Responsibilities

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

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

Freshman (First Time in College - FTIC)

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

New FTIC Students can expect to:
1. Attend a mandatory Orientation that will provide:
   a. Initial academic advising in a group setting and preparation for the first semester, including schedule planning and registration
   b. An assessment of high school grades, entrance and placement test scores, and AP, IB and CLEP credit
   c. An awareness of expectations for success at UCF
   d. Information about key academic policies and important deadlines
2. Connect with their first year advising office according to the following designated priority order:
   a. First Year Advising and Exploration (FYAE) - for first year students in the GOL, KSP, and EXCEL programs and those not in a special population listed below (PH 116)
   b. Academic Services for Student Athletes (ASSA) - for student athletes (WDSC 110)
   c. Student Academic Resource Center (SARC) - for Participants in the College Achievement Program (CAP) or Pegasus Success Program (PH 113)
   d. Multicultural Academic and Support Services (MASS) - for all students in the SOAR program (PH 102)
   e. Sophomore and Second Year Center (SC) - for freshman students entering UCF with 45 or more college credits earned through accelerated mechanisms from AP, IB, CLEP, and/or dual enrollment courses (PH 221)
   f. University Student Health Services (USHS) - for University students who are living on campus (PH 221)
   g. University Counseling Center (UCC) - for students in the ROIC program (PH 102)

   These offices provide services with general education advising, academic exploration 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.

Burnett College of Biomedical Sciences

New students will:
Meet with the Office of Student Services and Advisement (OSSA) advisors 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.

Continuing students will:
1. Meet with an advisor in the Office of Student Services and Advisement (OSSA) in HPA II, room 325 every semester to check progress toward graduation and selection of program courses;
2. See their faculty advisor each semester to check on possible career and research opportunities;
3. See an advisor in the Office of Student Services and Advisement (OSSA) if pending major for limited-access Medical Laboratory Sciences program during the first few weeks of each semester to check progress toward eligibility for application to the major;
4. View a SASS Degree Audit, the registration time, and search for classes (once the class schedule is available) through myUCF;
5. Register at the scheduled appointment time. Complete all schedule changes by the end of the published add/drop period;
6. File an "Intent to Graduate Form" in the Department of Molecular Biology and Microbiology, Office of Student Services and Advisement (OSSA), by the end of the term prior to the term in which graduation will occur; and
7. Pre-health professional students: See Pre-Health Professions Advisor in HPA I 124, 407-823-2670.

Pre-Health Professions Advisement

The Pre-Health Professions Advisement Office (HPA 124; 407-823-2670) serves all students University-wide preparing for and seeking admission to professional schools of medicine, osteopathic medicine, dentistry, optometry, pharmacy, podiatry, veterinary medicine, chiropractic, physical therapy, and physician assistant programs. 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 credit hours of typical undergraduate pre-health professions courses taken at UCF).

Pre-Health Professional Planning

Preprofessional advisement deals primarily with application and admission procedures to professional schools. 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 credit 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.

All students seeking admission to health professional schools should enroll in SLS 2311, Overview of Selected Medical Careers, on their first Spring semester at UCF.

Additionally, prudent use of elective hours in the curricula will permit other appropriate pre-health professions courses to be obtained.

All pre-health professions students are strongly encouraged to participate in the activities of one or more of the student health related organizations.

Curricula Guidelines

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

All pre-health professions students should complete the following science courses (many of which are applicable to the GEP) to meet the variable requirements of the Florida medical schools:
Academic Advising

General Biological Sciences: BSC 2010C, 2011C*
Genetics: PCB 3063
General Chemistry: CHM 2045C, 2046, 2046L
Organic Chemistry: CHM 2210, 2211, 2211L
Biochemistry: BCH 4053
Biochemistry/Molecular Lab: BCH 4103L or BSC 3403C
Microbiology: MCB 3020C
Calculus: MAC 2233 (prefer MAC 2311, 2312)
Physics: PHY 2053C, 2054C or PHY 2048, 2049
Statistics: STA 2023

*Molecular Biology and Microbiology majors substitute BSC 3403C (Quantitative Biological Methods) for BSC 2011C

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

Dates of Importance
The preprofessional 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, ADDSSAS, ACOMAS, etc.). Thus, students should complete a thorough application packet provided by the various application services. Otherwise, the student applicant must deal directly with the admissions office of the school.

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
5. Check their "Fee Invoices/Schedule" to ensure accuracy of class schedule
6. Attend any mandatory Honors advising appointments

College of Arts and Humanities
Majors within the College of Arts and Humanities should meet with their major advisor concerning major requirements and an advisor in CAHSA, CNH 202 regarding all other issues.

New students will:
1. Meet in a group setting during Orientation with representatives from the College of Arts and Humanities to discuss college policies and procedures.
2. Meet with a major advisor to discuss major requirements, career opportunities, and plan a class schedule;
3. Refer any questions pertaining to university credit hour requirements and college/university policies and procedures to CAHSA, CAHSA by the student for processing;
4. Register for classes at a central location; and,
5. Check their "Fee Invoices" to ensure accuracy of their class schedule.

Continuing students will:
1. Meet with their major advisor in the department to review academic progress and plan a program of study for subsequent semesters. Review this plan each semester with their major advisor and prior to registration;
2. Access their SASS degree audit, view scheduled appointment time and search for courses/register online at https://my.ucf.edu each semester;
3. Submit overrides to CAHSA in order to be registered in special classes. Overrides are given at the discretion of the professor/department. If permission is granted, the override or registration form is provided by the professor/department and must be delivered to CAHSA by the student for processing;
4. Refer any questions pertaining to university credit hour requirements and college/university policies and procedures to CAHSA. All questions pertaining to major/minor requirements should be directed to the department advisor in the major or minor program;
5. Meet with their major advisor to conduct a graduation review of major requirements in the semester prior to the intended semester of graduation. After seeing the major advisor and in the semester prior to the term of graduation, students should go to CAHSA to file their "Intent to Graduate" packet and review their plan for completion of degree requirements. Please refer to the academic calendar for the deadline to file your intent to graduate.

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

New students will:
1. Meet college advising representatives in a group setting during Orientation to discuss college policy, procedures, and degree programs;
2. Review degree requirements at Orientation using SASS Degree Audit and catalog to better understand degree requirements and learn how to read a SASS Degree Audit;
3. Meet with your advisor in the Office of Undergraduate Student Support (USS; BA2 101) during their first enrolled semester to petition transfer work into their degree program;
4. Meet with a faculty advisor in the department of their major to understand the career options of your major; and
5. Be advised in the USS if your major is Business Pending.

Continuing students will:
1. Meet with a faculty advisor or advisors in the USS to review their academic progress and develop an academic plan. This plan should be reviewed prior to registration each term;
2. Pick up your SASS Degree Audit from myUCF. Check myUCF or the Office of Undergraduate Student Support (USS; BA2 101) during their first enrolled semester to petition transfer work into their degree program;
3. Register at your scheduled appointment time. Register in myUCF if you are in your major. All changes to your schedule must be completed by the end of the Add/Drop period;
4. Complete all prerequisites prior to admission to upper division classes; and,
5. Meet with your advisor in USS during the semester/term prior to your graduation term. File your "Intent to Graduate Form" by the end of the term prior to the term in which you plan to graduate.

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

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

College of Engineering and Computer Science

New students will:
1. Meet with the Engineering and Computer Science Academic Affairs representative in a group setting during Orientation to: 
   a. Review the College of Engineering and Computer Science (CECS) academic policies and procedures
   b. Plan an appropriate first semester schedule; 
2. Meet with a faculty advisor in the department of their major to: 
   a. Understand the career options of the major
   b. Discuss degree program requirements; and
3. Be advised in the CECS 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. Meet with an advisor in the CECS Academic Affairs Office or the department of their major during each term. 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 CECS Academic Affairs Office or Computer Science Undergraduate Advising Office in HEC 246.
2. Set up an appointment with an advisor to review your academic progress and to develop an academic plan. Review this plan each term with the advisor prior to registration;
3. Use the flow diagram or four year plan received during orientation to progress through the degree requirements; 
4. View a SASS Degree Audit, the registration time, and search for classes (once the class schedule is available) through myUCF at https://my.ucf.edu;  
5. Register at the scheduled appointment time in myUCF, or in person in the CECS Academic Affairs Office (AAC). Complete all schedule changes by the end of the published Add/Drop period; and,
6. Submit a written schedule plan signed by their AAO advisor each term if you have been placed on an engineering advisement hold. This plan must be submitted in person to the CECS Academic Affairs Office each time a student uses the registration process. 
7. File an "Intent to Graduate Form" in the CECS Academic Affairs Office by the last day of classes 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.

Continuing students will:
1. See the COHPA Undergraduate Student Services Office (HPA 2, 115) during the first few months of the first semester to check selection of program courses, assignment of a faculty advisor, and progress toward graduation.
2. View a SASS Degree Audit through myUCF frequently to check progress toward course requirements
3. File an “Intent to Graduate Form” with an advisor in the COHPA Undergraduate Student Services Office by the end of the term prior to the term in which graduation will occur.

College of Nursing

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. Meet during the first semester with an advisor in the College of Nursing Student Services Office (HPA 2, 115).

Continuing students will:
1. If accepted in a nursing program, students should see a faculty advisor during the first few months of each semester to select program courses and check progress toward graduation.
2. If a nursing pending major, see an advisor in the College of Nursing, Student Support Office during the first few weeks of each semester to check progress toward eligibility for application to the major.
3. View a SASS Degree Audit through myUCF; and,
4. File an "Intent to Graduate Form" in the College of Nursing Office of Student Support by the end of the term prior to the term in which graduation will occur.

College of Sciences

Although students may have several advisors for various reasons, majors within the College of Sciences must meet with their major department and their faculty academic advisor and/or the staff of the College of Sciences - Academic Support (COSAS; CSB 250) as soon as possible.

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

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

Office of the Vice Provost

Office of Interdisciplinary Studies

All students must make an appointment to meet with a member of the Interdisciplinary Studies Advising Team prior to declaring a major in Interdisciplinary Studies.

New students will:
1. Meet with a member of the Interdisciplinary Studies Advising Team in an individual setting during orientation to discuss policies and procedures, degree program requirements and tracks, and plan an appropriate first semester class schedule; 
2. Schedule a meeting with a member of the Interdisciplinary
Academic Advising

Studies Advising Team (Classroom I - Suite 302) to officially declare their major and create an individual plan of study;
3. Meet with an advisor in the department of their minor to review the minor’s program requirements;
4. Refer to Academic Services any questions pertaining to general education requirements, AP and CLEP credit, Gordon Rule, and other policies and procedures as appropriate; and,
5. Register for classes online.

Continuing students will:
1. Meet with a member of the Interdisciplinary Studies Advising Team prior to registration and/or before the beginning of each term to review progress and selection of courses and address any questions pertaining to the program;
2. Access the class schedule and SASS Degree Audit and register online during their scheduled appointment time at https://my.ucf.edu;
3. Meet with an advisor in the department of their minor to review progress and prior to graduation, confirm that the minor requirements have been met;
4. File an “Intent to Graduate Form” in the Office of Interdisciplinary Studies by the end of the term prior to the term in which graduation will occur; and,
5. Check their “Fee Invoices” to ensure accuracy of their class schedule.

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

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

Regional Campus System
New transfer students may meet with a professional or faculty advisor prior to applying to UCF and at any time while enrolled to discuss programs and requirements. Students will meet with faculty or professional advisors in a group setting during Orientation to:
1. Discuss degree program requirements;
2. Understand career options of the major program of study; and
3. Plan an appropriate first semester class schedule.

Any student who has not been awarded an AA from a Florida public community college or state university and has not completed the UCF General Education requirements should make an appointment as soon as possible with an advisor at the appropriate UCF Regional Campus System location (or the Orlando Campus) to clarify University policies that will affect the student’s status and graduation. Continuing students may meet with their advisors on an on-going basis.

For a list of the academic programs available through the Regional Campus System, see ‘UCF Regional Campuses’ within the "University of Central Florida" chapter of this Undergraduate Catalog.
The following section presents information to help students accomplish a smooth and efficient transfer to UCF. Students transferring with an A.A. from a Florida public community college or state university are guaranteed certain rights and privileges according to the statewide Articulation Agreement. Students transferring without an A.A. from a Florida public institution will want to pay particular attention to UCF's general education program and how their transfer credits apply to their degree.

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

Where Can I Go For Help?

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

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

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

How Can a Community College Counselor or Advisor Help Me?

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

Why Should I Complete My A.A. Before Transferring From a Florida Public Institution?

Receiving your A.A. from a Florida public institution ensures special benefits guaranteed under the statewide Articulation Agreement. The following are some of the advantages of receiving your A.A.:

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

If you do not complete an A.A. at a Florida public community college or university, you must complete UCF’s general education requirements, which may be considerably different from your previous institution’s requirements. In addition, no grade forgiveness will be honored. All attempted credits will be averaged into your GPA for admission purposes. If you have met all the A.A. requirements except the CLAST, you should have “General Education Requirements Met” placed on your transcript to assure getting credit for meeting General Education and Gordon Rule requirements. Without this statement you must satisfy UCF’s general education requirements and Gordon Rule courses. If your grade point average falls below a 2.0 (without grade forgiveness), you will not be admitted.
Transfer and Transition Services

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

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

Admission requirements have changed for students entering the College of Education. The General Knowledge Test (GKT) of the Florida Teacher Certification Examination (FTCE) may now be used as both an admission and graduation requirement for state-approved teacher preparation programs. The CLAST will continue to be an admission option for students, but does not satisfy graduation requirements.

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

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

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

How Will My Credits Transfer?
All college level credits earned for which official transcripts have been submitted will be compiled into a Transfer Summary Report (TSR), which is available online. The TSR is the basis for constructing a SASS Degree Audit, which applies earned credits toward your intend-
ed degree program. The audit provides you with an assessment of which degree requirements have been met and which remain to be satisfied. You will use the audit to schedule courses that meet your remaining requirements.

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

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

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. Students can print a copy of their fee invoice online from myUCF (https://my.ucf.edu). A late payment fee of $100 will be assessed on all accounts not paid or deferred by each term’s payment deadline. Please note that you will not be sent a bill. It is up to you to view your invoice through myUCF. If you decide not to attend, but have registered for classes, be sure to drop all classes, or you will be fee liable.

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 deferments, 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 to 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 programs will be noted on your transcripts and diploma. For more information, call 407-823-2076 or visit the honors web site at http://honors.ucf.edu.

Transfer Tips:

Office Visits for Transfer Advising

- Students are encouraged to contact the Office of Transfer and Transition Services with questions or to schedule an appointment to meet with an advisor. Advisors are available Monday and Thursday, 8:30 a.m. to 5:30 p.m., Tuesday, Wednesday, and Friday 8:30 a.m. to 4:30 p.m.
- Transfer students accepted to UCF who are undeclared majors or are undecided about their major should contact Transfer and Transition Services prior to orientation for advisement.
- Undeclared students with 45+ credit hours are placed on advising hold.

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.
- 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.
- Complete the “Student Health Form.” Registration will not be allowed without the completion and approval of this form.
- Complete CLAST if possible; however, you can be admitted without it. Since the A.A. is not awarded without completion of CLAST, privileges provided by the A.A. are not granted (i.e., grade forgiveness, Gordon Rule, and the completion of general education requirements). Without completion of CLAST, but with all general education courses completed, you should request the following statement placed on your transcript: “General Education Requirements Met.” Without this statement, you must satisfy UCF’s general education requirements (including Gordon Rule courses).
- Complete the “Free Application for Federal Student Aid” (FAFSA). To be considered for all aid available, your financial aid file should be complete by March 1.
Requirements for Graduation

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

- Fulfill the requirements for the chosen major;
- Earn a minimum of 120 unduplicated credit 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 credit 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 credit hours after CLEP credit has been awarded;
- Apply no more than 45 credit 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 credit hours during Summer terms, if applicable; and
- Be registered at UCF during the semester of graduation.

Degrees Awarded Posthumously

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

Choice of Catalog (Catalog Year) and Continuous Enrollment

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

Continuous enrollment is defined as being enrolled in classes without a break of two or more consecutive regular semesters/terms (i.e., Fall and Spring, or Spring, Summer, and Fall). Continuous enrollment is automatically broken when a student moves from one transfer institution to another following academic disqualification or exclusion.

Students who change majors between different colleges (including the Rosen College of Hospitality Management) must adopt the most current catalog. Additional information is included in the program descriptions. Students pursuing a single degree (including double majors and/or minors) must use a single catalog and cannot use a combination of catalogs for graduation. In cases when required courses are no longer taught by the University, the appropriate department, college, or Academic Services (MH 210) may designate a reasonable substitute. If a student desires to change the catalog for graduation, the student should first discuss with the advisors how such a change would affect University, college, and major requirements. If a student decides to request a change, he or she must submit a “Catalog Year Change Request Form” to the Registrar’s Office (MH 161). This form is available at the Registrar’s Office or online at http://registrar.ucf.edu.

General Education Program (GEP)

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

Courses that fulfill the General Education Program requirements are specified, but in some cases an advanced course in the same discipline may be substituted for GEP requirements. These advanced courses, approved by the Faculty Senate Undergraduate Common Program Requirements Committee, are listed in the section identified as “Alternate Courses: General Education Program.” Students should consult with an advisor before enrolling in an advanced course.

Undergraduate students who have not completed requirements for the Associate of Arts degree and who desire to transfer to another Florida public university can have their transcripts indicate “General Education Requirements Met” upon written request, if they have completed UCF’s GEP requirements with a GPA of 2.0 or better.

UCEF will accept a similar statement on transcripts received from Florida public community colleges and universities in lieu of completion of the University’s General Education Program. Students enrolled in courses that use the “NC” grade must earn a grade of “C-” (1.75) or better.

General Education Program Learning Objectives

Communications Foundation

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

Cultural and Historical Foundation

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

Mathematical Foundation

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

Social Foundation

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

<table>
<thead>
<tr>
<th>General Education Program (GEP) Courses (36 credit hours required)</th>
<th>Substitution of Courses: General Education Program and Other Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Some majors require a specific course or a higher level course in some areas. Consult your major requirements and advisor.)</td>
<td>The Student Academic Support System (SASS) is coordinated by the Office of Academic Services for the evaluation of transfer courses for the University's General Education Program and Foreign Language Proficiency requirements. When the transfer course work is entered into the UCF computer system (usually during the first semester at UCF), course descriptions and other information to provide a sufficient basis for evaluation may be requested. Courses are evaluated on the basis of equivalency with the content of the courses required by the University. The evaluation conducted is entered into a computerized SASS Degree Audit system and then is available to the colleges and departments through the University's computer network and for the student online access through myUCF at <a href="https://my.ucf.edu">https://my.ucf.edu</a>. 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.</td>
</tr>
</tbody>
</table>
| Satisfactorily complete one course in each of the twelve numbered areas.  
1. ENC 1101 Composition 1, 2  
2. ENC 1102 Composition II PR: ENC 1101 1, 2  
3. SPC 1600C Fundamentals of Oral Communication  
4. SPC 1016 Fundamentals of Technical Presentation  
5. COM 1000 Communication | Alternate Courses: General Education Program  
Courses that may be taken in substitution for the stated GEP requirements are listed below: |
| 36 hours | GEP Requirement Acceptable Substitutions |
| |  |
| A. Communication Foundation |  |
| 1. ENC 1101 Composition 1, 2 |  |
| 2. ENC 1102 Composition II PR: ENC 1101 1, 2 |  |
| 3. SPC 1600C Fundamentals of Oral Communication |  |
| 4. SPC 1016 Fundamentals of Technical Presentation |  |
| 5. COM 1000 Communication |  |
| 9 hours |  |
| B. Cultural and Historical Foundation |  |
| 1. EUH 2000 Western Civilization I 1 |  |
| 2. EUH 2051 History of Western Art I |  |
| 3. ARH 2050 History of Western Art II |  |
| 4. MUL 2010 Enjoyment of Music |  |
| 5. THE 2000 Theatre Survey |  |
| 6. FIL 1000 Cinema Survey |  |
| 7. REL 2300 World Religions |  |
| 8. PHI 2010 Introduction to Philosophy |  |
| 9. ENC 2110 World Literature I PR: ENC 1102 2 |  |
| 10. ENC 2120 World Literature II PR: ENC 1102 2 |  |
| 36 hours |  |
| C. Mathematical Foundation |  |
| 1. MAC 1105 College Algebra 2 |  |
| 2. MGF 1106 Finite Mathematics 2 |  |
| 3. CGS 1060C Introduction to Computer Science 2 |  |
| 4. STA 1060C Basic Statistics using Microsoft Excel 2 |  |
| 5. STA 2014C Principles of Statistics 2 |  |
| 6. ECO 2013 Principles of Macroeconomics |  |
| 7. ECO 2023 Principles of Microeconomics |  |
| 8. POS 2041 American National Government |  |
| 9. PSY 2012 General Psychology |  |
| 10. SYG 2000 General Sociology |  |
| 11. ANT 2000 General Anthropology |  |
| 6 hours |  |
| D. Social Foundation |  |
| 1. ECO 2013 Principles of Macroeconomics |  |
| 2. ECO 2023 Principles of Microeconomics |  |
| 3. POS 2041 American National Government |  |
| 4. PSY 2012 General Psychology |  |
| 5. SYG 2000 General Sociology |  |
| 6. ANT 2000 General Anthropology |  |
| 6 hours |  |
| E. Science Foundation |  |
| 1. AST 2002 Astronomy |  |
| 2. PST 2111* Physical Science PR: MAC 1105 or MGF 1106 |  |
| 3. PHY 2053C College Physics I: MAC 1105 and MAC 1114 |  |
| 4. CHM 1020 Concepts in Chemistry PR: High School Algebra |  |
| 5. BSC 1060* Biological Principles |  |
| 6. BSC 1050* Biology and Environment |  |
| 7. GSC 2300 Geology & Its Applications |  |
| 8. GEO 1200* Physical Geography |  |
| 9. ANV 5510 Human Species |  |
| 10. MCB 1310 Intro to Biotechnology and Genetic Engineering |  |
| 1 hour |  |
| *A one credit laboratory is also available for this course.  
1A grade of “C-” (1.75) or better is required in this course.  
2A grade of “C-” (1.75) or better satisfies three hours of the Gordon Rule requirement. |  |
| Effective Date: Summer 2007 |  |

Individuals in their psychological, political, economic and social environments.

Science Foundation
- Demonstrate an understanding of science as an empirical attempt to acquire information about the real world, develop possible explanations of these phenomena, and test the explanations by predicting the outcome of future observations.
- Demonstrate an ability to assess the extent to which claims presented as “scientific” satisfy the empirical character of scientific explanations.
- Demonstrate understanding of scientific knowledge and problem solving in a physical or life science.

Substitution of Courses: General Education Program and Other Requirements

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 bachelor’s 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.
Undergraduate Degree Requirements

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 3422 Frontier Florida
AMH 3425 Sunbelt Florida
AMH 3562 Women in American History II
AML 3283 Contemporary American Women's Fiction
AML 3615 Harlem, Haiti, and Havana
ANT 3245 Native American Religions
ASH 4304 Women China
CCJ 4463 Cultural Diversity in Criminal Justice
CCJ 4670 Women and Crime
CJE 4174 Comparative Justice Systems
COM 4014 Gender Issues in Communication
COM 4461 Intercultural Communication
CPO 3034 Politics of Developing Areas
EDG 2701 Teaching Diverse Populations
GEO 3471 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 3682 Ethnic Literature in America
LIT 3192 Caribbean Literature
MMC 4300 International Media
MUL 2720 Music of the World
NUR 3805 Transition Concepts in Nursing I
PAD 4446 Multiculturalism in Public Administration
PLA 4020 Law and Society
PLA 4630 World Legal Systems
PLA 4XXX Employment Discrimination
POS 3627 Cultural Pluralism and Law
PUP 3325 Women and Politics
PUP 4622 Politics and Civil Rights
PUP 3314 Minority Politics
SOW 3620 Social Work with Minorities
SPW 4772 Black Presence in Contemporary Latin America
SYD 3800 Sex Roles in Modern Society
SYP 4732 Minority Aging
THE 3230 Commonality within Cultural Diversity Experienced through Theater
WST 3561 Third Wave Feminism
WST 3015 Introduction to Women's Studies

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

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

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

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

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

1. This requirement is for proficiency and not a requirement for a particular number of hours of course work. For example, successful completion of only SPN 1121 (Elementary Spanish Language and Civilization II) would satisfy the B.A. requirement. Appropriate scores on Advanced Placement and CLEP examinations will also satisfy the requirement.

2. This is a University-wide requirement for all B.A. majors.

3. The Testing Administrator of the University Testing Center will offer the Foreign Language Proficiency Examination throughout each term. Students must register in advance with that office to take the examination (PH 106).

4. The foreign language proficiency requirement does not apply to students seeking a second baccalaureate degree.

5. A student who is required and furnishes a passing TOEFL (Test of English as a Foreign Language) score for admission to the University is considered to have satisfied the requirements.

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

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

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

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

Gordon Rule Requirement: 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
2. Six hours of English coursework and six hours of additional coursework with significant college level writing

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.

General Education courses that apply to the Gordon Rule Writing Requirement:
ENC 1101 Composition I
ENC 1102 Composition II
LIT 2110 World Literature I
LIT 2120 World Literature II
AMH 2010 U.S. History: 1492-1877
AMH 2020 U.S. History: 1877-Present
EUN 2000 Western Civilization I
EUN 2001 Western Civilization II
HUM 2210 Humanistic Tradition I
HUM 2230 Humanistic Tradition II
WOH 2012 World Civilization I
WOH 2022 World Civilization II
BSC 2010C Biology I
Non-Gen Ed courses that also apply to the Gordon Rule Writing Requirement:  
All Courses with an AML, ENC, ENG, ENL, and LIT prefix

**PHI 3402** History of the South to 1865  
**PHI 3403** History of the South Since 1865  
**PHI 3441** History of the Frontier: Eastern America  
**PHI 3442** History of the Frontier: Western America  
**PHI 3541** U. S. Military History To 1900  
**PHI 3561** Women in American History I  
**PHI 3571** Black American History I  
**PHI 3800** Canadian History  
**PHI 4110** Colonial America, 1607-1763  
**PHI 4130** The Age of the American Revolution, 1763-1789  
**PHI 4140** Jeffersonian America  
**PHI 4160** Jacksonian America  
**PHI 4170** Civil War and Reconstruction  
**PHI 4201** The Gilded Age and Progressivism  
**PHI 4231** United States History: 1914-1939  
**PHI 4270** United States History: 1939-1960  
**PHI 4311** American Culture I  
**PHI 4313** American Culture II  
**PHI 4510** Rise of the United States to World Power, 1776-1914  
**AML 3031** American Literature I  
**AML 3041** American Literature II  
**ANT 3163** Mesoamerican Archaeology  
**ARH 4450** 20th Century Art  
**ARH 4800** Theory and Criticism of the Visual Arts  
**ASH 4404** China in 18th and 20th Centuries  
**ASH 4442** Modern Japan, 19th and 20th Centuries  
**BUL 3130** Legal and Ethical Environment of Business  
**DAN 3134** Dance History I  
**EAS 4700** Aerospace Design I  
**EGN 4412C** Interdisciplinary Design I 
**EML 4501C** Engineering Design I  
**EUAH 3122** Medieval Society and Civilization  
**EUAH 3142** Renaissance and Reformation  
**EUAH 3235** Romanticism and Realism  
**EUAH 3242** Modern Europe and the First World War  
**EUAH 3281** Second World War and Rebirth of Europe  
**EUAH 3411** Ancient Rome  
**EUAH 3451** History of Modern France  
**EUAH 3651** War and Society  
**EUAH 4284** Fascism and the Totalitarian Dictatorships  
**EUAH 4465** Hitler's Third Reich  
**EUAH 4500** English History to 1845  
**EUAH 4501** English History: 1845-1815  
**EUAH 4502** British History: 1815-Present  
**EUAH 4571** History of Russia to 1801  
**EUAH 4574** History of Russia: 1801-1917  
**EUAH 4576** History of Russia in the 20th Century  
**EUAH 4620** European Great Powers: 1815-1914  
**HIS 4150** History and Historians  
**HUM 3320** Contempory Multicultural Studies  
**HUM 3394** Representations of Place and Space  
**HUM 3401** Asian Humanities  
**HUM 3431** Ancient Humanities  
**HUM 3460** Latin American Humanities  
**HUM 3533** Moses, Jesus, and Muhammad  
**JOU 2100C** News Reporting  
**JOU 3101** Advanced Reporting  
**JOU 4181** Public Affairs Reporting  
**JOU 4300** Feature Writing  
**JOU 4306C** Critical Writing  
**JOU 4309** Freelance Writing  
**LAH 3130** Latin American History I  
**LAH 3200** Latin American History II  
**LAH 3400** History of Mexico and Central America  
**LAH 3470** History of the Caribbean  
**NUR 3365** Nursing Research  
**NUR 3805** Transitional Concepts in Nursing I  
**PAD 4034** The Administration of Public Policy  
**PAD 4720** Survey Research in Public Administration  
**PHI 3100** Ancient Philosophy  
**PHI 3200** Medieval Philosophy  
**PHI 3460** Modern Western Philosophy  
**PHI 3600** Contemporary Philosophy  
**PHI 3700** American Philosophy  
**PHI 3803** Philosophy and Creativity  
**PHI 3805** Contemporary Aesthetics  
**PHI 3941** Philosophy Pragmatic  
**PHI 4221** Philosophy of Language  
**PHI 4321** Philosophies of Embodiment: Mind/Body/Self  
**PHI 4341** Ways of Knowing  
**PHI 4604** Critical Theory  
**PHI 4931** Philosophy of Law  
**PHI 4930** Philosophy in the News  
**PMH 3401** Philosophy of Law  
**PHP 3781** African-American Philosophy  
**PHP 4782** Phenomenology  
**PLA 3155** Legal Writing  
**PLA 4935** Capstone Legal Issues  
**REL 3313** Religion in America  
**REL 3432** Roots of Western Mysticism  
**RTV 4403** Electronic Media, Technology, and Society  
**SOW 4232** Social Welfare Policies and Issues  
**SOW 4341** Micro-Level Roles and Interventions in Social Work  
**THE 2304** Script Analysis  
**TPA 4940** Technical Theatre/Design Internship  
**TPP 3310C** Directing for Theatre I  
**TPP 4940L** Theatre Internship  

College Level Academic Skills Test (CLAST)  
The College Level Academic Skills Test (CLAST) is designed to ensure that students have achieved communication and computation skills commensurate with successful completion of the lower-division coursework. All students seeking an Associate of Arts or baccalaureate degree from a state of Florida institution are required by the state of Florida to satisfy the CLAST requirement. There are several methods by which students may meet this requirement. Students who have completed 18 or more credit hours are eligible to take the CLAST. Students must complete the CLAST requirement prior to the end of their sophomore year in college. An appeal to continue enrollment may be submitted to the CLAST Petition Committee (PH 106). CLAST is given 3 times per year (February, June, and October) as established by the Commissioner of Education. Additionally, students may retake the English Language Skills, Reading, and/or Mathematics subtests of CLAST on computer at the University Testing Center. PH 106. A fee will be charged for the computer-adapted CLAST (CAT-CLAST). Information regarding preparation for the CLAST may be obtained from the Student Academic Resource Center (PH 115) at 407-823-5130.

Academic advising offices can answer questions students may have regarding the CLAST. Students with 60 or more credit hours who have not taken the CLAST may be restricted from future registration. Students who have not passed all four subtests of the CLAST may enroll in 36 credit hours of upper division credit. If the CLAST requirement has not been satisfied and the 36 hours of upper division credit have been registered for but not passed all four subtests of the CLAST may enroll in 36 credit hours of upper division credit. If the CLAST requirement has not been satisfied and the 36 hours of upper division credit have been registered for and/or earned, enrollment in future semesters/terms at UCF will be prohibited until the CLAST requirement has been met.

Transfer Students with more than 60 credit 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 the CLAST requirement has not been satisfied and the 36 hours of upper division credit have been registered for and/or earned, enrollment in future semesters/terms at UCF will be prohibited until the CLAST requirement has been met.

**CLAST Alternatives**
Beginning January 1, 1996, the following alternatives have been approved to meet statewide requirements of the Florida CLAST. Students who plan to major in a teacher education program must check with the College of Education to determine if they are eligible for alternatives. Additional Information regarding alternative criteria for meeting the CLAST requirement may be obtained from the University Testing Center (PH 106) or online at http://www.testing.sdes.ucf.edu.

Students with 60 or more credit hours who have not taken the CLAST may be restricted from future registration. Students who have not passed all four subtests of the CLAST may enroll in 36 credit hours of upper division credit. If the CLAST requirement has not been satisfied and the 36 hours of upper division credit have been registered for and/or earned, enrollment in future semesters/terms at UCF will be prohibited until the CLAST requirement has been met.
Correspondence Courses

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

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

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

Double Majors

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

Double Degrees/Second Baccalaureate Degree

Any UCF student desiring to obtain two or more baccalaureate degrees must meet the requirements for each degree and earn a minimum of 150 credit 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 credit hours for a second degree or more than 30 credit 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 as 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/session). Spring Registration begins following midterm for the Fall Semester, Summer and Fall Registration begins following the midpoint of the Spring semester. Class listings are available only online through the Class Schedule and Course Catalog Search at https://my.ucf.edu.

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

Web Enrollment Guide
The Web Enrollment Guide is published online each year. The Web Enrollment Guide provides the official "Academic Calendar" and describes the policies and procedures governing registration each term. The Web Enrollment Guide is available on the Registrar's Office 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 credit 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
Three Quarter Time 9-11
Half Time 6-8
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 14 credit hours for the Summer term and to 17 credit hours for the Fall and Spring terms. The department chair and college advising office must approve overloads. Overloads may be processed at the college advising offices.

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

Holds
A hold (negative service indicator) may be placed on a student’s records, transcripts, grades, diplomas or registration due to financial or other obligations to the University. Satisfaction and clearance of the hold is required before a release can be given. Students may check for holds on the myUCF system at https://my.ucf.edu under the Student Self Services link. 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 (as listed in the “Academic Calendar”). Add/Drop may be done using the myUCF system (https://my.ucf.edu) and in the college advising offices. After the Add/Drop deadline, 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. If a student drops courses for an entire semester with the intent of not returning to UCF, they must also drop courses for any future semesters. For withdrawal after the Add/Drop period, refer to the “Withdrawal Policy” of this Undergraduate Catalog.

Audit Registration
Audit students are those who desire to attend class(es) without receiving academic credit. Regular tuition and fees are assessed for audit registration. See the "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 (http://www.registrar.ucf.edu) as 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 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://www.registrar.ucf.edu. It is necessary to complete the required forms during the last hours of registration. Refer to the "Academic Calendar" or online at http://www.registrar.ucf.edu/calendar. Direct student expenses after the completion of registration include the campus ID card, vehicle registration and textbooks.

State of Florida & UCF Employee Employee Registration
State of Florida & UCF employee 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.registrar.ucf.edu/calendar. For waiver eligibility and application information, see “Tuition Waivers” within the “Financial Information” chapter of this Undergraduate Catalog.

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

State University System (SUS) Florida Transient Students
An SUS Transient Student is a student in good standing who is seeking a degree from one of the other Florida public universities (SUS) and desires to take courses with UCF. Students must complete the “SUS Transient Application Form” which is available at all SUS institutions and at http://www.facts.org. No application fee is required. The “SUS Transient Application Form” must be completed each term and should be mailed or delivered to the Registrar’s Office (MH 161), before the application deadline noted in the “Academic Calendar” online at http://www.registrar.ucf.edu/calendar. Students should visit the Registrar’s Office website at http://www.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 secure the “SUS Transient Application Form” from their college advising office, from the Registrar’s Office or
Students who seek late withdrawal because they are ill must apply 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 other departmental residency requirements.

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

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.registrar.ucf.edu/calendar. A student may withdraw from courses using myUCF at https://my.ucf.edu, or by visiting the Registrar’s Office (MH 161), certain college advising offices, or a Regional Campus records office. Students may withdraw by fax at 407-823-5652. Faxed requests must be received by 5:00 p.m. on the last day to withdraw and must include the student’s identification number, the course(s) to be dropped and his or her signature. Students should also mail a written request to the Registrar’s Office, P.O. Box 160114, Orlando, FL 32816-0114. This letter must be time-stamped or postmarked before the published withdrawal deadline and must include the student’s identification number, the course(s) to be dropped and his or her signature. Students seeking to withdraw in person must provide photo-identification. The official date of withdrawal is the date the University receives the withdrawal request. Requests received by mail are processed using the postmark as the official date of withdrawal. Withdrawing from classes may have financial aid, NCAA eligibility or international visa consequences. Students should seek appropriate advisement prior to withdrawing from a class. If a student withdraws from courses for the entire semester with the intent of not returning to UCF, they must also drop courses for any future semesters.

A student is not automatically withdrawn from a class for not attending, nor is a student automatically withdrawn 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. At the discretion 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 occur 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 approved, it is expected that the student not enroll at the University in the immediately subsequent semester, but will use that time to address the medical condition that necessitated the withdrawal. If a medical withdrawal is not approved, the request may be approved as a late withdrawal and grades of “WP” or “WF” will be recorded. A grade of “WF” will affect the calculation of the student’s grade point average.

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

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

Withdrawal and Academic Behavior Violations
Should an alleged violation of academic behavior standards arise before the withdrawal deadline in a term, the instructor shall notify the student in writing. The unit head will then notify the University Registrar and the Dean of the student’s school that the student shall not be withdrawn from the course in question. Only a written release from the instructor of the authorized party deciding a student appeal will permit withdrawal. However, if the student appeals the academic action and desires to withdraw from the course, the process shall be initiated by the student immediately in the normal University manner. Such withdrawal requests will be held in abeyance until a ruling on an appeal is obtained. If resolved in favor of the student, the withdrawal request will be processed at the time. The 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 (http://www.goldenrule.sdes.ucf.edu).

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 Per Semester Hour of Credit</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>4.00</td>
</tr>
<tr>
<td>A-</td>
<td>3.75</td>
</tr>
<tr>
<td>B+</td>
<td>3.25</td>
</tr>
<tr>
<td>B</td>
<td>3.00</td>
</tr>
<tr>
<td>B-</td>
<td>2.75</td>
</tr>
<tr>
<td>C+</td>
<td>2.25</td>
</tr>
<tr>
<td>C</td>
<td>2.00</td>
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<tr>
<td>C-</td>
<td>1.75</td>
</tr>
<tr>
<td>D+</td>
<td>1.25</td>
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<tr>
<td>D</td>
<td>1.00</td>
</tr>
<tr>
<td>D-</td>
<td>0.75</td>
</tr>
<tr>
<td>F</td>
<td>0.00</td>
</tr>
<tr>
<td>NC - No Credit</td>
<td>*</td>
</tr>
</tbody>
</table>

*Available only in CHM 1032, CHM 2045C, CHS 1440, ENC 1101, ENC 1102, MAC 1105H, MAC 1105, MAC 1114, MAC 2147, MAC 2233, MAC 2241, MAC 2253, MAC 2281, MAC 2281H, MAC 2311, MAC 2311H, and STA 2014C. In these classes NC replaces the use of D+, D and D-.
The Grade Point Average (GPA) is the average number of grade points per semester hour attempted. GPA is computed by dividing the total number of grade points assigned by the total number of credit hours attempted, less hours resulting from NC, W, WP, and I grades. The GPA for graduation requirement is a minimum of 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 credit 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 credit hours X 3.25 grade points = 9.75
   - Course #2: A- 3 credit hours X 3.75 grade points = 11.25
   - Course #3: A 4 credit hours X 4.00 grade points = 16
   - Course #4: B 3 credit hours X 3.00 grade points = 9
   
   = 13 credit hours = 46 total grade points

2) Divide the total number of grade points by the total number of credit hours earned that term: 46.00 total grade points / 13 credit hours = 3.54 GPA for that term.

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

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

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

Grade Change
A grade change is the change of any originally assigned grade to another grade, including grades of "I" and grades earned by administrative withdrawals. Grade changes other than medical withdrawals will be considered only during the semester immediately following the one in which the grade was assigned, except that grades assigned during the Spring semester may be changed during either the following Summer term or Fall semester. A change in grade must be approved by the dean of the college or school. A grade will not be changed after a degree has been conferred. The Registrar will change a student's academic status if necessitated by a change of grade, except in cases of academic suspension. If a student is suspended, the Admissions and Standards Committee may review the suspension and readmit the student if the Committee decides readmission is warranted.

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

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

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

Absences from classes for court-imposed legal obligations (e.g., jury duty and subpoenas) must be excused. The student may offer other sound reasons. When absences threaten a student's satisfactory completion of a course, the instructor may report the absence to the appropriate Dean of the student's college/school and may choose to follow up with 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 (FC 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 (FC 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 the Student Grievance Procedure, as listed in The Golden Rule.

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

Freshman: 0-29 credit hours.
Sophomore: 30-59 credit hours.
Junior: 60-89 credit hours.
Senior: 90 or more credit hours, prior to completion of baccalaureate requirements.

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

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

Other Student Classifications:

Auditor: A student registered for any credit course who is not seeking credit.
Co-op Student: A student enrolled in the Center for Cooperative Education and Applied Learning Program remains a registered student during all off-campus assignment semesters. Furthermore, there is no lapse in continuity in the co-op academic calendar: a co-op student either is on assignment or attending class during each term.

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

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

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

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

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

Academic Honors

President's Honor Roll Certificate (Full-Time Award)
The President’s Honor Roll Certificate (Full-Time Award) is awarded in recognition of scholastic honors to degree-seeking undergraduate students who maintain a 4.0 GPA, complete 12 or more hours, excluding satisfactory/unsatisfactory course work, and do not earn any "I," "U," "N," "NC" or "WF" grades during a given term.

President's Honor Roll Certificate (Part-Time Award)
The President’s Honor Roll Certificate (Part-Time Award) is awarded in recognition of scholastic honors to degree-seeking undergraduate students who maintain a 4.0 GPA in two consecutive part-time terms. The student must complete at least 15 hours, with no more than 11 in each consecutive term, excluding satisfactory/unsatisfactory course work, and not earn any "I," "U," "N," "NC" or "WF" grades during a term.

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

1. Attain an overall grade point average (this includes transfer credit) that is in the upper 10 percent of the range established by all students graduating in the same college/school during the previous two years;
2. Attain at least a 3.20 overall grade point average;
3. Honors awarded will be: Cum Laude for those students in the upper 2.5 percent; Summa Cum Laude for those students in the upper five percent, but not in the upper 2.5 percent; Magna Cum Laude for those students in the upper five percent, but not in the upper 2.5 percent.

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

Consult the Academic Honors list at http://www.roffice.ucf.edu/characrown/honorscutpoints.html for the most up-to-date UCF Honors minimum GPA requirements.

Diplomas are mailed 4 to 6 weeks after Commencement to the address indicated in the “Intent to Graduate” form.

Honors in the Major
Please see “Honors in the Major” in the The Burnett Honors College portion of this Undergraduate Catalog.

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://www.registrar.ucf.edu. Requests must be submitted no later than the last day of Late Registration and Add/Drop for the term/session in which the student has registered for the course being repeated. The following policies apply:

1. Grade Forgiveness is limited to two courses;
2. Grade Forgiveness may not be used twice for the same course;
3. Grade Forgiveness will only be awarded if the original and repeated courses both are taken at UCF;
4. All grades will remain on the student’s official transcript. The original course grade will be marked with a “T” to indicate that the course subsequently has been repeated, or a note describing the initial attempt, and the repeat course grade will be marked with an “R.” The original grade always will appear on the transcript but only the repeated course grade will be calculated into the GPA;
5. If it is determined that the student is ineligible for the Grade Forgiveness policy, neither a refund of fees nor automatic withdrawal from the course will be made;
6. If a student applies for Grade Forgiveness and later withdraws, or receives an “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. Grade forgiveness awarded within a bachelor’s degree from a Florida State System institution is not honored at UCF. UCF’s Grade Forgiveness policy may not be honored by other colleges, universities, professional schools, or national testing associations.

8. Due to the two-course limit, a student who has repeated two or more courses at a Florida Public Community College or State University and included those courses in the transfer of an AA or a specific statewide articulated AS degree will not be granted any Grade Forgiveness at UCF;

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

10. Grade Forgiveness is not retroactive and, therefore, may not be used for a course repeated before Fall 1981. If a student who repeated a course at UCF before 1981 and did not use the 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 only 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.

Repeated 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 myUCF at https://my.ucf.edu and on the transcript. The action is generated due to course completion. Changing a course grade does not necessarily change academic 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.”

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

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 possible jeopardy to academic goals and will also allow an opportunity to demonstrate acceptable performance.

Disqualified (First Jeopardy)
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. Disqualified students are normally expected to complete the Florida AA degree before petitioning for readmission. A disqualified student must submit an application for readmission support-

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

Readmission
A student must apply for readmission to the Registrar’s Office (MH 161) if:

1. the student has not enrolled at UCF for two consecutive semesters (not including the Summer term);
2. the student has been academically suspended from UCF;
3. the student failed to enroll or withdrew from all classes during the readmitted term; or,
4. the student has previously attended, or is currently enrolled at UCF, as “degree-seeking” and desires to pursue a second bachelor’s degree.

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

Readmission Following Non-Enrollment for Two Consecutive Semesters
The student must complete and submit the "Readmission Application Form," available at the Registrar’s Office or on the web at http://registrar.ucf.edu. If the student has attended another regional-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 and must apply to the college for readmission to the program. Plus or minus grades will transfer for course work earned Fall 2001 and after using UCF’s grade point system.

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

Any readmitted student whose UCF GPA is less than 2.0 at the time of the last enrollment at the University will be readmitted on “Academic Probation.”

All applicants seeking readmission who have attempted course work at another 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.

Readmission Following Suspension: Disqualification, with a Grade Point Deficiency of Less than 15 Grade Points
A student who has been academically disqualified by UCF (with a grade point deficiency less than 15 grade points) who has completed the two semester academic suspension period may petition for readmission by submitting the "Readmission Application Form" to the Registrar’s Office. For readmission purposes only, grade point deficiency is defined as the number of UCF credit hours earned with a “B” (3.0 GPA) grade that a student requires to raise his or her UCF grade point average to 2.0.

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

Academic Regulations and Procedures
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:

1. Submit a written statement indicating the reason for the previous academic difficulties and a plan for ensuring success in future terms:
   a. The written statement should be limited in length to one typed page; it must be signed and dated, and include the student's UCF Personal Identification Number (PID).
   b. A "Readmission Application Form" not accompanied by the required written statement will not be reviewed;
2. Contact the major's department/school/college to establish a plan to complete the program of study. The student must obtain the department/school/college's favorable recommendation of this plan in writing; and,
3. Submit to the Registrar's Office official transcripts from all other schools attended during suspension (if applicable).

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

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

### Readmission Following Suspension: Disqualification (with a Grade Point Deficiency of 15 or more Grade Points) or Exclusion
Students who are disqualified (with a grade point deficiency of 15 grade points or more) or who have been excluded are not eligible for readmission to the University. The Registrar's Office will deny readmission to ineligible students. A student denied readmission by the Registrar's Office may appeal that decision to the Admissions and Standards Committee. See 'Right of Appeal' below for details.

For readmission purposes only, grade point deficiency is defined as the number of UCF credit hours earned with a "B" (3.0 GPA) grade that a student requires to raise his or her UCF cumulative grade point average to 2.0. A student's grade point deficiency is calculated when the student applies for readmission.

### Dropping or Withdrawing During Readmitted Term
Disqualified or excluded students who drop or withdraw from all courses during the readmitted semester for whatever reason must apply for readmission.

### Limitations on the Number of Readmission Appeals
Disqualified students are limited to one appeal for an exception to University policy to the Admissions and Standards Committee during the disqualification period and one appeal per 12-month period following the disqualification period.

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

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

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

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

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

1. Complete the "Application for Readmission as an Exception to University Policy Form," available at the Registrar's Office (MH 161);
2. Prepare a written statement specifying the extenuating circumstances that led to their poor academic performance or academic dismissal.
   a. The written statement should be limited in length to one typed page; it must be signed and dated, and include the student's UCF Personal Identification number (PID).
   b. A "Application for Readmission as an Exception to University Policy" form not accompanied by the required written statement will not be forwarded to the Admissions and Standards Committee;
3. Provide documents which support and/or verify the extenuating circumstances (if applicable);
4. Supply official transcripts from all other schools attended during the suspension (if applicable);
5. Order one official copy of the UCF official transcript ($5 per copy). The Registrar's Office will forward this transcript to the Admissions and Standards Committee.
6. Submit ten stapled packets of appellant materials to the Registrar's Office (MH 161) by 12:00 p.m. (noon) Monday prior to the scheduled Admissions and Standards Committee meeting. The packet must contain the following documents, arranged in the following order:
   a. A completed "Application for Readmission as an Exception to University Policy Form";
   b. Written statement indicating the extenuating reasons for the previous academic difficulties and a plan for ensuring success in future terms;
   c. Any supporting documentation as directed by the college, school or other University personnel;
   d. Any additional supporting documentation (optional); and,
   e. SASS Degree Audit (obtained from myUCF at https://my.ucf.edu).

Excepting students who have not completed the required suspension period, the appellant will be afforded the opportunity to personally...
Academic Amnesty Program
Effective Fall 2004, the Academic Amnesty Program provides undergraduates who are not eligible for readmission for academic reasons the opportunity to readmit to UCF after five or more years of separation. This program allows the student to nullify up to two consecutive terms worth of UCF coursework from his or her UCF grade point average. Students may not select specific courses within the two identified terms. If the student satisfactorily completes the Academic Amnesty Program, the University will remove from the student's UCF GPA all UCF coursework for which the student enrolled during the selected consecutive terms. While grades nullified by satisfactory completion of the Academic Amnesty Program are not used in calculating the student's UCF GPA, all coursework will remain part of the student's permanent record.

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

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

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


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

Name Changes
To change the legal name maintained on the student's official UCF record, the student must submit a completed "Change of Name" form and supporting documentation to the appropriate UCF office. Attach to the form a copy of a legal name change document (e.g., marriage certificate, divorce decree, etc.). Undergraduate students must submit the form to the Registrar's Office (MH 161). 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://www.registrar.ucf.edu.

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

Transcript Requests
Requests for official transcripts are made through the Registrar’s Office (in person, by mail, or by fax). "Transcript Request Forms" are also available on the Registrar’s Office website at http://www.registrar.ucf.edu. A student's academic record can be released only upon written authorization signed by the student.

Telephone and e-mail requests are not accepted. Transcripts cannot be released if the student is on hold due to a financial obligation to the University. Transcript requests must include the student's signature, full name, identification number, and the name and complete address of the person(s) or organizations to whom transcripts are to be sent. If final grades or degree statement are needed, indicate that the transcript request is to be held until all requested data are posted.

A $5 per transcript charge is assessed for each transcript request. Payment for official transcripts is required at the time of request and may be satisfied by cash, check or money order (made payable to UCF), credit card, or UCF Card. Requests received by mail must be accompanied by a check, money order, or credit card information (i.e., card type, card number, 3-digit Security Number, expiration date, and the name to which the card is registered.) Cash payments can be accepted only by the Cashier’s Office during that office's regular business hours. The UCF Card payment option is available only at the main Orlando campus and must be made in person at the Registrar’s Office (MH 161). Mail written requests for transcripts to: Registrar’s Office, Attn: Transcripts, P. O. Box 160114, Orlando, FL 32816-0114. For fax request information and payment procedures, refer to http://www.registrar.ucf.edu or call 407-823-3100. Transcripts may be sent electronically to other Florida public institutions. Requests require at least 2 business days to process. Transcripts not claimed within 30 days of printing will be discarded and must be reordered. A $5.00 per reordered transcript fee must be submitted with the reorder request. Grades are available from myUCF at https://my.ucf.edu.

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

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

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

1) Medical condition or serious illness preventing completion;
2) Death of an immediate family member;
3) Military service;
4) Other emergency circumstances or extraordinary conditions.

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

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

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

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

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

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

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

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

Family Educational Rights and Privacy Act (FERPA)
The procedures for protecting the confidentiality of student records are based on state regulations and the federal Family Educational Rights and Privacy Act of 1974. FERPA affords students certain rights with respect to their education records. They are:
1. The right to inspect and review the student's education records within 30 days of the day the University receives a written request for access. Students should submit to the University Registrar, dean, head of the academic department, or other appropriate official, written requests that identify the record(s) they desire to inspect. The University official will make arrangements for access and notify the student of the time and place where the records may be inspected. If the records are not maintained by the University official to whom the request was submitted, that official shall advise the student of the correct official to whom the request should be addressed;
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 current record is inaccurate or misleading. If the University decides not to amend the record as requested by the student, the University will notify the student of the decision and advise the student of his or her right to a hearing regarding the request for amendment. Additional information regarding the hearing procedures will be provided to the student when notified of theright to a hearing; and
3. The right to consent to disclosures of personally identifiable information contained in the student's education records, except to the extent that FERPA authorizes disclosure without consent. One exception that permits disclosure without consent is disclosure to school officials with legitimate educational interests. A school official is a person employed by the University in an administrative, supervisory, academic or research, or support staff position (including law enforcement unit personnel and health staff); a person or company with whom the University has contracted (such as an attorney, auditor, or collection agent); a person serving on the Board of Trustees; or a student serving on an official committee, such as a disciplinary or grievance committee, or assisting another school official in performing his or her tasks. A school official has a legitimate educational interest if the official needs to review an education record in order to fulfill his or her professional responsibility; and
4. The right to file a complaint with the U.S. Department of Education concerning alleged failures by a State University to comply with the requirements of FERPA. The name and address of the office that administers FERPA is:
   - Family Policy Compliance Office
   - U.S. Department of Education
   - 400 Maryland Avenue, SW
   - Washington DC, 20202-4605

Directory Information
FERPA authorizes the University to classify certain information concerning students as “directory information,” which means that it may be released to anyone upon request. In accordance with Florida Statutes Section 228.003, the University is required to release student directory information to independent vendors upon request. Directory information at UCF includes:
- name
- current mailing address
- telephone number
- date of birth
- major field of study
- dates of attendance
- enrollment status
- degrees and awards received
- participation in officially registered activities and sports
- 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...
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://www.registrar.ucf.edu/hea/.

Accelerated Education Opportunities

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

ADVANCED PLACEMENT (AP)

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<td>Spanish Language</td>
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<td>PHY 2048C</td>
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<td>Spanish Literature</td>
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<td>SCI Found 1</td>
<td>PHY 2048C</td>
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<td>SCI Found 1</td>
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<td>Statistics</td>
<td>STA 2023</td>
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<td>MAT Found 2</td>
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<td>MAT Found 2</td>
</tr>
<tr>
<td>Studio Art: Drawing Portfolio</td>
<td>ART 2200C</td>
<td>SCI Found 1</td>
<td>MAT Found 2</td>
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<td>MAT Found 2</td>
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<tr>
<td>Studio Art: 2-D Design Portfolio</td>
<td>ART 2210C</td>
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<tr>
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<td>SCI Found 1</td>
<td>AMH 2010 and 2020</td>
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<tr>
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<td>AMH 2010 and 2020</td>
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Test credit is applied according to the published policy at the time the credit is received and posted by the university.

For updated information, please visit http://www.registrar.ucf.edu/testcredit.html.

Advanced Placement Program (AP)

(see table below)

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. 3 credits) of introductory literature. A score of 4 or higher 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 non-aural subscores are 3 or higher.

MUT 1001 if composite score is 3 or higher
MUT 1111 and MUT 1241 if both aural and non-aural subscores are 3 or higher.

For more information, please visit http://www.registrar.ucf.edu/testcredit.html.
Academic Regulations and Procedures

semester (min. 3 credits) should be awarded for a score of 3 or higher.

AP Latin: Vergil LNW 2321
AP Latin: Latin Literature LNW 3700 (number unique to exam)

International Baccalaureate Program (see table below)

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 areas. The table below labeled “International Baccalaureate” provides information related to the International Baccalaureate program credit.

International Baccalaureate (all modern languages)
International Baccalaureate offers examinations in many languages and literatures at different levels: B, A2, and A1. Most students in

INTERNATIONAL BACCALAUREATE

<table>
<thead>
<tr>
<th>Exam</th>
<th>Score of 4</th>
<th>GEP Usage</th>
<th>Score of 7-5</th>
<th>GEP Usage</th>
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<td>Biology</td>
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<td>BSC 1050/1005L and BSC 2010C</td>
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<td>GEB 2011 and 2005</td>
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<td>SCI Found 1</td>
<td>CHM 1020/1020L and CHM 2045C</td>
<td>SCI Found 1</td>
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<td>CGS 1078</td>
<td>MAT Found 2</td>
<td>CGS 1078 and 1900</td>
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<tr>
<td>Design Technology</td>
<td>ETI 1410</td>
<td>MAT Found 2</td>
<td>ETI 1410 and 1906</td>
<td>SCI Found 2</td>
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<tr>
<td>Economics</td>
<td>ECO 1000</td>
<td>SCI Found 1</td>
<td>ECO 2013 and 2023</td>
<td>SCI Found 1</td>
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<tr>
<td>Ecosystems and Societies</td>
<td>EVR 1017</td>
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<td>EVR 1017 and 1906</td>
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<td>English A1</td>
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<td>COM Found 1</td>
<td>ENC 1101 and 1102</td>
<td>SCI Found 1 and 2</td>
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<td>Environmental Systems</td>
<td>ISC 1050</td>
<td>SCI Found 2</td>
<td>ISC 1050 and 1906</td>
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<tr>
<td>Film Studies</td>
<td>FIL 1001</td>
<td>CUL and HIS Found 2</td>
<td>FIL 1001 and 1002</td>
<td>CUL and HIS Found 2</td>
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<tr>
<td>French</td>
<td>FRE 1121</td>
<td>MAT Found 1</td>
<td>FRE 1121 and 2200</td>
<td>SCI Found 2</td>
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<tr>
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<td>SCI Found 1</td>
<td>MAT 1202 and 1209</td>
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<td>GEA 1000</td>
<td>SCI Found 1</td>
<td>GEO 1200 and 1400</td>
<td>SCI Found 2</td>
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<tr>
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<td>GER 1121 and 2200</td>
<td>SCI Found 2</td>
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<td>CUL &amp; HIS Found 1</td>
<td>WOH 1100 and WOH 1999</td>
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<td>Islamic History</td>
<td>ASH 1906 (3 credits)</td>
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<td>ASH 1906 (6 credits)</td>
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<td>Latin</td>
<td>LAT 2230</td>
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<td>MAC 1105</td>
<td>SCI Found 1</td>
<td>MAC 1105 and 1140</td>
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<tr>
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<td>SCI Found 1</td>
<td>MAT 1033 and MGF 1106</td>
<td>SCI Found 1</td>
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<td>SCI Found 1</td>
<td>MAC 1147 and 2233</td>
<td>SCI Found 1</td>
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<tr>
<td>Music</td>
<td>MUL 2010</td>
<td>CUL &amp; HIS Found 2</td>
<td>MUL 2010 and HUM 1906</td>
<td>SCI Found 2</td>
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<tr>
<td>Philosophy</td>
<td>PHI 2010</td>
<td>SCI Found 1</td>
<td>PHI 2010 and 1906</td>
<td>SCI Found 2</td>
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<tr>
<td>Physics</td>
<td>PHY 1020C</td>
<td>SCI Found 1</td>
<td>PHY 2053C and 2054C</td>
<td>SCI Found 1</td>
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<td>Psychology</td>
<td>PSY 2012</td>
<td>SCI Found 2</td>
<td>PSY 2012 and 1906</td>
<td>SCI Found 2</td>
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<tr>
<td>Social Anthropology*</td>
<td>ANT 2410</td>
<td>SCI Found 2</td>
<td>ANT 2410 and 1906</td>
<td>SCI Found 2</td>
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<tr>
<td>Spanish</td>
<td>SPN 1121</td>
<td>SCI Found 2</td>
<td>SPN 1121 and 2230</td>
<td>SCI Found 2</td>
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<tr>
<td>Visual Arts</td>
<td>ART 1012</td>
<td>CUL &amp; HIS Found 2</td>
<td>ART 1012 and 1906</td>
<td>SCI Found 2</td>
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*This use for General Education applies only to I.B. credit.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

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<tr>
<th>Exam</th>
<th>Score of 50 for passing</th>
<th>GEP Usage</th>
<th>Comments</th>
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<td>Accounting, Financial</td>
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<td>Accounting, Principles of</td>
<td>ACG 1001</td>
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<tr>
<td>Algebra, College</td>
<td>MAC 1105</td>
<td>MAT Found 1</td>
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<tr>
<td>Algebra-Trigonometry, College</td>
<td>MAC 2147</td>
<td>MAT Found 1</td>
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<tr>
<td>American Government</td>
<td>POS 2041</td>
<td>SOC Found 1</td>
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<tr>
<td>American Literature</td>
<td>AML 1000</td>
<td>CUL &amp; HIS Found 2</td>
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<tr>
<td>Biology, General</td>
<td>BSC 1005</td>
<td>SCI Found 2</td>
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<tr>
<td>Business Law, Introduction to</td>
<td>BUL 1241</td>
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<tr>
<td>Calculus</td>
<td>MAC 2233</td>
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<tr>
<td>Chemistry, General</td>
<td>CHM 1020</td>
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<tr>
<td>Educational Psychology, Introduction</td>
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<td>SCI Found 2</td>
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<tr>
<td>English Composition with Essay</td>
<td>ENC 1101</td>
<td>CUL &amp; HIS Found 2</td>
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<tr>
<td>English Literature</td>
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<td>CUL &amp; HIS Found 2</td>
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<tr>
<td>French Language</td>
<td>FRE 1120</td>
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<td>German Language</td>
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<td>History of the United States I: Early Colonizations to 1877</td>
<td>AMH 2010</td>
<td>CUL &amp; HIS Found 1 or 3</td>
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<tr>
<td>History of the United States II: 1865 to Present</td>
<td>AMH 2020</td>
<td>CUL &amp; HIS Found 1 or 3</td>
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<tr>
<td>Human Growth and Development</td>
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<td>Humanities</td>
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<tr>
<td>Information Systems and Computer Applications</td>
<td>CGS 1077</td>
<td>MAT Found 2</td>
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<tr>
<td>Management, Principles of</td>
<td>MAN 2021</td>
<td>SOC Found 1</td>
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<tr>
<td>Marketing, Principles of</td>
<td>MAR 2011</td>
<td>MAT Found 1</td>
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<td>Microeconomics, College</td>
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<td>Microeconomics, Principles of</td>
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<td>SOC Found 1</td>
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<tr>
<td>Precalculus</td>
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<tr>
<td>Psychology, Introductory</td>
<td>PSY 2012</td>
<td>SOC Found 2</td>
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<tr>
<td>Sociology, Introductory</td>
<td>SYG 2000</td>
<td>SOC Found 2</td>
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<tr>
<td>Spanish Language</td>
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<tr>
<td>Trigonometry</td>
<td>MAC 1114</td>
<td>MAT Found 1</td>
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<tr>
<td>Western Civilization I: Ancient Near East to 1648</td>
<td>EUH 2000</td>
<td>CUL &amp; HIS Found 1 or 3</td>
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<tr>
<td>Western Civilization II: 1648 to Present</td>
<td>EUH 2001</td>
<td>CUL &amp; HIS Found 1 or 3</td>
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</tbody>
</table>
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)**

Students earn a minimum of one semester (3 credits) of language credit at the Elementary Language II or equivalent level (usually 1121) level for a score of 4. Students 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 language or literature for score of 4, 6 credits of language or literature for a score of 5-7.

**Language A1 (literature courses for native speakers; languages other than English)**

No direct equivalent. Content of Language A1 varies widely. Minimum 3 credits in literature for score of 4, 6 credits for score of 5-7.

**IB Latin**

LNW 3700. 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, 6 credits for score of 5-7 (all exams for diploma holders, higher level exams only for others).

**College Level Examination Program (CLEP) (see table on previous page)**

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

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

- Credit may be awarded in the CLEP subject examination area, provided the student: a) is not within 60 credit 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 exami-
Academic Regulations and Procedures

nation 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 62 for French, 63 for German, or 66 for Spanish) earns a minimum of two semesters (6 credits) of Elementary Language I and II or equivalent level (generally numbered 1120-1121). No literature credit should be awarded for CLEP foreign language exams.

Credit by Examination
Regularly enrolled (excludes transient and non-degree) undergraduate students at the University of Central Florida may obtain credit for specific University courses through departmental examinations. A student who believes he or she has acquired the knowledge and/or skills of a specific University course should consult his or her advisor and the chair of the department in which the course is offered to arrange for an examination. Degree credit will be awarded for those students at the University of Central Florida may obtain credit for CLEP foreign language exams.

Credit by Examination
Credit by Examination
Credit by Examination

DANTES SUBJECT STANDARDIZED TESTS (DSST)

<table>
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<tr>
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<th>Course Number</th>
<th>GEP Usage</th>
<th>Passing Grade Credit</th>
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<td>Art of the Western World</td>
<td>ARH 2000</td>
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<td>Astronomy</td>
<td>AST 2002</td>
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<td>Business Law II</td>
<td>BUL 2242</td>
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<tr>
<td>Business Math</td>
<td>QMB 1001</td>
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<td>Criminal Justice</td>
<td>CCI 1000</td>
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<tr>
<td>Environment and Humanity</td>
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<tr>
<td>Ethics in America</td>
<td>PHI 1630</td>
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<td>Fundamentals of College Algebra</td>
<td>MAC 1105</td>
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<td>Foundations of Education</td>
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<td>Fundamentals of Counseling</td>
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<td>General Anthropology</td>
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<tr>
<td>History of the Vietnam War</td>
<td>ANH 2059</td>
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<td>Human Resources Management</td>
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<td>Human/Cultural Geography</td>
<td>GEO 1400</td>
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<td>Intro to Computing</td>
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<td>Intro to World Religions</td>
<td>REL 2000</td>
<td>CUL and HIST Found 2</td>
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<td>Introduction to Business</td>
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<td>Introduction to Law Enforcement</td>
<td>CCI 1100</td>
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<td>Lifespan Developmental Psychology</td>
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<td>Management Information Systems</td>
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<td>Principles of Finance</td>
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<td>Principles of Financial Accounting</td>
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<td>Principles of Physical Science I</td>
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<td>Rise and Fall of the Soviet Union</td>
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<td>Technical Writing</td>
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<td>The Civil War and Reconstruction</td>
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EXCELSIOR COLLEGE EXAMINATIONS TABLE

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<td>Abnormal Psychology</td>
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<td>English Composition</td>
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<td>Ethics: Theory and Practice</td>
<td>PH 1630</td>
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<tr>
<td>Foundations of Gerontology</td>
<td>GEY 1000</td>
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<tr>
<td>Human Resources Management</td>
<td>MAN 1300</td>
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<tr>
<td>Life Span Developmental Psychology</td>
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<td>Microbiology</td>
<td>MCB 1000</td>
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<tr>
<td>Psychology of Adulthood and Aging</td>
<td>DEP 1401</td>
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</table>
The Office of International Studies (OIS) serves as a bridge that connects UCF students and faculty to diverse world communities. As a University level office, the OIS focuses on creating a trans-national understanding of the social, economic, cultural, environmental, and political realities of the 21st Century. The OIS, the Office of the Special Assistant to the President for Global Perspectives, the International Services Center and the Center for Multilingual, Multicultural Studies work together to provide a concerted effort to implement the university’s broader strategic plan for internationalization. The OIS mission is to promote, support, facilitate, advocate, and implement activities that lead to the internationalization of education and research at UCF. This is accomplished through: faculty development activities; internationalization of courses and programs; enhancement of international exchanges; promotion of international partnerships; and the identification and acquisition of external funding. The OIS assists in developing and processing agreements with institutions outside the United States. These agreements vary from protocolary statements of cooperation to specific agreements covering participation in theses and dissertation committees, student and faculty exchanges, and study abroad programs. The OIS provides templates, facilitates processing, and maintains agreement files.

Study Abroad Programs

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

UCF study abroad opportunities are a cooperative venture of academic departments and the Office of International Studies (OIS), and are designed to provide an exceptional learning experience, while allowing students to apply classroom theory to real-world situations. Some opportunities are open to all UCF students, while others have specific criteria. Here are some examples of short-term programs:

- **China**:i.
- **Europe**: Europe and Russia; Criminal Justice in Costa Rica and Russia; Nursing in Sweden, Education in the United Kingdom, Hospitality in France, and Art in Scotland.

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

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

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

**Experiential Learning, Undergraduate Studies**

**Director:** Sheri Dressler; Ferrell Commons, Suite 203; (407) 823-2667; [http://www.csel.ucf.edu](http://www.csel.ucf.edu)

Experiential Learning is an instructional department reporting to Undergraduate Studies and collaborates with Career Services in a joint venture called Career Services and Experiential Learning (CSEL). Its mission is: 1) to insure that quality experiential learning opportunities are available to all UCF students before graduation, 2) to provide excellent applied learning experiences for students and to support faculty in other academic departments in their efforts to do the same, 3) to create meaningful and productive educational partnerships with employers and community partners locally, nationally, and internationally.

Experiential Learning at UCF has received national recognition for its quality instruction and broad-based collaboration. It provides a menu of applied learning options to undergraduate and graduate students in all Colleges, resulting in over half the student body participating in experiential learning experiences each year. Students are encouraged to come to the Experiential Learning office any time before they want to participate to receive help in planning to include experiential learning in their academic program.

The Experiential Learning department directly delivers cooperative education (co-op) and internship courses and facilitates and supports department faculty in the development and provision of internship and service-learning courses. It also administers the Florida Work Experience Program (FWEP) through which additional paid, major-related experiences are created for students with documented unmet financial need. All of these options provide major-related, real-world experience off-campus to assist students to apply classroom theory and gain the personal, academic and professional competencies they need to be work-ready and contributing community members upon graduation.
Special Academic Programs and Research Institutes

Co-op opportunities are available to students on all campuses in all Colleges. They are always major-related, paid, and multiple semesters with progressively responsible duties. They are either part-time around class schedules or full-time alternating semesters, structured for learning with reflection and evaluation, designated on transcripts, and available for credit when it will count in a student’s academic program.

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

Service-Learning is a means of incorporating experiential learning into academic courses so that students learn course content through service experiences. Through this process, students gain an appreciation for civic engagement while using course content in a real-world environment. Courses using this approach are designated with SL in course listings so that students can choose to participate in this type of learning experience. A service-learning certificate, noted on a student’s transcript, is available for students who complete four service-learning courses.

Current co-op and internship opportunities through Experiential Learning, requirements for participation, and information and materials for Service-Learning are all listed on our website under the Experiential Learning link. To participate in co-op or internships, students complete an application online any time during the year, preferably during the semester before they want to participate to allow time to obtain an appropriate learning experience. Once students apply online, they meet with Experiential Learning faculty in the Experiential Learning office to obtain opportunities and register for Experiential Learning courses.

Division of Continuing Education

Assistant Vice President/Director: J. Patrick Wagner; University Tech Center, 12565 Research Parkway, Suite 390, Orlando, FL 32826; 407-822-0260; Fax: 407-822-0244
http://www.ce.ucf.edu

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

Center for Multilingual Multicultural Studies

Director: Myrna Creasman; Bldg #81, P.O. Box 163177, Orlando, FL 32816-3177; 407-823-5515; Fax: 407-823-5465
http://www.cmms.ucf.edu

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 on English Language Program, Accreditation, 700 S. Washington Street, Suite 200, Alexandria, VA 22314, (703) 518-2480.

Off-Campus College Credit Programs

Assistant Vice President/Director: J. Patrick Wagner; University Tech Center, 12565 Research Parkway, Suite 390; 407-822-0260; Fax: 407-822-0244

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

The Biomolecular Science Center

Director: P.E. Kolattukudy, BL 136, 407-823-1312; Fax 407-823-0956
http://www.biomed.ucf.edu

The mission of this University-wide interdisciplinary academic center is to establish vibrant research and training programs under the general theme, “Molecular and Genomic Bases of Diseases and Therapeutics.” Center research is focused in four areas: cancer, cardiovascular disease, infectious disease and neurodegenerative disease. See Burnett College of Biomedical Sciences section or visit www.biomed.ucf.edu for more information.

Center for Applied Human Factors in Aviation (CAHFA)

Director and Chief Scientist: Mustapha Mouloua; PH 302; 407-823-2910; Fax: 407-823-5862
http://www.cahfa.ucf.edu

The Center for Applied Human Factors in Aviation (CAHFA) has as its mission the enhancement of safety in the nation’s airspace system through applied human factors research, systems design, and training strategies. Chartered in 1990, CAHFA is a research consortium established between UCF and Charter partner Embry-Riddle Aeronautical University, Daytona Beach, Florida. CAHFA’s professional staff maintains offices on both campuses. The complimentary strengths of the two universities are combined to create a research resource that is without peer for solving aeronautical human factors problems. CAHFA research initiatives are targeted to significantly reduce human factors related accidents and incidents by determining the efficacy of and by developing strategies for achieving improvements in human performance.

Center for Economic Education

Director: Robert L. Pennington; BA2 303E; 407-823-2640

The Center for Economic Education strives to increase public knowledge of economic principles and their applications in daily life. Researchers at the Center develop, collect, and distribute economic educational materials. They also consult with and provide instruction to area schools (K-12), community colleges, and community organizations. Instruction focuses on the principles of economics and their use in making rational economic decisions. Affiliated with the National Council on Economic Education, the Center also conducts research in economic education.

Dick Pope, Sr. Institute for Tourism Studies

Director: Abraham Pizam; 9907 Universal Blvd., Suite 231-A Orlando, FL 32819; 407-903-8010

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, state, and 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, resorts, restaurants and food-service establishments, ground and air transportation companies, travel agencies and tour operators, and other related businesses. The Institute devotes significant efforts to educating the public about the tourism industry in Florida and internationally, and about its contribution to the social and economic welfare of the community at large.
Executive Development Center  
Associate Dean: Jai Ganesh; BA 237; 407-823-2446

The University of Central Florida College of Business Administration is proud to serve as a partner in executive education to the local, state, national, and international business communities. The Executive Development Center was established to provide leading executive education programs to both individuals and organizations.

The Center helps professionals from all industries become more dynamic leaders, more effective managers, and more valuable team members. Corporations benefit from participating in executive education programs by developing more productive and resourceful workforces that can meet the challenges of today's changing marketplace and tomorrow's opportunities.

The Center serves as a valuable resource in executive training and development by offering programs that address critical issues for managers and business leaders. These programs are offered in a variety of formats suitable for any individual or corporation through:

- Executive MBA Program;
- Professional MBA Program;
- Customized corporate programs;
- Conference services;
- Public enrollment programs;
- International seminars and exchange programs;

The UCF Executive Development Center has a strong commitment to the business community. Both small and large organizations find our programs to be contemporary, challenging, and effective.

Florida-Canada Linkage Institute  
Interim Director: Angel Cardec; 407-882-2300; Fax: 407-275-4386; E-mail: fcli@mail.ucf.edu

The Florida-Canada Linkage Institute was created by the Florida legislature to foster educational, commercial, cultural and social exchanges between Canada and the State of Florida. The Institute, funded and administered through the Office of Academic Affairs and located within the Office of International Studies, promotes international collaboration through expanded public/private dialogues on cooperative research and technical assistance, cultural exchanges, the enhancement of language training, and student/faculty exchange programs. The institute administers the Out of State Tuition Fee Exemptions Program that is available for Canadian students to study in Florida state universities and community colleges for the same tuition and fees as Florida residents. The awards are limited to 25 FTE and are competitive.

Florida-Eastern Europe Linkage Institute  
Interim Director: Angel Cardec; 407-882-2300; Fax: 407-275-4386; E-mail: eiel@mail.ucf.edu

The Florida-Eastern Europe Linkage Institute was created by the Florida legislature to 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 within the Office of International Studies, promotes international collaboration through expanded public/private dialogues on cooperative research and technical assistance, cultural exchanges, the enhancement of language training, and student/faculty exchange programs. The institute administers the Out of State Tuition Fee Exemptions Program that is available for students from central and east European countries to study in Florida state universities and community colleges for the same tuition and fees as Florida residents. The awards are limited to 25 FTE and are competitive.

The John Scott Dailey Florida Institute of Government at the University of Central Florida  
Director: Marilyn Crotty; 407-235-3960, Fax 407-317-7750

The Institute of Government, an affiliate of the John Scott Dailey Florida Institute of Government, is part of the College of Health and Public Affairs and provides training and technical assistance to state and local government, governmental associations, and non-profit organizations. Training workshops, certification programs, conferences, seminars, applied research projects, citizen surveys, strategic planning, and organizational development programs are among the services offered by the Institute.

Florida Solar Energy Center (FSEC)  
Director: James Fenton, 1679 Clearlake Road, Cocoa FL 32922-5703; 321-638-1007; Fax: 321-638-1010.

The Florida Solar Energy Center is the largest and most active state-supported alternative energy research institute in the United States. Its facilities are located on the Cocoa campus of UCF at Brevard Community College. FSEC has gained national and international respect for its programs on photovoltaics, hydrogen from renewables, pollutant detoxification, photocatalytic processes, energy-efficient buildings, advanced cooling technologies, and solar thermal systems. It operates the only certified solar equipment testing program in the country. The yearly value of FSEC's external contracts exceeds its state support by a factor of two. The Center conducts seminars and workshops for teachers and professionals statewide, and its technical library boasts one of the nation's most extensive holdings on solar and alternative energy. FSEC's International Renewable Energy Training and Education Center is providing educational programs for government and industry leaders around the world.

Florida Space Institute (FSI)  
Acting Director: Jaydeep Mukherjee; FSI, Kennedy Space Center, FL 32899; 321-452-9834; Fax: 321-452-4842; E-mail: fsiccas@mail.ucf.edu
http://fsi.ucf.edu

The Florida Space Institute provides unique, practice-based educational opportunities, combined with resources to design, build, and test small satellites, instruments, and payloads. Using these resources FSI supports member schools and other educational and commercial customers, providing opportunities for student involvement in real-world space programs. FSI is a State of Florida Type I Institute headquartered at UCF, but has 10 member schools statewide. Because FSI is located at the Space Center and not on the UCF campus, the programs are embedded within the existing space environment of the Center, at both the NASA/Kennedy Space Center and the Cape Canaveral Air Force Station locations. Typical research areas include small satellite innovations, broadband optical communications, electric propulsion, instrumentation development, space weather, and space power, driving engineering solutions with science requirements.

In addition to traditional classrooms, FSI has complete laboratories for supporting research projects, a satellite ground station, and a launch site for launching sub-orbital rockets to space. Additionally, we utilize the Space Center as a laboratory to perform field experiments. This combination of capabilities provides students with an unequalled opportunity to obtain an education with experience, through practice-based teaching, in the areas of space science and engineering.

Institute for Simulation and Training (IST)  
Director: Randall Shumaker; 3100 Technology Pkwy, Orlando, FL 32826-0544; 407-862-1300; Fax: 407-882-1335; E-mail: shumaker@ist.ucf.edu
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 to research new ways to use simulation, improve human-agent interaction, and educate the next generation of scientists and professionals. In April 1985 a State of Florida resolution recognized the institute as part of a Center of Excellence for Simulation and Training.

IST laboratories, work space, and administrative offices occupy major portions of three buildings 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 Orlando), Marine Corps Program Manager for Training Systems, 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 Central Florida High Tech Corridor traversing the state from Tamp 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 and provides 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:

- Special Academic Programs and Research Institutes
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, business, and related disciplines. The institute annually employs more than 50 graduate and undergraduate students in a variety of research and support positions. For many outstanding graduates, IST is a launching pad to a career in the simulation industry. A significant number of existing professionals, both in government and industry, enroll in modular and simulation graduate programs to continue their advanced education and hone their research skills.

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, the University of South Florida, and University of Florida, and with considerable participation from industry and economic development organizations, IST promotes economic growth in the modeling and simulation industry throughout the Central Florida High Tech Corridor.

**Institute of Statistics and Data Mining**

*Director: Nizam Uddin; CC 208; 407-823-2289.*

The Institute of Statistics and Data Mining provides statistical consulting support to graduate students, staff, and faculty members in all stages of their research projects. The Institute’s services include, but are not limited to, design of experiments and surveys, determination of sample sizes, formulation of hypotheses, selection of appropriate analysis using a variety of software packages, interpretation and evaluation of statistical results, preparation of statistical reports, and writing statistical methods and data analyses sections of research grant proposals as well as data management through the data mining lab. The Institute’s faculty members are available to work as co-investigators or statistical consultants on clients’ grant proposals. The Institute also provides statistical support to various government agencies and private organizations. For a brief description of consulting activities of the Institute and research expertise of faculty members, please visit [http://dms.stat.ucf.edu/](http://dms.stat.ucf.edu/). The Institute offers one free consulting session to Ph.D. graduate students. The consulting service is available to faculty members working on funded projects for a modest fee. Associate Professor Nizam Uddin (nuddin@mail.ucf.edu) is the Director of the Institute. However, other faculty members from the Department of Statistics and Actuarial Science are available for assisting clients.

**Institute for Technical Documentation**

*Director: Karla Saari Kitalong; CNH 301C; 407-823-6416.*

The Institute for Technical Documentation is a research and teaching center within the English Department. Its activities include technical communication consultation, usability evaluation and testing, and the development of communication training programs for clients. The Institute’s experienced faculty and established facilities afford a strong rapport with local businesses and the capacity to assist in a wide variety of technical documentation projects and services.

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**Oak Ridge Associated Universities (ORAU)**

*President and ORAU Councilor for University of Central Florida: John C. Hitt; ORAU Corporate Secretary: Monnie E. Champion; 865-579-3306 [http://www.orau.org]*

Since 1989, students and faculty of University of Central Florida have benefited from its membership in Oak Ridge Associated Universities (ORAU). ORAU is a consortium of 96 colleges and universities and a contractor for the U.S. Department of Energy (DOE) located in Oak Ridge, Tennessee. ORAU works with its member institutions to help their students and faculty gain access to federal research facilities throughout the country; to keep its members informed about opportunities for fellowship, scholarship, and research appointments; and to organize research alliances among its members.

Through the Oak Ridge Institute for Science and Education (ORISE), the DOE facility that ORAU operates, undergraduates, graduates, postgraduates, as well as faculty enjoy access to a multitude of opportunities for study and research. Students can participate in a number of programs covering a wide variety of disciplines including business, earth sciences, epidemiology, engineering, physics, geological sciences, pharmacology, ocean sciences, biomedical sciences, nuclear chemistry, and mathematics. Appointment and program length range from one month to four years. Many of these programs are specially designed to increase the numbers of underrepresented minority students pursuing degrees in science- and engineering-related disciplines. A comprehensive listing on these programs and other opportunities, their disciplines, and details on locations and benefits can be found in the ORISE Catalog of Education and Training Programs, which is available at [http://see.orau.org](http://see.orau.org), or by calling either of the contacts above.

ORAU’s Office of Partnership Development seeks opportunities for partnerships and alliances among ORAU’s members, private industry, and major federal facilities. Activities include faculty development programs, such as the Ralph E. Powe Junior Faculty Enhancement Awards, the Visiting Industrial Scholars Program, consortium research funding initiatives, faculty research and support programs as well as services to chief research officers.

**Small Business Development Center (SBDC)**

*Interim Director: Eunice Choi; Disney Entrepreneur Center, 315 E. Robinson St., Suite 100, Orlando FL 32801; 407-420-4850; E-mail: echoi@bus.ucf.edu [http://www.bus.ucf.edu/sbdc]*

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 eight counties in the Central Florida area including four Sub-Centers located at Daytona Beach Community College, Brevard Community College, Seminole Community College, and Kissimmee Chamber of Commerce. Assistance is provided through workshops and individual counseling in the following areas:

- Start-Up
- Finance
- Operations
- Technology
- Business Plan Development

Additional programs provide assistance to clients in the areas of government contracting and international trade.
Associate of Arts Degree
University of Central Florida students who satisfactorily complete 60 credit 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 credit hours in residence at UCF. In addition, any student who desires to receive an A.A. degree must have satisfied the Gordon Rule requirement and passed the College Level Academic Skills Test.
The Associate of Arts degree is awarded only upon application. The application form may be obtained in Academic Services, MH 210 and completed by the end of the first week in the term in which the Associate of Arts degree is to be awarded. A student may not be enrolled as a transient student in another institution during the term in which the Associate of Arts degree is to be awarded. An Associate of Arts degree will not be awarded in the same term that the baccalaureate degree is to be awarded or in any term following the completion of the baccalaureate degree.

Baccalaureate Degrees
The University offers the degrees of Bachelor of Applied Science, Bachelor of Arts, Bachelor of Arts in Business Administration, Bachelor of Engineering Technology, Bachelor of Fine Arts, Bachelor of Science, Bachelor of Science in Business Administration, Bachelor of Science in Education, Bachelor of Science in Engineering, Bachelor of Science in Nursing, and Bachelor of Science in Social Sciences. These degrees are available in the following Colleges with majors or areas of specialization as indicated:

Burnett College of Biomedical Sciences
Bachelor of Science (B.S.)
Majors: Molecular Biology and Microbiology, Biotechnology, Medical Laboratory Sciences

College of Arts and Humanities
Bachelor of Arts (B.A.)
Majors: Art, Digital Media, English, Film, Modern Languages Combination, French, History, Humanities, Music, Philosophy, Religious Studies, Spanish, Theatre
Bachelor of Fine Arts (B.F.A.)
Majors: Art, Film, Theatre
Bachelor of Music Performance (B.M.)
Bachelor of Music Education (B.M.E.)
Bachelor of Science (B.S.)
Majors: Digital Media, Photography

College of Business Administration
Bachelor of Science in Business Administration (B.S.B.A.)
Majors: Accounting, Economics, Finance, General Business Administration, Management, Management Information Systems, Marketing, Real Estate
Bachelor of Arts
Major: Economics
Bachelor of Arts in Business Administration (B.A.B.A.) (Regional campuses only)

College of Education
Bachelor of Science (B.S.)

College of Engineering and Computer Science
Bachelor of Science (B.S.)

College of Health and Public Affairs
Bachelor of Arts (B.A.)
Majors: Communication Sciences and Disorders, Criminal Justice, Legal Studies, Public Administration
Bachelor of Science (B.S.)
Majors: Cardiopulmonary Sciences, Communication Sciences and Disorders, Criminal Justice, Health Information Management, Health Sciences-Athletic Training, Health Sciences-Pre-Clinical Allied Health Track, Health Services Administration, Legal Studies, Public Administration, Radiologic Sciences
Bachelor of Social Work (B.S.W.)
Major: Social Work

College of Nursing
Bachelor of Science in Nursing (B.S.N.)
Major: Nursing

College of Sciences
Bachelor of Arts (B.A.)
Majors: Advertising/Public Relations, Anthropology, Interpersonal/Organizational Communication, Journalism, Political Science, Radio-Television, Social Sciences, Sociology
Bachelor of Science (B.S.)
Majors: Actuarial Science, Biology, Chemistry, Forensic Science, Mathematics, Physics, Psychology, Statistics

Rosen College of Hospitality Management
Bachelor of Science (B.S.)
Majors: Event Management, Hospitality Management, Restaurant and Foodservice Management

Office of Undergraduate Studies
Bachelor of Applied Science (B.A.S.) (Regional campuses only)

Office of the Vice Provost
Bachelor of Arts (B.A.)
Major: Interdisciplinary Studies
Bachelor of Science (B.S.)
Majors: Interdisciplinary Studies
<table>
<thead>
<tr>
<th>College Awarding Minor</th>
<th>Name of Minor</th>
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<tbody>
<tr>
<td>Burnett College of</td>
<td>Molecular Biology and Microbiology</td>
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<td>Molecular Biology and</td>
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<tr>
<td>Biomedical Sciences</td>
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<tr>
<td>College of Arts and</td>
<td>African American Studies, American Studies, Art History, Art Studio, Asian</td>
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<td>Humanities</td>
<td>Studies, Cognitive Sciences, Community Arts, Dance, Digital Media, English,</td>
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<td></td>
<td>Film - Cinema Studies, French, German, History, Humanities, Italian, Judaic</td>
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<td>Studies, Latin American Area Studies, Middle Eastern Studies, Music, Philosophy,</td>
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<td>Philosophy, Religion and Popular Culture, Religious Studies, Spanish, Theatre,</td>
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<td>Women's Studies</td>
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<td>College of Business</td>
<td>Accounting, Business Administration (for non-Business Administration majors),</td>
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<td>Administration</td>
<td>Economics (for non-Business and Business majors), Entrepreneurship, Finance,</td>
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<td>International Business, Management Information Systems, Marketing (for Business</td>
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<td></td>
<td>and non-Business majors), Operations Management/Enterprise Systems, Real</td>
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<td></td>
<td>Estate (for Business and non-Business Majors), Sport Business Management</td>
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<td></td>
<td>(for Business Majors Only)</td>
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<tr>
<td>College of Education</td>
<td>Coaching, Early Childhood Education, Exceptional Education, Fitness Training,</td>
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<td></td>
<td>Recreation, Technical Education and Industry Training</td>
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<td>College of Engineering</td>
<td>Aerospace Studies, Computer Science, Engineering Leadership, Information</td>
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<td>and Computer Science</td>
<td>Technology, Interdisciplinary, Interdisciplinary Informatics Technology,</td>
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<td>Military Science, Secure Computing and Networks, Space Studies, Intelligent</td>
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<td>Robotic Systems, Technology and Society</td>
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<td>College of Health and</td>
<td>Aging Studies, American Humanics, American Sign Language and Deaf Studies,</td>
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<td>Public Affairs</td>
<td>Communication Sciences and Disorders, Criminal Justice, Emergency Management</td>
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<td></td>
<td>and Homeland Security, Health Information Management, Health Sciences, Health</td>
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<td>Services Administration, Legal Studies, Public Administration, Urban and</td>
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<td>Regional Planning</td>
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<tr>
<td>College of Sciences</td>
<td>Anthropology, Anthropology in Multicultural Studies, Astronomy, Biology,</td>
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<td>Chemistry, European Studies, International and Global Studies, Interpersonal</td>
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<td>Communication, Magazine Journalism, Mass Communication, Mathematics, North</td>
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<td>American Indian Studies, Physics, Political Science, Political Science/Prelaw,</td>
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<td>Psychology, Social Sciences-Interdisciplinary, Sociology, Statistics</td>
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<td>Rosen College of</td>
<td>Hospitality Management</td>
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<td>Hospitality Management</td>
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<td>Office of the Vice</td>
<td>Environmental Studies</td>
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<td>Provost</td>
<td>World Comparative Studies</td>
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<tr>
<td>Minors are authorized</td>
<td>only for certification with baccalaureate degrees. Minors must be certified</td>
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<td>only for certification</td>
<td>at the same time as the student's baccalaureate degree. Unless a second</td>
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<td>with baccalaureate</td>
<td>baccalaureate degree is earned, certification will not be made at a later</td>
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<td>degrees. Minors must</td>
<td>time even if additional courses have been completed. A student may declare a</td>
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<td>be certified at the</td>
<td>minor up to but no later than the submission of the “Intent to Graduate Form.”</td>
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<tr>
<td>same time as the student</td>
<td>Students are strongly urged to declare a minor as early as possible. Contact</td>
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<tr>
<td>'s baccalaureate degree</td>
<td>the student support office of the college offering the minor.</td>
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</table>

**Graduate Programs**

See description at the beginning of each college section. For further information on a particular program or graduate fellowships, contact the departmental office in the respective college or see the Graduate Catalog: [http://www.graduate.ucf.edu/catalog/](http://www.graduate.ucf.edu/catalog/).
Burnett College of Biomedical Sciences

Dean: P.E. Kolattukudy; BL 136; 407-823-1312; Fax 407-823-0956

Associate Dean: Roseann White; HPA II 335J; 407-823-5932

The Burnett College of Biomedical Sciences houses the Department of Molecular Biology and Microbiology (including the Medical Laboratory Sciences program and the Office of Student Services and Advisement), the Biomedical Sciences Center, and the Pre-Health Professions Advisement Office.

The Burnett College of Biomedical Sciences became the 9th college in UCF on August 10, 2004, with the goal of building a nationally and internationally recognized biomedical research and education enterprise. The college has over 1,600 undergraduates and 80 graduate students who, along with faculty, conduct research to find novel treatments for cancer, cardiovascular diseases, neurodegenerative diseases and infectious diseases.

Programs and Degrees

<table>
<thead>
<tr>
<th>Program</th>
<th>Degree</th>
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<tbody>
<tr>
<td>Molecular Biology and Microbiology</td>
<td>B.S., M.S., Minor</td>
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<tr>
<td>Biotechnology</td>
<td>B.S.</td>
</tr>
<tr>
<td>Medical Laboratory Sciences</td>
<td>B.S.</td>
</tr>
<tr>
<td>Biomedical Sciences</td>
<td>Ph.D.</td>
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</tbody>
</table>

Department of Molecular Biology and Microbiology

Chair: P.E. Kolattukudy; BL 136; 407-823-1312

Assistant Chair: Roseann White; HPA II 335J; 407-823-2914

Undergraduate Coordinator: Dorilynn Hitchcock; HPA II 335A; 407-823-5932

Graduate Coordinator: Karl Chai; BL 323; 407-823-6122

Faculty: E. Bossy-Wetzel; K. Chai; D. Chakrabarti; R. Chakrabarti; S. Chan; J. Cheng; A. Cole; H. Danieli; S. Ebert; C. Fernandez-Valle;
The Department of Molecular Biology and Microbiology offers a Bachelor of Science degree, a Master of Science degree and a Minor in Molecular Biology and Microbiology. The department also offers a Bachelor of Science degree in Medical Laboratory Sciences and a new Bachelor of Science degree in Biotechnology. The Molecular Biology and Microbiology prepares students for entry into any professional schools in health sciences, such as medicine, veterinary, pharmacy, podiatry, physician assistant, physical therapy, optometry, chiropractic and dentistry. The programs also prepare students entering the technical workforce in biotechnology, pharmaceutical and/or any other medical technology industry. The Department is a major partner in the interdisciplinany PhD program in Biomedical Sciences.

Program in Molecular Biology and Microbiology

The Core Curriculum in the baccalaureate program, with its broad and thorough background in the physical, computational, and life sciences, provides a solid foundation in concepts and applications of modern biology to contemporary and future problems. The Restricted Electives component of the baccalaureate program allows each student to enhance his/her academic preparation in areas of morphological, clinical, analytical or investigative applications. Students are also encouraged to gain research experience and exposure to specialized topics not taught in formal courses through the mechanism of directed research and independent study contracts with selected faculty. This thorough, but flexible, program provides an excellent preparation for industry, graduate education, and for the four-year health science professions (medicine, veterinary, pharmacy, podiatry, physician assistant, physical therapy, optometry, chiropractic and dentistry).

Degrees: Molecular Biology and Microbiology (BS, MS)

Preprofessional Track (BS)

Molecular Biology and Microbiology UCF/USF Accelerated Medical School Program (BS)

Students must apply for this program through the Burnett Honors College prior to attending UCF. Eligibility requirements include FL residency, unweighted high school GPA of 3.7 and SAT score of 1300 or ACT score of 29. More information about the admission process can be found in the catalog under: Burnett Honors College: UCF/USF Accelerated Medical School Program.

Students desiring admission to USF College of Medicine [USFCOM] through the accelerated program will meet all USFCOM admission requirements and obtain a BS in Molecular Biology and Microbiology after completion of first year of the medical school curriculum.

Program in Biotechnology

Director: Henry Daniell, BL 336, 407-823-5932

To meet the demand for highly trained scientists in the biotechnology workforce, the Burnett College of Biomedical Sciences now offers a Bachelor of Science degree in Biotechnology. This new degree program prepares students to function in the industrial biotechnology/biomedical environment, providing them with more "hands on" laboratory experiences and opportunities for research. These students will be provided an industrial perspective and an understanding of product development at the same time as they are trained in the molecular techniques required for such development.

Degrees: Biotechnology (B.S.)

Tracks: None

Minors: None

Program in Medical Laboratory Sciences

Director: Dorilyn Hitchcock; HPA II 335A; 407-823-5932

Medical technologists may be involved in medical diagnosis, patient treatment, health screening, laboratory management, research, and laboratory education. They use highly sophisticated analytical equipment for the examination of blood and body fluids.

The curriculum is designed to give students a thorough background in the physical and biological sciences; to develop the necessary laboratory skills and skills essential to assume leadership roles in management and education; to develop a high level of proficiency in correlating clinical data.

The last two years of sequential courses constitute the upper division professional phase of the Program. The Medical Laboratory Sciences class size to be selected is determined by the availability of space and equipment, and available spaces in the clinical facilities.

The Medical Laboratory Sciences 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 (NAACLS-8410 Bryn Mawr Ave., Ste 670, Chicago, IL 60631) and is approved as a training program by the state of Florida Board of Clinical Laboratory Personnel.

Degrees: Medical Laboratory Sciences (BS)

Tracks: None

Minors: None

Office of Student Services and Advisement (OSSA)

Academic Advisor: Cynthia Contreras; HPA II 335H; 407-823-5787; Academic Advisor: Ana Maria Schwindt; HPA II 335G; 407-823-1259

E-mail: bcbsinfo@mail.ucf.edu

The Office of Student Services and Advisement (OSSA) is the primary office for undergraduate academic advisement in the Burnett College of Biomedical Sciences. OSSA assists Molecular Biology & Microbiology, Biotechnology, and Medical Laboratory Sciences students in orientation, registration, University policies and procedures, major requirements, course substitutions, and graduation certification. Students interested in pursuing Medical Laboratory Sciences limited access program, should meet with an advisor or the Program Director for more information.

Biomolecular Science Center

Director: P.E. Kolattukudy; BL 138; 407-823-1312

The mission of this university-wide interdisciplinary academic center is to establish vibrant research and training programs under the general theme, “Molecular and Genomic Bases of Diseases and Therapeutics.” The Center research is focused in four areas: cancer, cardiovascular disease, infectious disease, and neurodegenerative disease.

The Biomolecular Science Center currently works with the Office of Research and the broader UCF research community to establish state-of-the-art research infrastructure and core facilities to support research in modern life sciences.

Within the next five years, the Center plans to establish at least 20 new faculty research teams in Biomedical Sciences within its theme area. Additional faculty will be hired in partnership with other academic units including the College of Optics and Photonics and the Nanoscience and Technology Center. Together with the existing faculty, this growth in life sciences is expected to create a critical mass of people conducting interdisciplinary research at the cutting edge in Biomedical Sciences that can have a significant impact on the biomedical technology industry of the region and the state.

The Biomedical Sciences PhD is a major vehicle for training. In addition, the center intends to help establish new degree programs in cooperation with other academic units to generate a skilled workforce that can serve the region and state’s growing biomedical biotechnology industry.

Degrees: Biomedical Sciences (Ph.D.)

Tracks: None

Minors: None

Pre-Health Professions Advisement Office

Director: Genaro Lopez; HPA I 124; 407-823-2670

The Pre-Health Professions Advisement Office serves students university-wide in preparing for and seeking admission to professional health science schools, such as medicine, veterinary, pharmacy, podiatry, physician assistant, physical therapy, optometry, chiropractic and dentistry.

For more information regarding this office, please refer back to the “Academic Advising” section of this Undergraduate Catalog.
The Burnett Honors College
Dean: Alvin Wang; The Burnett Honors College;
407-823-2076, Fax 407-823-6583
http://www.honors.ucf.edu

Assistant Dean: Martin Dupuis
Director of Administrative Services: Donna Plaisted
Director of Computer Operations: Andrew Holloway
Director of Advising: Rex Roberts
Director of Student Affairs: Jill Norburn
Director of Student Development: Lisa Sklar
Director of Student Services: Madi Dogariu
Director of Research and Civic Engagement: Kelly Astro

Committed to diversity in both the composition of its student body and the programs that it supports, The Burnett Honors College (TBHC) at UCF provides a challenging and exciting educational experience to academically talented students.

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

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

Students in TBHC are actively involved in social activities and course programming. They also have priority registration privileges and access to the Honors Reading Room, Computer Lab, and Honors Housing.

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

Admission to University Honors is granted by TBHC to qualified incoming freshmen. Students who seek admission to University Honors must apply directly to TBHC. It is the student’s responsibility to obtain the appropriate Honors College admissions information from the TBHC Office of Student Services and follow the procedures necessary to enter the program. Prospective Honors students and their parents are encouraged to contact Honors staff if they have questions.

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 must maintain a minimum 3.2 UCF GPA and a minimum 3.0 GPA in Honors courses to remain in University Honors. In addition to meeting the GPA requirements, to graduate with University Honors the student must: 1) complete 12 hours of Honors lower-division course work; 2) complete the freshman Honors Symposium; and 3) meet upper-division Honors course requirements determined by college or major3.

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>Symposium</th>
<th>Lower-division</th>
<th>Upper-division Major</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 hours</td>
<td>12 hours</td>
<td>See requirements by College3</td>
</tr>
</tbody>
</table>

The current upper-division3 requirements are as follows:

- **University Honors Upper-Division Program Requirements:**
  - College of Arts and Humanities, College of Education, College of Sciences, Rosen College of Hospitality Management, and Medical Laboratory Sciences, Engineering Technology, Information Technology, and Interdisciplinary Studies majors
  1. Complete one Honors Interdisciplinary Seminar3
  2. Complete two Honors upper-division courses or Interdisciplinary Seminars3

- **University Honors Upper-Division Program Requirements:**
  - College of Business Administration
  1. Complete one Honors Interdisciplinary Seminar3
  2. Complete two Honors upper-division Business courses

- **University Honors Upper-Division Program Requirements:**
  - College of Engineering and Computer Science, Information Technology and Engineering Technology
  1. Complete one Honors Interdisciplinary Seminar3 outside the student’s department of major (although it may be within the College of Engineering and Computer Science)
  2. Complete two Honors upper-division Engineering courses

- **University Honors Upper-Division Program Requirements:**
  - College of Nursing
  1. Complete two Honors upper-division Nursing courses
  2. Complete one Honors Nursing Seminar3

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

- **University Honors Upper-Division Program Requirements:**
  - College of Health and Public Affairs (COHPA) excluding Nursing majors.
  1. Complete one Honors Interdisciplinary Seminar3 outside major dept. (3 hrs)
  2. Complete one Honors Interdisciplinary Seminar3 offered by COHPA (3 hrs)
  3. Complete an additional Honors Interdisciplinary Seminar3 or three credit hours of independent study (3 hrs)

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

- **University Honors Upper-Division Program Requirements:**
  - Burnett College of Biomedical Sciences excluding Medical Laboratory Sciences majors.
  1. Complete one Honors Interdisciplinary Seminar3 outside the major (3 hrs)
  2. Complete two of the following Honors upper-division courses (7-9 hrs)
  3. Complete PCB 3703H Honors Human Physiology (3 hrs)
  4. Complete PCB 3733H Honors Molecular Biology II (3 hrs)

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

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

2 Freshman Honors Symposium is a two credit hour course offered in the Fall semester of each year. This course includes guest lectures, video and film presentations, and live performances by guest artists. A field trip is included as part of the freshman Honors Symposium. Attendance at this series is mandatory for all students participating in University Honors. Freshman Honors Symposium also includes a Service Learning component.

3 An Honors Interdisciplinary Seminar normally is an upper-division offering intended for all majors. Most seminars are team-taught, and present cutting-edge topics. Enrollments are limited to 20 students.

Acceptable Waivers

Students may receive a waiver of credit for one upper-division Honors course upon completion of six or more hours of upper-division credit for the following programs: 1) University Study Abroad Program; 2) The Washington Center; and 3) Research Experiences for Undergraduates (REU) program. Students also may receive a waiver of credit for one upper-division Honors Seminar3 upon satisfactory completion of a graduate level course while taken as an undergraduate student. Students should obtain waivers from the Office of Honors Advising (BHC 107) prior to their participation in the above programs. Students may only receive one waiver of credit per career.

UCF/USF Accelerated Medical School Program for Students of The Burnett Honors College

http://www.honors.ucf.edu/ufsf_medschool.html

Eligible UCF freshmen who have been admitted to The Burnett Honors College and are interested in attending medical school have an opportunity to receive guaranteed admission to University of South Florida’s College of Medicine and complete a medical degree in seven years (3+4). Students must apply for the program prior to their first semester at UCF. The first three years of study will be completed at UCF and the fourth year will be done in residence at USF as part of the first year of medical school, provided that students...
Honors in the Major

Application for admission to the Honors in the Major program will be made to TBHC following consultation by the student with the Department Chair or Honors in the Major Coordinator in the student’s major department. This program is designed to encourage original and independent work by the student. Two copies of the thesis, project, or creative work will be placed in the University Library with another copy remaining in The Burnett Honors College Reading Room. An Honors in the Major Handbook outlining the procedures for completing this program is available in BHC 102 or online at http://honors.ucf.edu/docs/HIM/himhandbook.pdf.

Requirements for admission to Honors in the Major are: completion of at least 60 credit hours of college credit including at least 12 graded upper-division hours at the University of Central Florida; at least a 3.5 GPA within the major and at least a 3.2 GPA in all upper-division courses regardless of institution. Students must also seek approvals by the department chair from which Honors in the Major is sought and continue to meet all the program requirements. UCF will confer a Bachelor’s Degree following successful completion of the fourth year of study. USF will confer the Doctor of Medicine Degree at the successful completion of the program.

Students may elect to complete a fourth year at UCF, following the more traditional pattern of four years of undergraduate coursework prior to receiving the Baccalaureate Degree, and then enter the USF College of Medicine. Students selecting this option (4+4) must complete the same requirements as the accelerated (3+4) program, but also have the opportunity to take more advanced coursework and become involved in additional research activities. Students may elect to decelerate at any point prior to October 31 of the third year.

Transfer students are not eligible for this program.

Students applying for this accelerated program must select a major in one of the following fields in order to receive a Baccalaureate Degree from UCF:

- Molecular Biology and Microbiology
- Other majors are available using the 4 + 4 option

The Burnett Honors College will provide oversight of the student’s progress in meeting Honors requirements and will coordinate overall completion of the first three years of the program. Students will receive advisement and schedule planning assistance each semester from a department advisor and the Pre-professional advisor.

Students attending the USF Medical School during their fourth year of matriculation (3 + 4 track) may transfer a maximum of 30 hours of course work taken at USF toward their UCF undergraduate degree. Such students fulfilling the accelerated 3 + 4 track will receive their BS degree from the University of Central Florida after successfully completing all UCF requirements and the requirements of the first year of medical education at USF.

The USF College of Medicine will provide oversight of the 4-year medical school curricular component of the program.

Eligibility Requirements

- Florida resident
- SAT score of 1300 or ACT of 29
- Unweighted high school GPA of 3.7
- Class rank (if available) top 10%
- Admission to The Burnett Honors College
- Completion of the Accelerated USF Medical School Application Form with one letter of recommendation following admission to The Burnett Honors College
- Submittal of two letters of recommendation from UCF faculty and successful USF College of Medicine interview in May at the completion of the first year
- Detailed program requirements can be found at http://www.honors.ucf.edu/usf_medschool_requirements.html

Honors in the Major is awarded upon completion of an advanced Honors Thesis, and the completion of at least three but not more than six hours of Directed Readings course work as determined by the academic department; and at least three but not more than six hours of Honors Thesis or Project work taken in the college or department of major. Engineering majors must take EGN 4931H in lieu of Directed Readings and will write a thesis proposal as part of their coursework. HIM students in the College of Health and Public Affairs may take three credit hours of Honors Directed Readings or one CO. Honors Interdisciplinary Majors, Department Chairs, or Colleges may set additional requirements for Honors in the Major to be completed.

The Honors Thesis is to be completed under the direction of a committee of three faculty members, one of whom is the project or thesis Chair. It is the student’s responsibility to obtain an Honors in the Major Committee Chair who will undertake the responsibility of directing the Honors Directed Readings and Thesis and, in consultation with the student, form the Honors in the Major faculty committee. The Thesis Committee Chair and at least two committee members must be tenured or tenure-earning faculty. The student is responsible for filing an application with TBHC to begin Honors in the Major, which must be signed by the Thesis Committee Chair, the Honors Coordinator of the major department, and the Director of Research and Civic Engagement of TBHC. The student must receive a grade of at least “B” in all Honors in the Major course work to be awarded Honors in the Major.

The student must file an “Intent to Graduate with Honors in the Major” form with the TBHC Office of Research and Civic Engagement by the last day of classes of the semester preceding their anticipated graduation date. A student who completes all of the requirements for Honors in the Major, including maintaining at least a 3.5 GPA within the major and at least a 3.2 GPA in all upper-division coursework, will have the designation of “Honors in (subject area)” noted on the diploma and the University transcript. If you have any questions about these requirements, please contact TBHC at 407-823-6402 or honorsresearch@mail.ucf.edu

TBHC oversees the Student-Mentor Academic Research Teams (SMART) Program which is designed to assist sophomores and juniors identify and work with faculty mentors in a research area of shared interest. SMART is open to all UCF students with a minimum overall GPA of 3.2. A limited number of SMART grants are competitively awarded to students and faculty for fall, spring, or summer semester research. Students seeking more information about SMART should visit http://www.honors.ucf.edu/SMART_main.html

If you have any questions about SMART or the grants program, please contact the Office of Research and Civic Engagement in BHC 102 or by phone at 407-823-6402.

Office of Student Scholarship and Fellowship Advisement

The Office of Student Scholarship and Fellowship Advisement (OSSFA) serves all UCF students who are eligible to apply for prestigious scholarships such as the Rhodes, Truman, Gates, and Marshall. Because TBHC is UCF’s campus representative for all prestigious scholarships, applicants for scholarships that require institutional nomination must contact OSSFA prior to the application process. Students seeking detailed information about prestigious scholarships and the application process should visit http://www.ossfa.ucf.edu. All students who are applying for a prestigious scholarship or fellowship are encouraged to contact the OSSFA office for assistance with their applications, even if the scholarship does not require institutional endorsement. Students seeking more information should contact OSSFA in BHC 103 or by phone at 407-823-0325 prior to the application process.
The College of Arts and Humanities includes the following departments: Art, English, Modern Languages & Literatures, History, Music, Philosophy, and Theatre. The College also houses programs in American Studies, Asian Studies, Judaic Studies, Latin American, Caribbean and Latino Studies, Women’s Studies, Middle Eastern Studies and the School of Film and Digital Media.

In keeping with the aims of the University of Central Florida, the College is responsible for all programs in the areas of humanities and arts. The departments collectively offer more than 75 baccalaureate and graduate programs. For additional information concerning graduate programs, please refer to the Graduate Catalog.

In addition to providing academically strong degree programs in the areas noted above, the College of Arts and Humanities offers a selection of courses that are designed to complement the programs of the other colleges of the University. These offerings include a number of courses necessary to satisfy the University’s General Education program.

A student enrolled in the College as an undergraduate must fulfill all University degree requirements including those for general education as well as the particular requirements set forth within each area of specialization. Computer proficiency is determined within the student’s department of major. Depending on the program, evaluation may be via a written test, relevant projects, or specific exercises within a course or an entire course dealing with computers. To be certified for graduation, a student must achieve at least a “C” GPA (2.0) in the courses of his or her major and/or minor. Some departments also require a minimum grade in each major course. Students are advised to consult their departmental advisor for specific policies. For programs with a foreign language graduation requirement, American Sign

College of Arts and Humanities
Dean: Jose Fernandez; CAS 190; 407-823-2251;
Associate Dean: Lyman Brodie; CAS 190; 407-823-2251;
Associate Dean: Terry Frederick; CAS 190; 407-823-2251;
Associate Dean: Consuelo Stebbins; CAS 190; 407-823-2251;
Assistant Dean: Ke Francis; CAS 190; 407-823-2251
A student whose written or oral communication in any course is deemed unsatisfactory may be referred to the Dean by the instructor. Additional coursework or an individual study program, consistent with the needs of the student, may be assigned and must be completed before the degree is granted.

## Preprofessional Programs

### Prelaw Program

**Prelaw Advisor:** Jennifer Mundale; CNH 411L; 407-823-5076

There is no preferred major for pre-law. Law schools accept superior students with a good liberal arts background, regardless of major field. A Bachelor of Arts or Bachelor of Science degree with approximately three-fourths of the course work representing theory content is typically suggested. Majors such as English, History, Legal Studies, Philosophy, Sociology, and Political Science meet this criterion. The quality of undergraduate education for the legal profession, according to the Association of American Law Schools, is grounded in three basic skills and insights: comprehension and expression in words, critical understanding of the human institutions and values with which the law deals, and the creative power of thinking. Law schools require that the Law School Admission Test (LSAT) be taken prior to consideration for admission. General information pertaining to programs of study, the LSAT, careers, and law schools can be obtained from the Pre-law Advisor.

Advisement of pre-law students will be provided in the area where a major is chosen. For example, a pre-law student who desires to emphasize the historical foundations should seek advisement in the Department of History; for emphasis in political science advisement should be sought in the Department of Political Science; emphasis in economics should be gained through advisement in Economics programs in the College of Business Administration; emphasis in Legal Studies can be pursued in the Departments of Criminal Justice and Legal Studies in the College of Health and Public Affairs.

### Advisement

**CAH Student Advising (CAHSA)**

**Director:** Delia Garcia; CNH 202; 407-823-2492; E-mail: cahsa@mail.ucf.edu

http://www.cah.ucf.edu

CAH Student Advising (CAHSA) is the primary office for undergraduate academic assistance in the College of Arts and Humanities. CAHSA assists students in the College with orientation, registration, graduation certification, and with the interpretation of University and College academic policies. Questions concerning University and College academic policies affecting the College of Arts and Humanities majors should be directed to the CAHSA 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 and meet with his/her advisor for course planning every semester.

### Program Planning

Although suggested curricula are available in most areas, students will plan their program in consultation with a faculty advisor appointed by the major department.

## Area Studies Programs

Area Studies programs are multi-disciplinary programs that focus on specific regions or cultural groups. UCF has four area studies programs with an international focus: Asian; Judaic; Latin American, Caribbean, and Latino Studies; and Middle Eastern. Although the academic home of these programs is the College of Arts and Humanities, faculty and students from across the entire university may participate in them. These programs may be elected as minors by students majoring in any discipline within the university. For more information about the programs and contact numbers of the program directors see the list below.

- **Asian Studies** - Contact: Patrick Murphy; 407-823-0989
- **Judaic Studies** - Contact: Moshe Pelli; 407-823-5039
- **Latin American, Caribbean and Latino Studies** - Contact: José Mañuz-Cuadra; 407-823-1173
- **Middle Eastern Studies** - Contact: Husain Kassim; 407-823-2803

## International Study Centers

### Undergraduate Inter-institutional Transient Program

The State University System operates study centers in London, England and Florence, Italy during the Fall and Spring semesters. Students with 27 or more credit 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

<table>
<thead>
<tr>
<th>Title</th>
<th>Degree</th>
</tr>
</thead>
<tbody>
<tr>
<td>African-American Studies</td>
<td>Minor</td>
</tr>
<tr>
<td>American Studies</td>
<td>Minor</td>
</tr>
<tr>
<td>Animation</td>
<td>BFA</td>
</tr>
<tr>
<td>Art</td>
<td>BFA, BFA, Minor, MFA</td>
</tr>
<tr>
<td>Asian Studies</td>
<td>Minor</td>
</tr>
<tr>
<td>Cinema Studies (Film)</td>
<td>BA, Minor</td>
</tr>
<tr>
<td>Community Arts - PAVE</td>
<td>BA, Minor</td>
</tr>
<tr>
<td>Dance</td>
<td>Minor</td>
</tr>
<tr>
<td>Digital Media</td>
<td>BA, Certificate, Minor</td>
</tr>
<tr>
<td>English</td>
<td>BA, MA, Minor, MFA, PH.D., Certificate</td>
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<tr>
<td>Film</td>
<td>BFA</td>
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<tr>
<td>Modern Language Combination</td>
<td>BA</td>
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<tr>
<td>French</td>
<td>BA, Minor</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>
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<tr>
<td>Italian</td>
<td>Minor</td>
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<tr>
<td>Jazz Studies</td>
<td>Certificate</td>
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<tr>
<td>Judaic Studies</td>
<td>Certificate, Minor</td>
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<tr>
<td>Latin American Area Studies</td>
<td>Minor</td>
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<tr>
<td>Middle Eastern Studies</td>
<td>Minor</td>
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<tr>
<td>Music</td>
<td>BA, BM, Minor</td>
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<tr>
<td>Music Education</td>
<td>BME</td>
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The College of Arts and Humanities offers a minor in African-American Studies, which gives students the opportunity to explore the African American experience from a multi-disciplinary perspective. The program is designed to enhance and complement the student’s major area of study. The minor incorporates courses from many different disciplines including Music, Fine Arts, History, English, Foreign Languages, Political Science, Psychology, Sociology, Anthropology, Film, and Theater. The program’s interdisciplinary approach emphasizes the artistic and intellectual traditions of African Americans, and is dedicated to developing expertise and knowledge of the black experience in the African Diaspora.

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

Community Arts—PAVE: Program
Program Director: Kevin Haran; VAB 117; 407-823-2676
A minor in Community Arts—Partners in Art in Visual Education (PAVE) is offered for the student who is majoring in Art, Music, Theatre, or English.

Degrees: None
Tracks: None
Minors: Community Arts

Department of English
Chair: Thomas Krise; CNH 405; 407-823-1159;
E-mail: english@ucf.edu
http://www.english.ucf.edu
Faculty: Angley, Apple, Barnes, Bartkevicius, Bell, Bowdon, Bow, Brain, Brodkin, Campbell, Carpenter, Casmier-Paz, Cato, Dombrowski, Ethridge, Flammia, Giglio, Goradam, Grajeda, Hemschemeyer, Heepner, Hohenleitner, Hubbard, A. Jones, D. Jones, Kamrath, Kesler, Klaasen, Krise, Lamazares, Leiby, Lillios, Lippincott, Logan, Marinara, Mauer, Meehan, Mohrenne, Morton, Murphy, Oliver, Owens, Pugh, Rodriguez-Milanes, Roney, Rushin, Saper, Schell, Schultz, Scott, Smith, Spraker, Stap, Telep, Thaxton, Trouard, Wallace, Weaver, Young; Professors Emeriti: Adicks, Omans, Schiffhorst

The Department of English is responsible for the effective teaching of language and literature in English, including World Literature, Linguistics, rhetoric, 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), Creative Writing (MFA), Texts & Technology (Ph.D)
Tracks: Literature, Creative Writing, Technical Writing
Minors: Creative Writing, Literature, Linguistics, Technical Writing and Editing, Writing

Film and Digital Media

Digital Media
Head of Digital Media: David Vickers; OTC 500; 407-823-1733;
E-mail: digitalmedia@dm.ucf.edu
http://www.dm.ucf.edu
Faculty: Blue, Bowers, Cannon-Bowers, Croft, Deery, Ferrier, Frederick, Frome, Hadrika, Hughes, Kenny, Mosshel, McDaniel, Peters, Salisbury, Schatz, Stapleton, Story, Sung, Theen, Underberg, Vick, Wirth; 407-823-6100
Digital Media is a four-year curriculum with areas of specialization in Visual Language and Digital Interactive Systems. Basic concepts in digital technology, story and performance are fundamental to the curriculum. Strong faculty interests in digital production and entertainment, serious games, Internet issues and the development of digital media presentations via various electronic capabilities.
Digital media partnerships with several companies in the area with internships, research activities and graduate work in game development.

Degrees: Digital Media (BA)
Tracks: Digital Interactive Systems and Visual Language
Minors: Minor, Certificate

Film
Head of Film: Steve Schlow; COM 121; 407-823-0694;
E-mail: film@ucf.edu
http://www.film.ucf.edu
Faculty: Blum, Congdon, Cook, Filli, Fluegel, Gerstein, Grula, Harris, Ingle, Johnson, Jones, Mills, Rohdie, Sandler, Schlow, Stoeckl, Yearwood
Offering a four-year undergraduate curriculum, the Film Department focuses on developing a student’s creative voice, appreciation and understanding of the medium. There are two programs: The BFA in production is a limited access program that stresses entrepreneurial filmmaking and the use of new technology in the production and distribution of student work. Encompassing all aspects of filmmaking from conceptualization to distribution, this program 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. The Cinema Studies BA is a rigorous course of study in film theory, criticism and history that prepares the student for work in the industry or for Graduate Study. Community partners include: Universal Studios Florida, Panavision, Kodak, Disney-MGM Studios, and the Florida Film Festival.

Students are selected for the limited access BFA by submitting an application form and creative portfolio by December 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 and check with the Department or website frequently.

Degrees: Film (BFA) Cinema Studies (BA)  
Minors: Film-Cinema Studies (BA)  

Department of History  
Chair: Edmund Kallina; CNH 505A; 407-823-5450;  
E-mail: history@ucf.edu  
http://www.cah.ucf.edu/history/  
Faculty: Adams, Beiler, Cassanello, Clark, Crepeau, Downing, Farless, Fernandez, Foster, Garcia, Gordon, Greenhaw, Herlihy, Kallina, Larson, Lester, Lyons, Martinez-Fernandez, Sacher, Solonari, Walker, White, Zhang

History is the study of the past. Its objective is to understand the past, and through the past, to understand the present. The discipline of history is more than 2,500 years old and remains a vital body of knowledge in the 21st century.

Students who are interested in becoming a lawyer should seriously consider 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, and Latin American, Caribbean and Latino Studies.

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

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

The Interdisciplinary Program in Judaic Studies offers both a Minor and a Certificate. The program offers instruction, conducts research, and disseminates knowledge in the civilization of the Jewish people from Biblical times to the present day in the major dimensions of its creativity: literature, language, religion, philosophy, law, and social, political and economic organization. Because the roots of western culture and civilization and major world religions lie in ancient Jewish thought and practice as manifested in the Hebrew Bible and subsequent writings, Judaic Studies form an essential component of the university’s curricula.

The program enables students to acquire a foundation of knowledge of Jewish history, the Hebrew language, Jewish philosophy, culture, religious beliefs, and political aspirations; and to understand the contribution of Judaism to western civilization. The courses highlight major aspects of Jewish civilization, focusing on its interaction with other cultures and on the bodies of human knowledge upon which it draws. The program is designed to serve students pursuing careers in general or Jewish education, in communal works and Middle-Eastern affairs, in languages, humanities, or liberal arts, in the ministry or rabbinate, and in the community at large.

Degrees: None  
Tracks: None  
Minors: Judaic Studies, Certificate  

Latin American, Caribbean, and Latino Studies  
Program Director: José Maunez-Cuadra; CNH 201; 407-823-1173;  
E-mail: jmaunez@pegasus.cc.ucf.edu

The Latin American Area Studies Minor provides students with an interdisciplinary knowledge of, and the necessary tools to understand Latin America, the Caribbean and Latinos in the United States. Students completing the minor will be prepared to apply their knowledge on the areas covered by the minor in a variety of careers including, but not limited to education, government, journalism, foreign service, social and community service, international trade, and public relations.

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

Middle Eastern Studies Program  
Program Director: Husain Kassim; CNH 411J; 407-823-2803;  
E-mail: kassim@mail.ucf.edu  
Advisory Board Co-Chairs: John C. Bersia, Janan Smither;

An interdisciplinary minor designed to offer students both an overview of Middle Eastern civilization and a detailed study of its most important features. The focus of the program is on the religious, political, historical and social forces shaping the region. Course work will include classes from the curricula of participating programs (modern languages, history, humanities, Judaic studies, philosophy and political science).

Degrees: None  
Tracks: None  
Minors: Middle Eastern Studies  

Department of Modern Languages and Literatures  
Chair: Paul Giordano; CNH 523; 407-823-2472;  
E-mail: foreignlanguages@ucf.edu  
http://www.cah.ucf.edu/forlang/  
Faculty: Barone, Burda, Colon, Decker, Fabery, Fanai, Fernandez, Ferri, Folse, Garcia, Giltnert, Korosy, Labmam, Leticee, Lopez, Ludwig, Mihai, Montalvo, Nallbone, Negy, Polggreen, Pomerleau, Prucha, Purmensky, Redmon, Rivera, Sipin, Spina, Stebbins, Taylor, Thompson, Tinquet-Balak, Villanueva, Vitanova, Barsch (Professor Emeritus), Micarelli (Professor Emeritus)

The Department provides instruction in Arabic, Chinese, French, German, Italian, Japanese, Latin, Portuguese, Russian, and Spanish, with majors in French, Spanish, and a Combination Major (two languages). The language combinations may consist of French, German, or Spanish as a first language, and any of these three, plus Italian, as a second language.

These programs are designed to meet the needs of students who desire competency in a language and expanded understanding of foreign culture and literature. Students desiring to major in a foreign language must meet all the requirements for graduation as set forth by the University, the College of Arts and Humanities, and by the Department of Modern Languages and Literatures.

Degrees: French (BA), Spanish (BA, MA),  
Modern Language Combination (BA), TESOL (MA)  
Tracks: None  
Minors: French, German, Italian, Spanish
Department of Music
Chair: Johnny Pherigo; CNH 205; 407-823-2879; Fax 407-823-3378; E-mail: music@ucf.edu
http://www.cah.ucf.edu/music/

Part-Time Faculty: Bagley, Hawkins, Hill, Hsu, Randall, Robertson, Titus

The Department of Music offers a Bachelor of Music degree with options in performance and composition; a Bachelor of Arts Degree in music; and a Bachelor of Music Education Degree with specializations in instrumental, choral and elementary school music. The Music Education programs are approved by the Florida State Department of Education. Students who desire to be certified to teach in elementary and secondary schools should major in Music Education. Courses leading to teacher certification are offered cooperatively with the College of Education. The Music Department is fully accredited by the National Association of Schools of Music. Music organizations on campus include Pi Kappa Lambda, Phi Mu Alpha, Sigma Alpha Iota, Tau Beta Sigma, Kappa Kappa Psi, Student Chapters of MENC and ACDA, and Music Student Advisory Council.

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

Department of Philosophy
Chair: Shaun Gallagher; Psychology Bldg, 220; 407-823-2273; E-mail: philosophy@ucf.edu
http://www.cah.ucf.edu/philosophy

Faculty: Bates, Burris, Cash, Compson, Congdon, Coverston, DiBernardo, Evans, Fiore, Hawkins, Jaeger, Janz, Jones, Kassim, Mundale, Park, Schipper, Stanlick, Strawser, Vest

The Department of Philosophy offers a Philosophy major, a Religious Studies major, and a Humanities major, with a track in Philosophy, Religion, and Popular Culture as well as minors in Philosophy, Humanities, Religious Studies, and Cognitive Sciences. The Department requires all majors to receive advisement prior to registering each semester. Majors should schedule appointments with their departmental advisor. For any course used to satisfy a requirement (including electives) of the Philosophy major, the Humanities major, and Religious Studies, a grade of “C” or better must have been received.

Degrees: Philosophy (BA), Religious Studies (BA), Humanities (BA), Humanities - Philosophy, Religion and Popular Culture (BA)
Tracks: Regular and Honors
Minors: Cognitive Sciences; Humanities; Philosophy; Philosophy, Religion & Popular Culture; Religious Studies

Department of Theatre
Interim Chair: Diane Chase; UTC 111; 407-823-2862; E-mail: theatre@ucf.edu
http://theatre.ucf.edu

Faculty: Alutz, Becker, Boyd, Brotherton, Brown, Chicurel, Columbus, Flannery, Harris, Helsinger, Huaxiang, Ingram, Larthonax, Lee, Listengarten, McDonald, Niess, Rusnock, Scott, Seay, Shafer, Siegfried, Smith (Professor Emeritus), St. Claire, Stirling, Tollefson, Vernon, Weaver, Wood, Wootten, Wuehrmann

The Department of Theatre seeks to develop theatre artists of the highest quality by providing a select number of students with the training, education, and experiences necessary for the successful pursuit of professional careers in theatre arts and the entertainment industries. In support of this mission and the liberal arts goals of the College of Arts and Humanities, the department seeks to provide its students with the knowledge and skills necessary to live full, rewarding and productive lives. Offering undergraduate Bachelor of Arts and the Bachelor of Fine Arts degrees, as well as graduate Masters of Arts and Master of Fine Arts degrees, the Department of Theatre undertakes to develop and graduate theatre artists who are sensitive, aware human beings. Through its public performance programs, the department endeavors to serve as a cultural resource for the University, the community and the central Florida region. Striving to provide its students with a competitive edge, the department employs a faculty and staff of artists/teachers who work intensely with students in the classroom and in production. To supplement this education and training, professional guest artists are brought to the campus to work in production and in the classroom. Before graduation, BFA students are required to complete a professional theatre internship and MFA students are required to complete a professional residency, thus providing them with a unique and invaluable introduction to the real world of professional theatre. Internships are optional for BA students. In all its endeavors, the Department of Theatre strives to create and maintain a professional environment necessary for the continued growth and development of its students, faculty, and staff.

Degrees: Theatre (BA, BFA, MA, MFA)
Tracks: Acting, Design and Technology, Stage Management, Musical Theatre, Theatre for Young Audiences, Theatre Studies
Minors: Dance, Theatre

Women’s Studies: Program
Program Director: L. M. Logan; CNH 411; 407-823-6502; E-mail: womensst@ucf.edu
http://www.cah.ucf.edu/womensstudies

Faculty: Oliver, Preston

The Women’s Studies program offers an interdisciplinary minor and a certificate in Women’s Studies in cooperation with several departments, programs, and schools. The program examines women’s roles in and contributions to past and present societies, and provides practical and theoretical knowledge about women’s and gender issues.

Degrees: BA (Interdisciplinary Studies)
Tracks: Women’s Studies Track in Interdisciplinary Studies
Minors: Women’s Studies, Certificate
College of Business Administration

Dean: Thomas L. Keon; BA 230; 407-823-2181

Associate Dean: Bradley M. Braun; BA 230L; 407-823-5094
Associate Dean: E. Taylor Ellis; BA 101-W; 407-823-2187
Associate Dean: Jaishankar Ganesh; BA 240F; 407-823-2385

The College Mission Statement can be condensed into one sentence: The College of Business Administration advances the University’s mission and goals in providing intellectual leadership through teaching, research, and service. The vision is to create within the College an environment that nurtures learning and exploration, provides opportunities for faculty to disseminate information, provides educational opportunities for students, businesses and the general public, and provides a platform for many and various forms of partnerships.

Nurturing Learning and Exploration: The College is a catalyst for students, faculty, and the general public to gain a better understanding of the various fields of business. Educational experiences inspire learning and encourage exploration.

Dissemination of Information: Students are encouraged through the learning process to gather information to be used by them in future business vocations. Both students and faculty are encouraged to pursue outlets to share “new” information within their fields and to business practitioners.

Provide Educational Opportunities: Degree seeking individuals are provided with curricula leading to baccalaureate, masters, and doctoral programs. The College is also committed to providing more opportunities with structured learning experiences that “certify” non-degree seeking individuals as having accomplished a minimum requirement for a selected career.

Provide a Platform for Partnerships: The College is engaged in specific areas of excellence that provide opportunities for learning, exploration, and sharing. These specific areas of excellence take the form of Centers and Institutes, and selected niche areas of College units.

All undergraduate and graduate programs are accredited by the Association to Advance Collegiate Schools of Business International (AACSB).

Admission to the University of Central Florida does not imply admission to the College of Business Administration. Students will only be allowed to enroll in the 3000/4000 level courses taught by the College of Business Administration after they have been admitted to the College. Admission to the College will be granted when the following are complete:
College of Business Administration

- Completion of the University General Education program, or an AA degree from a Florida Public Community College, and a 2.0 GPA.
- Common Program Prerequisites with a 2.0 GPA and "C" or better in each class.

Students who otherwise meet the University admission requirements, such as entering freshmen and transfer students, will be placed in a major pending category until they meet the requirements set forth above. Only grades of "C" (2.0) or higher will transfer into the program. Each student should attend orientation for academic advising and should meet with an academic advisor in the College to outline a program of study. Courses taken at community colleges do not substitute for upper division courses. Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.

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 common, faculty, business, and students, the Business Education 2000 (BE2000) curriculum focused on four competencies that are integrated throughout all coursework: Teamwork, Communication, Creativity, and Adapting to Change. These four competencies were expanded in 2002 to include Ethics and Diversity and constitute the BE 2010 curriculum. Faculties, working with representatives from the business community, help you develop these competencies as you work through the following required courses in the Common Body of Knowledge:

GEB 3031 Cornerstone
GEB3356 Introduction to International Business
BUL 3130 Legal and Ethical Environments of Business
ECO 3411 Quantitative Business Tools II
FIN 3403 Business Finance
MAN 3025 Management of Organizations
ISM 3011 Essentials of Management Information Systems
MAR 3023 Marketing
MAN 4720 Strategic Management

Grade Point Average Requirements
For graduation the student must have maintained a minimum 2.0 GPA in course work taken in the College of Business Administration and a minimum 2.0 GPA in the course work required in the major, and a UCF minimum GPA of 2.0. In addition, all majors within the College of Business Administration also require a grade of "C" (2.0) or better in each course within the major.

Student Load
A student who is enrolled in 15 – 16 credit 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 credit hours in the Fall and Spring terms, and 14 credit hours in the Summer term must obtain permission from the College.

Community/Junior College Transfer Notes
1. Admission requirements can and do vary among the business and accounting programs at the ten universities comprising the State University System. To ensure that they have met all prerequisite course eligibility requirements, transfer students from Florida’s community and junior colleges should complete the following program prerequisites as part of their Associate of Arts degree: ACG 2021 (or ACG 2001 and ACG 2011), ACG 2071, ECO 2013, ECO 2023, MAC 2233, STA 2023, (or QMB 2100) and CGS 2100. At UCF, students who have completed MAC 2233 and STA 2023 will be waivered from ECO 3401 Business Quantitative Tools I. Students who have completed either MAC 2233 or STA 2023, but not both, must take ECO 3401. Completion of these courses will satisfy all prerequisite course requirements for all business and accounting degree programs and will ensure that a student will receive further consideration for admission.
2. Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in UCF’s Business program. Only grades of "C" (2.0) or higher transfer into the program.

4. Florida Public Community College students are advised to complete the Associate of Arts Degree including:
   a. The general education requirements
   b. All of the common program prerequisite courses
   4. Courses taken at community colleges do not substitute for upper division courses.
   5. Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
   6. 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.
   7. A minimum of 12 credit hours must be completed at UCF within each individual major and 30 hours within the UCF College of Business.

Advisement
Undergraduate Student Services
Director: Helen Y. Hill; BA2 101; 407-823-2184
The Office of Undergraduate Student Services (USS) is the primary office for undergraduate assistance in the College of Business. Degree requirements, registration, and any questions concerning University and College academic policies affecting Business majors should be directed to the Office of Undergraduate Student Services staff in BALL 101 or by calling 407-823-2184. Visit USS’s home page at: http://www.bus.ucf.edu/uss/.

Programs and Degrees
Title Degree
Accounting BSBA, MSA, MST
Business Administration MBA, Ph.D.
Economics BA, BSBA, MS, Ph.D.
Finance BSBA
General Business BSBA
Management Information Systems BSBA, MS
Management BSBA, MS-HR
Marketing BSBA
Business (Regional campuses only) BABA

Departments and Programs
Kenneth G. Dixon School of Accounting
Director: R. Roberts, Director; BA 437; 407-823-2871
Assistant to Director: M. Hampton; BA 438; 407-823-5678
Faculty: Bandy, Bobek, Dwyer, Evans, Goldwater, Johnson, Judd, Kellihier, Klintworth, Lacy, Mahoney, Roberts, Roush, Savage, Smith, Vaughen, Veit, J. Welch

Mission Statement
The mission of the Kenneth G. Dixon School of Accounting is to provide high quality undergraduate, graduate, and professional educational programs responsive to the needs of students, community, and the profession. Teaching, research, and service are the means of accomplishing this mission. The School provides 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
Department of Finance

Chair: A. Byrd; BA 409; 407-823-3575

Faculty: Ajayi, Atkinson, Block, Borde, Byrd, Chen, Cheney, Choi, Dalmiyer, Frye, Gilkeson, Gregg, McQuillen, Modani, Park, Ragozzino, Ramanial, Scott, Schnitzlein, Singer, Smith, Weaver, Whyte

The program in finance is designed to provide the student with broad knowledge in finance, including business finance, investments, financial institutions, international finance, risk management and insurance, and real estate. The program provides the student with the theoretical background and tools of analysis required for making effective financial decisions. The study of finance prepares the student for careers in business financial management.

Distinctive Benefits
- Students prepare for career opportunities in business and corporate financial management, commercial banking, real estate, investment management and counseling, investment banking, mortgage banking, multinational business, insurance and government.
- Students who major in finance are sought by both financial and non-financial firms.
- The rapidly changing domestic and international economies need individuals who have the skills to make sound financial decisions.

Degrees: Finance (BSBA), Real Estate (BSBA)

Minors: International Business, Real Estate, Finance

Certificates: Banking, Commercial Real Estate, Investments, Real Estate Brokerage, Corporate Finance, Mortgage Brokerage, Real Estate Appraisal

General Business

Faculty Advisor: B. Moore; BA 466; 407-823-5256

This option allows students to develop a general program of study which will satisfy career objectives not provided for by the specialized areas of concentration. To pursue this option, students should seek advisement in the Department of Economics. An academic advisor will be assigned to assist each student in developing a meaningful program of study.

Degrees: General Business (BSBA, MBA, Ph.D).

Minors: For non-Business majors

Department of Management

Chair: F. Jones; BA 335; 407-823-2679

Faculty: Ambrose, Arnaud, Barringer, Becker, Boguim, Butcher, Callarman, Connell, C. Ford, R. Ford, Holland, Huseman, Keon, Migenes, McDonald, Putchinski, Quinn, Schminke, Susan, Viggiano

Tomorrow’s managers must be prepared to meet the challenges of a highly dynamic and rapidly changing business environment. The objective of the Management program is to prepare students for the excitement and opportunities that this presents. To learn about management, students study the processes and techniques of leadership, planning, controlling and staffing of both small and large organizations.

The curriculum is designed so that students can choose to concentrate in specialized areas of Entrepreneurship and Human Resource Management, or students can choose to major in General Management which allows them to take a broader variety of course work and prepares them for general management responsibilities.

The General Management major prepares students for a career that involves decision making responsibilities regardless of organization or assignment. The department goal is to emphasize the expertise, knowledge, and skills necessary to be not only a team player, but ideally a team leader. Whether the student is studying leadership, motivation, staffing, or international management, the curriculum will sharpen students’ skills in problem identification, analysis, and solution. The major can lead to a variety of rewarding careers in management positions throughout the organization. The department offers more specialized training - using the same approach - via our Human Resource Management major. Career paths include positions in training and development, personnel and employee relations, equal opportunity and labor relations, human resource consulting, and more.

For students interested in starting their own business or working for smaller fast growing organizations, the department offers specialized training via the Entrepreneurship Track.
College of Business Administration

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: General Management, Entrepreneurship, Human Resource Management
Minor: 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, Pohlh, Odisio, Saunders, Szymanski, Thinel, Twiddle, 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 tenth of information technology positions are unfilled.

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

The MIS major is ideal for students who excel at solving problems and who can take responsibility for implementing their solutions in working organizational systems. Students in the program are trained to be comfortable shifting between the big picture and the detailed view of a problem and its solution. They also have their communication skills refined so that they are able to communicate effectively as they discover the nature of the organizational problem (or opportunity), as they present their solutions, and as they manage the system implementation.

Successful MIS graduates have a variety of career options open to them, which lead to competitive salaries and travel opportunities. While many graduates join internal MIS staffs or consulting firms, there is a wide array of choices available to them. Graduates can choose between large and small companies, emerging or stable industries, and from among a multitude of career paths.

Distinctive Benefits
- Challenging field of study that rewards inquisitive students who are willing to work toward a goal.
- Student internship opportunities throughout the Central Florida region.
- An active student organization (MISA).
- Excellent job opportunities and starting salary prospects.
- Ability for graduates to apply and integrate all of the functional areas of business early in their professional careers.

Degrees: Management Information Systems (BSBA), Master of Science, Management Information Systems (MS/MIS)
Minor: Management Information Systems, Operations Management/Enterprise Systems

Department of Marketing
Chair: R. Michaels; BAZ 307; 407-823-2108
http://www.bus.ucf.edu/marketing/index.htm
Faculty: Allen, Borrieci, Crowson, Das, Davis, Desiraju, Echambadi, Ganesh, Gundy, Gupta, Harris, Howatt, Jordan, Kim, Maryott, Mayfield-Garcia, Michaels, Rubin, Sooder, Stock, Whang, Yoon

The Marketing major at UCF is called Impact Marketing 2010, or simply IM2010. It provides a superior education in the foundations of marketing such as research, customer behavior, professional selling, management, and strategy. A wide assortment of electives is designed to let each student round out his/her education according to specific career interests, whether that might be retailing, advertising, e-business, research, sales, sports marketing, healthcare, entertainment marketing or services. Internships are also readily available, and count as a marketing elective. Skills emphasized and developed throughout the curriculum are teamwork, communication, creativity, quantitative analysis, computing, problem solving, decision-making, thinking globally, and driving change.

A great benefit for Marketing majors is the opportunity to earn a certificate in any of seven areas of career interest: Selling and Sales Management, Retailing Management, E-Marketing, Sports Marketing Management, Healthcare Marketing, Entertainment Marketing and Services Marketing. Students can design a personalized certificate program combining elective courses with an internship that will enhance their value to potential employers.

The department offers an 18-hour minor in Marketing. This course of study provides a strong basic education in Marketing for business students with majors other than Marketing or students with majors from other colleges. Earning a minor in Marketing can add significant value and career flexibility for any student with any major.

Marketing is vitally important to all organizations and individuals, from global corporations to small businesses, from CEOs to the proprietors of small retail stores, from global manufacturing operations to a new dot com start-up. Nearly one-third of the civilian work force in the United States is employed in jobs related to marketing. Marketing offers a variety of interesting and challenging career opportunities, such as professional selling, retailing, advertising, marketing research, sports marketing, distribution and logistics, purchasing, and e-business. In addition, students with marketing degrees may find excellent job prospects in international markets. Marketing career opportunities also exist in a variety of non-business organizations, including hospitals, museums, universities, and government and social service agencies. Marketing also provides a strong career foundation for movement into top management positions.

Distinctive Benefits
- IM2010 program for Marketing majors recognized as one of the most innovative in the country.
- Seven certificate programs are available for Marketing majors.
- An 18-hour Marketing minor is available for students with other majors.
- Twenty-two dynamic faculty members are among the strongest teachers in the college.
- Comprehensive course offering each semester and summer -you can finish!
- Full-time faculty teach approximately 90% of undergraduate classes offered by the Department.
- Strong emphasis on preparing students for marketing management careers.
- Approximately 15 scholarships awarded annually on a competitive basis.
- Opportunities to participate in honors in the major, internships, independent projects, and directed studies.
- Opportunities to participate in national award-winning student chapters of the American Marketing Association and The Society for Marketing Professional Services (SMPs).

Degrees: Marketing (BSBA)
Tracks: Generalist, Sales
Minor: Marketing

For more information, visit http://www.bus.ucf.edu/marketing/ or call 407-823-2108. Department office is located in BA 353.
The role of the College of Education at the undergraduate level is to provide a high-quality education for students in preparation for careers in early childhood, elementary, secondary, exceptional, physical, technical education, and sports and fitness professions. The College of Education is dedicated to preparing professional educators/reflective practitioners who meet the needs of our schools and society. UCF’s College of Education is the #1 source of education baccalaureate degrees in the State of Florida.
Success to Significance
- America’s 100 Best Colleges of Education 2005
- Invited to join the Carnegie Corporation of New York – Teachers for a New Era
- State and National Accreditation
- Proven and promising practices
- Partnerships with eleven Florida school districts
- High quality teacher education programs
- Leadership in reform efforts
- Strength of faculty and students
- Broad influence in higher education community
- Access to cutting edge educational technologies
- Opportunities to become involved in professional education organizations
- State-of-the-art facilities
- UCF Academy for Teaching, Learning and Leadership
- Toni Jennings Exceptional Education Institute
- Florida’s Literacy and Reading Excellence Center (FLaRE)
- Lockheed Martin Academy for Mathematics and Science
- Progress Energy Leadership Institute
- Consortium for Social Responsibility and Character in Education
- Early and continuous field experiences
- Internships with highly qualified teachers
- Infusion of multicultural education, ESOL and technology throughout classes
- Majors in Early Childhood, Elementary, Exceptional and English Language Arts Education graduate with an ESOL Endorsement
- Majors in Elementary and Exceptional Education also graduate with a Reading Endorsement
- Graduates from state approved initial teacher preparation programs are eligible for professional teacher certification

Admission to the College of Education
Admission to the College will be granted when students meet the following requirements:

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA; a minimum 2.75 overall GPA is required for Early Childhood Education.
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted). It is highly recommended students take and pass the KGT in the Spring Semester of their Sophomore year.
- Complete education program prerequisite courses with a minimum letter grade of “C-” (1.75) or better.

Transfer Notes:
Courses transferred from other institutions must be evaluated for equivalency credit. The student must provide all supporting information. Students transferring from a Florida Public Community College are cautioned to pay careful attention to the General Education and Program Prerequisites sections of their intended major. Students are responsible for all ESOL assignments for UCF ESOL-infused courses that may be transferred from other institutions.

New students will:
- Meet college advising representatives in a group setting during Orientation.
  a. Discuss College of Education admission requirements needed for enrollment in upper division education classes
  b. Review degree program requirements
  c. Understand expectations and responsibilities associated with a career in education
- Be advised by the College of Education Office of Student Affairs (ED 110) if their major is Education Pending. An appointment is recommended (407) 823-3723.
- Be assigned to a faculty advisor in the area of their major upon completion of College of Education admission requirements. The faculty advisor’s name and telephone number appear on the SASS Degree Audit and in my.UCF.edu to assist students in making an advising appointment.
- Purchase and utilize LiveText software at the beginning of the first semester of enrollment in the College of Education based on program requirements.

Continuing students will:
- Set up an appointment with their faculty advisor upon acceptance to their major, or the Office of Student Affairs, 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;
- View a SASS Degree Audit through my.UCF.edu;
- Register at scheduled appointment time in my.UCF.edu. Students must complete any changes to their schedules by the end of the published Add/Drop period;
- Utilize LiveText software based upon program requirements; and
- File an “Intent to Graduate Form” in the College of Education by the end of the term prior to the term in which graduation is intended.

Office of Student Affairs
Executive Director: Tina Smilde, ED 110, 407-823-3723
Located in the Education Complex in Suite 110, the Office of Student Affairs is dedicated to facilitating the success of students seeking advisement, assistance, and support in the College of Education. The Office of Student Affairs is composed of Clinical Experiences, Minority Programs in Education (MPE), and Student Services.

Mission Statement
The mission of the College of Education Office of Student Affairs is to provide seamless services and resources to current and prospective students including recruitment, pre-advising, orientation, program advising, financial assistance, internships, graduation certification, and postgraduate education. To promote student success, we collaborate with and support College of Education faculty, administrators, and community partners.

Clinical Experiences
Director: Carolyn Walker Hopp, ED 110, 407-823-2436
http://clinicalexperiences.education.ucf.edu
Clinical experiences provide students with a broad range of instructional experiences in various school settings developed through cooperative planning with local school district administrators and teachers. Clinical experiences are an integral part of every degree program and consist of early field experiences as well as Internship I and Internship II. Placement of students is the responsibility of the College of Education.

Students must be aware: if they have been arrested for certain crimes, they may not be able to be placed in internships and/or hired as a teacher. All school districts require fingerprinting prior to Internship I. Some school districts also require drug testing. All applications for internships are made through the office of Clinical Experiences.

Application deadlines for all Internships are as follow:
- February 15 for Fall semester
- September 15 for Spring semester

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

- Have on file in the University admissions office passing scores on all 4 parts of the Florida Teacher Certification Examination General Knowledge Test and/or College Level Academic Skills Test (CLAST) (no alternatives or waivers are accepted).
- It is highly recommended students take and pass the FTCE Professional Education Test before applying for Internship I.
- Possess minimum overall GPA of 2.5;
- Possess minimum specialization GPA of 2.5
- Possess minimum professional preparation GPA of 2.5
- Achieve a “C-” (1.75)* or better in all prerequisite methods/specialization courses. However, a minimum overall GPA of 2.5 is required in the professional, specialization, and overall for admission to Internship I.
- Complete a formal application for Internship I online by deadlines listed above
- Meet any special departmental or program requirements
- Be recommended by the faculty of the department of the student’s major

Internship I is a three semester hour experience. Students are assigned to work with certified supervising teachers under the direction of a university coordinator. Students are enrolled in a limited number of related professional courses during the experience.
College of Education

Additional courses may be taken only with the consent of the academic program coordinator and department chair.

Admission to Internship II
Internship II is a 9-12 semester hour experience (depending on the program) normally completed during the student’s last semester. Internship II, with the associated Internship II seminar when applicable, is considered a full-time experience. Students are permitted to enroll in other classes only with the consent of their academic program coordinator and department chair. Admission to Internship II will be granted when students have met the following requirements at the time of application.

- Successful completion of Internship I
- Have on file passing scores on all 4 parts of the Florida Teacher Certification Examination General Knowledge Test and/or College Level Academic Skills Test (CLAST) (no alternatives or waivers are accepted)
- It is highly recommended that students take and pass the FTCE Subject Area Exam before applying for the Internship II.
- Possess a minimum overall GPA of 2.5*
- Possess minimum professional preparation GPA of 2.5*
- Possess minimum specialization GPA of 2.5*

Achieve a “C-” (1.75) or better in all prerequisite methods/specialization courses, and a minimum GPA of 2.5* is required in the professional preparation and specialization areas. However, a minimum overall GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.

- Complete a formal application for Internship II by the published deadline
- Be recommended by the faculty of the department of the student’s major
- Meet any special departmental or program requirements

Students must also have completed all methods courses and most of their specialization courses. Some programs 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.

*Some programs may specify a different GPA requirement for admission

Minority Programs in Education (MPIE)
Coordinator: Andrea Ramirez, ED 110; 407-823-0184
http://mpie.education.ucf.edu

Minority Programs in Education (MPIE) is designed to recruit and retain diverse students as they prepare for a career in education. MPIE provides future educators with financial assistance, academic support, and professional development. Each student admitted into the program is paired with a faculty mentor in the College.

Program Objectives
- Recruit and retain diverse students interested in careers in teaching
- Promote academic excellence and foster professional development
- Assist in job placement
- Encourage community involvement and commitment

Scholarship Requirements
Students must meet the following criteria:
- Eligible groups: African-American/Black, Asian-American/Pacific Islander, Hispanic, or American Indian/Alaskan Native
- Be a Florida Resident
- Be admitted into the UCF-College of Education as a degree-seeking undergraduate student
- Minimum semester and overall grade point average of 2.5
- Submit Scholarship Application
- Successful interview with the Scholarship Application Review Committee
- Submit two letters of recommendation and current resume
- Complete 40 hours of community service for each year the scholarship is received

Application deadlines:
July 1 for Fall semester
November 15 for Spring semester

Student Services
Director: Andrea Withington, ED 110; 407-823-3723
http://studentservices.education.ucf.edu/

Student Services assists students with orientation, registration information, general academic advisement, college and University academic requirements and graduation certification. Education Pending majors are advised in Student Services. Students are assigned a fac-
Several graduate level programs are available in the department:
A master’s level program is available in Early Childhood Development and Education. A Master of Education program is available in Early Childhood Education for teachers already certified Pre-K - 3rd.
The Master of Education in Exceptional Education: Exceptional Student Education is available for teachers already certified in an area of exceptional education, whereas the Master of Arts in Exceptional Student Education is designed for non-education majors or previously certified teachers in another field. Each program may lead to teacher certification.
Master’s level programs are available in Counselor Education with an emphasis on school counseling or mental health counseling. A Specialist Program is available in School Psychology. A graduate level certificate program is available in Sports Leadership. The Ph.D. in Education is available with 6 tracks.

Department of Teaching and Learning Principles
Chair: Michael Hynes; ED 209-D; 407-823-4836
Assistant to the Chair: Lawrence Mione, ED 206-C; 407-823-0523 and Brenda Thompson, ED 206-D; 407-823-1763


Elementary/Middle Education
The Elementary Education program is designed for prospective teachers interested in the education of children, five through twelve years of age. Students who major in elementary education are qualified to teach grades kindergarten through six upon graduation and receipt of a Florida teaching certificate.

Secondary/Post Secondary Education and Training
Programs in this area are designed for prospective teachers/trainers interested in working with students in a specific academic or vocational area in middle/junior high school, high school, selected post-secondary educational settings, and selected technical training settings in business and industry. Specialization is available in Biology, Chemistry, English, Mathematics, Physics, and Social Science Education, Sports and Fitness, and Technical Education and Industry Training. Graduate level programs are available in Art Education, Elementary Education, English Language Arts Education, Educational Media, K-8 Mathematics and Science Education, Mathematics Education, Physical Education, Science Education, Social Science Education, Reading Education and Vocational Education. The Ph.D. in Education is available with tracks in Mathematics Education and Elementary Education.

K-12 Education
Programs in this area are designed for prospective teachers in content areas that may be applied in any school setting from Kindergarten through grade twelve. Specialization is available in Art, Foreign Language (French or Spanish), and Physical Education.

Department of Educational Research, Technology and Leadership
Chair: Conrad Katzenmeyer; ED 209-H; 407-823-4835
Assistant to the Chair: Michelle Spinella; ED 206-B; 407-823-0623


The Department of Educational Research, Technology and Leadership provides graduate programs in the following areas:
College of Engineering and Computer Science

Dean:  Neal C. Gallagher; HEC 114; 407-823-2156
http://www.cecs.ucf.edu

Executive Associate Dean:  Debra Reinhart; HEC 114; 407-823-2156
Associate Dean for Academic Affairs:  J. F. Nayfeh; ENGR 107; 407-823-2455
Assistant Dean for Distributed and Distance Learning:  Alfred Ducharme; ENGR 289; 407-823-5765
Director, Academic Support Services:  Melissa Dagley-Falls; ENGR 107; 407-823-2455
Director, College Honors Programs:  Mohamed Abdel-Aty; ENGR 301H; 407-823-5657
Interim Director, Minority Engineering & Computer Science Programs:  Bruce Furino; ENGR 281; 407-823-3466

Undergraduate Majors and Degrees

Aerospace Engineering  BSAE
Civil Engineering  BSCBE
Computer Engineering  BSCpE
Computer Science  BS
Construction Engineering  BSConE
Electrical Engineering  BSEE
Electrical Engineering Technology - Computer Systems Concentration  BSEET
Electrical Engineering Technology - Electrical Systems Concentration  BSEET
Electrical Engineering Technology - Photonics Concentration  BSEET
Engineering Technology - Design Concentration  BSET
Engineering Technology - Operations Concentration  BSET
Engineering Technology - Space Systems Concentration  BSET
Environmental Engineering  BSEnvE
Industrial Engineering  BSEIE
Information Systems Technology  BS
Information Technology  BS
Mechanical Engineering  BSEM

Accelerated BS/MS Degree Program

All of the Engineering and Computer Science departments except for the Departments of Civil and Environmental Engineering, Engineering Technology, and the Information Technology Program are offering an Accelerated BS/MS degree program which will allow students of high academic standing to complete an MS degree at an accelerated pace. The generic rule for students in this program is that they will be allowed to use up to twelve hours of selected 5000 and 6000 level courses with a grade of “B” or higher toward fulfillment of both the BS and MS degree requirements. Interested individuals should see the program descriptions in the graduate and undergraduate catalogs. They may also contact the department Assistant Chair and/or Graduate Coordinator if they have any further questions.

College Vision

The College of Engineering and Computer Science (CECS) at the University of Central Florida will be recognized nationally and globally for undergraduate and graduate education, research and partnership. CECS will strive to become a top 50-ranked college within the next 5 years, and a top 25-ranked college within the next 10 years. CECS will achieve high standards in all aspects of education, research and technology application. These accomplishments will take place in a College dedicated to diversity, quality, resource expansion and partnerships throughout all of its operations and programs.

College Mission Statement

The CECS primary mission is to further the knowledge and practice of the engineering and computer science professions nationally and internationally by:

- Providing the highest quality and innovative learning/teaching environment in undergraduate and graduate curricula, to prepare a diverse student body to be effective, contributing members of a technological society and life-long learners.
- Expanding the knowledge base of engineering and computer science through dynamic research and applying new discoveries for problem solving.
- Providing collaborative leadership with external partners in advancing technological breakthroughs for the economic and social well being of humankind.
- Extending educational opportunities to technology practitioners locally, nationally and globally to enhance human performance, and economic and technical development.

College Core Values

- Honesty: Tell the truth and be aboveboard and candid.
- Integrity: Foster trust and be accountable for one’s actions.
- Professionalism: Adhere to a professional code of ethics, continuing to learn while striving for excellence.
- Family: Pursue life outside of the professional environment, giving family a priority.
- Altruism: Work as a team; help each other; and sacrifice for the common good. Understand that each individual’s work is part of a larger purpose and plan.

College Goals

- A national caliber, diverse College that is recognized with leadership in research and teaching.
- Distinguished, innovative undergraduate programs to provide graduate-like education for undergraduates.
- High quality graduate education to meet the needs of Florida and the U.S. and to achieve national and international prominence.
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 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 (EECS) and three engineering departments: the School of Environment (ECS) Department, the Industrial Engineering and Management Systems (IEMS) Department, and the Mechanical, Materials and Aerospace Engineering (MMAE) Department. The School of Electrical Engineering and Computer Science is comprised of the Computer Science Department, and Information Technology, and Electrical and Computer Engineering. The Engineering Technology Division is comprised of the Engineering Technology (ENT) Department, and the ROTC Division is made up of the Aerospace Studies Department (Air Force ROTC) and the Military Science Department (Army ROTC).

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

The Engineering Technology Division and Department offers baccalaureate concentrations in Design, Operations and in Space Sciences, leading to the Bachelor of Science in Engineering Technology (BSET) degree, and concentrations in Electrical Systems, Computer Systems, and in Photonics, all leading to the Bachelor of Science in Electrical Engineering Technology (BSEET) degree. Both the BSET and BSEET, with the exception of the new Photonics concentrations, 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 mission statement and objectives for the Civil Engineering and Computer Science Programs vary.

### Educational Objectives
1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Civil Engineering such as structures, geotechnical, 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. Develop 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.

### Program Objectives
Within the first several years following graduation, graduates should:

- Be successfully employed or employable in civil engineering practice in areas such as structural, geotechnical, transportation, construction, water resources, or related fields and/or be continuing their studies at the graduate level.
- Show a commitment to ethical practice and professional development by extending their knowledge through continuing education and self-directed life-long learning, professional licensure, and service to the profession and society.

### Educational Objectives
1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Civil Engineering such as structures, geotechnical, 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. Develop 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 Computer Science Programs vary.

### Program Objectives
Within the first several years following graduation, graduates should:

- Be successfully employed or employable in civil engineering practice in areas such as structural, geotechnical, transportation, construction, water resources, or related fields and/or be continuing their studies at the graduate level.
- Show a commitment to ethical practice and professional development by extending their knowledge through continuing education and self-directed life-long learning, professional licensure, and service to the profession and society.

### Educational Objectives
1. Produce graduates who have technical knowledge that is fundamental to the principles of critical areas of Civil Engineering such as structures, geotechnical, 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. Develop 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 elsewhere in this catalog.
COLLEGES

College of Engineering and Computer Science

Environmental Engineering programs can be found on the CEE Department home page at http://www.cee.ucf.edu.

Department Policy for Double Major in Civil and Environmental Engineering

The faculty of the Civil and Environmental Engineering Department believe that a double major from our department should reflect a significant achievement of students, and therefore a significant increase in knowledge and formal coursework above the requirements for a single degree. Any undergraduate in Civil or Environmental Engineering desiring to obtain a double major disciplines shall meet the following requirements:

- the student shall meet all individual requirements for each degree
- the coursework must include two different capstone design courses, one from each program
- the student shall notify the Chair of his or her intent to pursue a double major by the start of the final academic year (3 semesters) of coursework, and shall have a “program of study” prepared and approved by the Chair
- completion of requirements for both the double major must be in the same semester.
- the same catalog year must be used for both majors

Additional notes:

- All students, by meeting the requirements for each degree, will be able to represent themselves as either a Civil Engineer or an Environmental Engineer or both.
- The double major program for a student must be approved by the Chair in the final year. This eliminates last-minute confusion by the student and allows the Chair time to review the technical elective, and the specific design courses being taken by each student.
- The extra hours represent at least one additional semester of full time enrollment, and represents the minimum requirements for the double major.
- The 16 hours of extra courses required for Civil Engineering majors would include all the required courses of Environmental Engineering: CHM 2046L, EES 4202C, EES 4110C, ENV 4120, ENV 4341, and a Biological or Earth Science, whichever course was not taken to satisfy the GEP.
- The 18 hours of extra courses required for Environmental majors includes all the required courses of Civil Engineering, namely: SUR 2101C, CEG 4100C, CEG 4101C, TTE 4004, and either CES 4605 or CES 4702.
- The double major will be so indicated on one diploma. If a student desires two separate diplomas, a B.S.C.E. and a B.S.Env.E, this is permitted for students who have a minimum of 150 credit hours.

School of Electrical Engineering and Computer Science

Director: Issa Batarseh; HEC 437; 407-823-2750


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 SCS. To learn about the current status of research facilities and projects, visit faculty web pages. These may be found by following links from the computer science home page at http://www.cs.ucf.edu/

Mission

The mission of the Computer Science program is to educate majors in the principles and practices of computer science, preparing them for graduate school, for careers in software development and computing technology, and for a lifetime of learning.

Objectives

1. CS majors should be practiced in the design and analysis of algorithms using mathematical and statistical methods and techniques.
2. CS majors should be proficient in the use of modern and widely-used programming languages.
3. CS majors should be practiced in abstract reasoning and modeling of complex real-world systems.
4. CS majors should be practiced in oral and written communication skills, particularly as these skills apply to the dissemination of technical information on subjects dealing with computing technology and applications.
5. CS majors should be practiced in the use of state-of-art software development methodologies, tools and language.
6. CS majors should be highly competitive in securing entry-level positions in software and computer system development industries.
7. The top fifteen percent (15%) of all graduating CS majors shall be qualified and prepared for pursuing graduate studies in the top tier graduate schools in Computer Science.

The Information Technology Program

The Information Technology program offers courses leading to the Bachelor of Science degree in Information Technology. Information Technology encompasses computer hardware, software, peripheral devices and their use in communication networks and information systems. IT-related disciplines include database engineering, network engineering, performance planning, system security, digital media design, and web server design. The program provides students a strong conceptual core, which will prepare them to be lifelong learners, along with significant hands-on experience. The inclusion of advanced courses in technical writing, a course in ethics, and 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.

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, EEL 3004, and progress to the senior design capstone courses. This senior design experience is a two-semester sequence totaling six credit hours. Aspects of engineering economics, administration, oral presentation, professional issues such as ethics, safety and environmental impact are also covered in the design courses. The design projects required in the design course sequence address real-life problems, and the students work in a team setting. Also, several projects are developed jointly with our industrial partners.

The Computer Engineering Program

The Computer Engineering program contains a minimum of 24 credit hours of design experience, which includes courses listed as Computer Systems Design I and II (EEL 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), Networks and Systems (EEL 3123C) and Digital Circuits and Systems (EEL 3342C). Technical electives can give additional design experience leading to work in communications, controls, image and signal processing, microelectronics and solid state devices, microwaves and electromagnetics, optical engineering, and power/power electronics.

Mission

The mission of the Bachelor of Science in Electrical Engineering Degree Program is to educate students to become highly skilled in the principles and practices of electrical engineering and develop electrical engineers that meet market needs.

Objectives

1. Graduates will acquire sufficient academic competence in fundamental math, science, and engineering principles for employment in electrical engineering.

2. Graduates will acquire sufficient academic competence for advanced graduate studies.

3. Graduates will demonstrate overall competence in the electrical engineering discipline, including the ability to design systems and 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 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.ece.ucf.edu.

School of Electrical Engineering and Computer Science Policies and Procedures

The School’s web site (http://www.eecs.ucf.edu) is a central point from which visitors may view current policies and procedures of our programs. In particular, links from this page provide up-to-date answers to frequently asked questions (FAQ’s) concerning academic advisement, student professional societies, undergraduate research opportunities, and means to effectively communicate concerns (comments, suggestions, complaints). We ask that you visit this site and follow its guidelines before you send e-mail and letters, or make phone calls to faculty members and administrators.

Department of Industrial Engineering and Management Systems

Interim Chair: Christian Bauer, Jr; ENG2 312; 407-823-2204; Fax 407-823-3413


Industrial Engineers work to continuously improve the design of systems, processes, or products. They design systems that translate a specific product design into a physical reality in the most productive manner and with the 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 system of organizations. In the service sector, the industrial engineer is concerned with determining the most productive manner in which to deliver high-quality service to the customer. In government organizations the industrial engineer is active in assuring that tax payers receive maximum service for their tax dollars.

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

Engineering design experiences are incorporated into many of the required industrial engineering core courses. For instance, students learn how to apply the principles of engineering design to production systems and cost estimation in EIN 3354, to work methods and process flows in EIN 3314, and to facilities design and plant layout in EIN 4364. The design experience concludes with a real-world sys-
Mission
To produce industrial engineering professionals and leaders who, working alongside their coworkers, can design and improve operations in industry, business, and government, making them more productive, more responsive, and producing goods and services of higher value to the customer for the global economy of the 21st century.

Objectives
1. BSIE graduates will demonstrate knowledge of math, science, and engineering fundamentals. Specifically, the student will have the ability to:
   - Demonstrate general design principles.
   - Use fundamental engineering techniques, skills, and tools for engineering practice.
   - Analyze and interpret data to produce meaningful conclusions and recommendations.
2. BSIE graduates will demonstrate competence in the professional practice of industrial engineering, effectively using both technical and qualitative skills. Specifically, the student will have the ability to:
   - Design systems, components, and processes to meet desired needs.
   - Identify, formulate, and solve industrial engineering problems.
   - Use industrial engineering techniques, skills, and tools for engineering practice.
   - Be a productive member of multi-disciplinary teams.
   - Communicate effectively in both written and spoken presentations.
   - Incorporate contemporary issues into the practice of industrial engineering, including global communication.
   - Have the knowledge to become a Professional Engineer (PE) in the IE discipline.
3. BSIE graduates will understand the leadership responsibilities of a practicing engineer. Specifically, the graduate will understand the need to:
   - Make decisions in light of professional and ethical responsibilities.
   - Understand the impact of engineering solutions in a global and societal context.
   - Understand contemporary issues in the practice of industrial engineering.
   - Engage in 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, Bishop, Brandenburg, Q. Chen, R. Chen, Chew, Cho, Chow, Coffey, Fang, Fenton, Gordon, Illegbsiu, Johnson, Kalita, Kapat, Kassab, Klemenz, Leonessa, Lin, Minardi, Mosleh, Nayfeh, Nicholson, Orlovskaya, Peterson, Seal, Sohn, Suryanarayana, Vaidyanathan

The Department of Mechanical, Materials, and Aerospace Engineering offers undergraduate degree programs in Mechanical Engineering and Aerospace Engineering. The Aerospace Engineering program is designed to provide a broadly-based foundation in aeronautics and astronautics, including topics such as aerodynamics, propulsion, aerospace structures and materials, flight dynamics, and control and performance.

The Mechanical Engineering program is designed to provide a broadly-based foundation in thermo-fluids, mechanical systems and materials, including topics such as solid mechanics, machine design, vibrations, CAD/CAM/FEM, feedback control and mechatronics, fluid mechanics, heat transfer, and structure and properties of materials.

Both programs seek to convey an understanding of the fundamental principles of science and engineering, to stimulate curiosity and creativity, to provide hands-on experience in laboratories, and to prepare students to design systems which solve current and relevant societal problems. The design experience begins in the freshman engineering courses and grows throughout the curricula with increased emphasis on student creativity, open-ended problems, materials selection, design methodology, feasibility considerations, alternative solutions, and concurrent design, and culminates in the senior capstone design courses. The use of computers and written and oral communication are part of the design experiences throughout the programs.

Mission: Aerospace Engineering
In support of the University and College missions, the Aerospace Engineering program at UCF is committed to providing the highest quality aerospace engineering professionals and leaders. Through cooperative efforts with regional aerospace industry and the Florida Space Institute, our graduates will be well prepared for their role as aerospace engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be life-long learners, pursuing their personal and professional development. Through these characteristics our graduates will be able to rise to positions of prominence in the technical society of tomorrow.

Aerospace Engineering Program Educational Objectives and Outcomes

Career Preparation: The program prepares graduates for employment as engineers in aerospace or allied disciplines, and for graduate study in engineering, business, or allied areas. Students will emphasize aeronautical systems or space systems, and will have a command of corresponding engineering principles. Among the obvious career opportunities are the design and development of aircraft, missiles, and spacecraft systems. Aerospace technologies are also important and applicable to power applications such as turbomachinery. Also, many environmental problems associated with wind effects on buildings, structures, etc., are appropriate to the methods and technology of aerospace engineering.

Skills: To prepare graduates with skills enabling them to be productive in their chosen career. These tools include understanding contemporary topics in aerospace technology, command of modern engineering tools, design experience, and professional experience appropriate to their post-graduation goal.

Professionalism: To produce graduates who communicate effectively, who understand and undertake professional responsibilities, and who function effectively as members and leaders of multidisciplinary teams.

Life-long Learning: To produce graduates who believe that their undergraduate aerospace engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

Mission: Mechanical Engineering
In support of the University and College missions, the Mechanical Engineering program at UCF is committed to providing the highest quality engineering professionals and leaders. Through cooperative efforts with regional industry, our graduates will be well prepared for their role as mechanical engineers in society and will have an awareness of ethical, environmental, economic, safety, and quality issues. They will be educated to be life-long learners, pursuing their personal and professional development. Through these characteristics our graduates will be able to rise to positions of prominence in the technical society of tomorrow.

Engineering Program Educational Outcomes and Objectives

Career Preparation: The program prepares graduates for employment as engineers in mechanical or allied disciplines, and for graduate study in engineering, business, or allied areas. Students will emphasize mechanical systems, energy systems, or materials, and will have a command of corresponding engineering principles. Among the career opportunities are power generation, manufacturing, nuclear applications, from zipper to space shuttle.
Skills: To prepare graduates with skills enabling them to be productive in their chosen career. These skills include understanding contemporary topics in mechanical technologies, command of modern engineering tools, design experience, and professional experience appropriate to their post-graduation goal.

Professionalism: To produce graduates who communicate effectively, who understand and undertake professional responsibilities, and who function effectively as members and leaders of multidisciplinary teams.

Life-long Learning: To produce graduates who believe that their undergraduate chemical engineering education was a wise investment and who desire to continue to develop their knowledge and skills throughout their careers.

Department of Engineering Technology
Chair: R. Eaglin; ENGR 207; 407-823-5937, Fax 407-823-4746
Program Coordinator BSET Programs: L. Morse; ENGR 207; 407-823-4742
Program Coordinator BSET Programs: A. Rahrooh; ENGR 207; 407-823-4748
Program Coordinator Information Systems Technology: B. Motlagh; ENGR 207; 407-823-4748
Faculty: Ali, Burroughs, Cowar, Craiger, Divo, Ducharme, Mehrabian, Misconi, Morse, Motlagh, Osborne, Rahrooh, Shepard

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

Bachelor of Science in Electrical Engineering Technology (BSET)
This program in electrical engineering technology, leading to the BSET degree, provides a structured curriculum with instruction in fundamentals and engineering principles applicable toward working with both present and future technologies in a variety of work environments. Graduates may find employment opportunities in such diverse fields as aerospace, instrumentation, computers, communications, consumer products, banking and education. They may become involved in applied design, product development, manufacturing, quality assurance, production and operations as well as activities such as field engineering, sales, system analysis, technical writing and software design, preparation and programming.

The EET program provides three paths of concentration, there-by providing the student a choice between either a hardware or a software emphasis. The concentration in Electrical systems provides a broad based curriculum in electrical/electronic engineering principles, and their application. Instruction and problem solving experiences are provided in both circuit and system aspects including computers, communications, controls and electrical power. The concentration in Computer Systems, while providing a firm foundation in electrical/electronics technology, also includes extensive instruction in programming, system design and analysis, and systems programming. Projects in solving real-world problems are required of all students in this concentration. The concentration in Photonics provides a background in optics, lasers, electrical systems, and the use and theory of light. It is designed to provide the necessary education for a career in the photonics industry.

Program Educational Objectives:
1. Students will demonstrate an appropriate mastery of the knowledge, techniques, skills, and modern tools of industrial operations, design, space science, or geomatics.
2. Students graduates will demonstrate an ability to apply current knowledge and adapt to emerging applications of industrial operations, design, space science, or geomatics.
3. Students graduates will demonstrate an ability to conduct, analyze, and interpret experiments within industrial operations, design, space science, or geomatics.
4. Apply creativity through the use of team-based work to design and plan projects.
5. Students will demonstrate problem-solving competencies for technical problems.
6. Students will demonstrate competence in written and oral communication.
7. Students will recognize the need to engage in lifelong learning through formal and informal study.
8. Students will demonstrate an understanding of professional, ethical, and social responsibilities.
9. Have a respect for diversity, and a knowledge of contemporary professional, social and global issues.
10. Students graduates will display a commitment to quality, timeliness, and continuous improvement.

Bachelor of Science in Engineering Technology (BSET)
The BSET curriculum consists of a carefully integrated program that includes professional studies, general education, and applied mathematics and sciences. Through the selection of the upper level technical concentration students can build and tailor their program, based on previous knowledge to assist them to launch a career that best meets their needs and aspirations. The Design concentration provides advanced course work in preparation for employment at the baccalaureate level in the fields of manufacturing, testing and fabrication of mechanical parts, and the building and construction industries. Graduates may become involved in applied design, product development, manufacturing or production, to name but a few. The Operations concentration provides an orientation for professional careers in technical management and operations in the manufacturing, sales, services, and construction industries. Graduates may become involved in many diverse areas including product development, quality assurance and logistics, sales, field engineering, technical writing and safety. The Space Science Technology concentration prepares students for a career in launch and space operations, payload management, and other requirements to work in the space industry. Projects in solving real-world problems are required of all students in the BSET program. In addition to the engineering technology core, all concentrations in the BSET program have a common lower division core as well as a common upper division core.

Program Educational Objectives:
1. Students will demonstrate a broad knowledge of electrical/electronics engineering technology practices to support design, application, installation, manufacturing, operation, and maintenance as required by their employer.
2. Students will be able to apply basic mathematical and scientific principles for technical problem solving in areas which include circuit analysis of both analog and digital electronics, microprocessors...
3. Students will be able to utilize computers and software in a technical environment
4. Students will demonstrate competence in written and oral communications
5. Students will be able to work effectively as an individual and as a member of a multidisciplinary team
6. Students will be able to show awareness of social concerns and professional responsibilities in the workplace and
BSET Program Outcomes:
Graduates will be able to:
1. Demonstrate an appropriate mastery of the knowledge, techniques, skills, and modern tools of industrial operations, design, space science, or geomatics.
2. Demonstrate an ability to apply current knowledge and adapt to emerging applications of engineering and technology within industrial operations, design, space science, or geomatics.
3. Demonstrate an ability to conduct, analyze, and interpret experiments within industrial operations, design, space science, or geomatics.
4. Apply creativity in the design of projects within industrial operations, design, space science, or geomatics.
5. Demonstrate an ability to function effectively on teams.
7. Demonstrate written and oral communication competencies in Engineering Technology.
8. Recognize the need to engage in lifelong learning through formal and informal study.
9. Demonstrate understanding of professional, ethical, and social responsibilities.
10. Demonstrate a respect for diversity, and a knowledge of contemporary professional, social and global issues.
11. Display a commitment to quality, timeliness, and continuous improvement.

Bachelor of Science in Information Systems Technology (BS)
The Engineering Technology Department also offers the Bachelor of Science degree in Information Systems Technology (BS), designed to accept Associate of Science (AS) degree graduates from community college programs in Computer Programming Technology, Digital Communications, and Networking. The IST curriculum provides the AS graduate with additional course work in networking and computer systems. It also provides skills and knowledge related to project management in Information Technology. A characteristic of this curriculum is that it contains less mathematics and natural science than do the BSET and BSEE curricula.

Reserve Officer Training Corps
Air Force ROTC (Aerospace Studies)
Chair: Col. William G. Palmby; Trailer 501, Room 103; 407-823-1247; Fax 407-823-2265
Faculty/Staff: Captain Williams, Captain Ellingson, Captain Little, TSgt Fields, SSgt Crawford, and Mrs. 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-year program provides on-campus study during the freshman through senior years. The two year program allows community college transfer students and other students with two academic years remaining in either undergraduate or graduate status to earn an Air Force commission while completing their studies. All students who seek a commission through the Air Force ROTC must complete the POC curriculum. The curriculum involves the study of concepts of leadership and management in the Air Force and an analysis of the formulation and implementation of American defense policy.

Leadership Laboratory
Leadership Laboratory is a required lab that must be taken in conjunction with the academic class. Leadership Laboratory is only open to students who are members of the Reserve Officer Training Corps or are eligible to pursue a commission as determined by the Professor of Aerospace Studies.

Requirements for entry into the Professional Officer Course
- Be at least 17 years of age at the time of acceptance
- Be able to complete the Professional Officer Course and complete all degree requirements prior to reaching age 29 if entering Flight Training, or before age 30 (can be waived to age 35) if entering a non-flying Air Force specialty
- Pass the Air Force Officer Qualifying Test
- Pass an Air Force medical examination
- Pass the Air Force Physical Fitness Test each semester
- Selection by the Professor of Aerospace Studies
- Successful completion of a summer Field Training course (either four or six weeks)
- Enlistment in the Air Force Reserve certifying agreement to complete the POC and accept an Air Force Commission. This enlistment is terminated upon receipt of a commission.

Monetary Allowance
All contracted students enrolled in the Professional Officer Course receive a tax-free monetary allowance of $350 or $400 per month based on their academic classification.

Air Force ROTC Scholarship Program
Scholarships are phased at four, three, and two year opportunities. This system provides opportunities to those students enrolled in certain academic majors. Depending on state residency and credit hours, these scholarships may provide for full tuition and fees, and an allowance for textbooks. For additional information on Air Force ROTC call 407-823-1247 or visit our web site at http://airforce.ucf.edu or e-mail us at AFROTC@mail.ucf.edu. This information is subject to change.

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

Officer Commissioning
Students who complete the Professional Officer Course are appointed Second Lieutenants in the United States Air Force. After completing the training program and entering active duty, they will serve a minimum active duty tour which varies in length depending on their particular career area (typically four years). Such obligations are explained in detail during the one-on-one counseling sessions conducted with each candidate by detachment officers.

Army ROTC (Military Science)
Chair: LTC Bryce Christensen; Trailer 501, Room 110
Faculty/Staff: MAJ Fallon, CPT Cruce, CPT Rossario, MSG Celestine, MSG Neil, SFC South, Ms. Brown, Mr. Gonzalez; Ms. Betty Martin, Office Manager; 407-823-2430, Fax 407-823-5324 http://army.ucf.edu
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 $9500.00 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 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 (MSL 3101, 3202, 4301, 4302), 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 $550.00 per month up to 10 months during their Junior year and $450.00 per month during the Senior school year. Each student is required to take courses that meet the Army’s Professional Military Education Requirements. Students must meet pre-requisite requirements and must obtain permission from the department chair prior to participating in the Advanced program course. They must also successfully complete a 32-day Leadership Development and Assessment Course 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 that 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 $450.00 or $500.00 per month during the school year.

4. Scholarships
   Four three and two-year scholarships are available for all students who qualify on a competitive basis. These scholarships provide full tuition, books and fees for Fall and Spring semesters. In addition, all contracted scholarship students also receive the $300.00, $350.00, $450.00, or $500.00 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) 239-6469. Students will participate in a Field Training Exercise (FTX) and will commission, if qualified, with Embry-Riddle.

Summer Training Courses
1. Basic Course Summer Training (Leader Training Course)
   A student can earn placement credit for the Basic Course classes and allowed entry into the Advanced Course by attending a six-week course at Fort Knox, Kentucky, thereby allowing completion of all requirements for commissioning within two years. Students attending the summer course receive approximately $700.00 pay. Additionally, all lodging, meals and transportation are furnished. Uniforms will be provided at no expense.

2. Specialized Summer Training Courses
   Qualified students can be selected to attend specialized military training occurring the summer months. These areas of training include: a) Airborne Training; b) Air Assault Training; c) Northern Warfare Training; d) Cadet Troop Leadership Training; e) Master Fitness Training; and f) Mountain Training.

3. Leadership Development and Assessment Course (LDAC)
   All students must attend and successfully pass a five week camp conducted at Fort Lewis Washington prior to receiving a commission as an Army Officer. This camp evaluates a student’s leadership performance and potential. LDAC waives the 9 hour summer school requirement for Army ROTC Cadets. Students normally attend LDAC the summer following their junior year and receive approximately $800 pay for the training.
College of Health and Public Affairs

Interim Dean: Joyce E. Dorner, HPA 365, 407-823-0171
http://www.cohpa.ucf.edu

Associate Dean, Graduate Studies and Technology:
Stephen Holmes, HPA 365, 407-823-0171

Associate Dean, Undergraduate Studies: Pamela Kirby, HPA 365, 407-823-0171

Associate Dean, Student/Personnel Affairs: Melvin Rogers, HPA I 365, 407-823-0171

Associate Dean, Research: Thomas Wan, BNT 108, 407-823-0170

The College of Health and Public Affairs houses five departments and schools: the School of Social Work, and the departments of Communication Sciences and Disorders, Criminal Justice and Legal Studies, Health Professions, and Public Administration.

The College fosters excellence in undergraduate and graduate education, research and community services in health, social and justice services. In addition to a PhD program in Public Affairs the College houses both undergraduate and graduate interdisciplinary programs that contribute to a solid educational foundation in public affairs.

General Requirements for the Bachelor's Degree

Some Schools, Departments or Programs in the College are upper division, limited access programs. Acceptance by or registration at the University does not constitute admission to the following: School of Social Work, and the Programs in Athletic Training, Cardiopulmonary Sciences, Health Information Management, and Radiologic Sciences.

Application must be made to the appropriate program. Additional information regarding prerequisites and minimum grade point averages may be obtained from the desired School, Program, Department, or College website.

The following Departments and Programs do not have restrictions on admissions: Communication Sciences and Disorders, Criminal Justice, Legal Studies, Public Administration, Health Sciences - Pre-Clinical Allied Health Track, and Health Services Administration.

Academic Advisement

Office of Undergraduate Student Services

Director: Judith A. Sindlinger, HPA2 115, 407-823-0010,
E-mail: hpainfo@mail.ucf.edu

The College of Health and Public Affairs Office of Undergraduate Student Services assists undergraduate students in understanding college and university requirements and procedures as well as coordinating orientation, registration and graduation certification. Students interested in pursuing limited access programs are encouraged to meet with advisors in the college to stay on track by taking the appropriate prerequisite requirements. Advisors are available through the Outreach Program for students on probation or for those who are having academic difficulty. Questions concerning university and college academic policies should be directed through this office. Faculty advisors are assigned to students upon admission to their degree program in their academic department.

Programs and Degrees

Major Degree

Cardiopulmonary Sciences BS
Communication Sciences and Disorders BA, BS, MA
Criminal Justice BA, BS, MS
Health Information Management BS
Health Sciences - Athletic Training BS
Health Sciences - Pre-Clinical Allied Health Track BS
Health Services Administration BS, MS
Legal Studies BA, BS
Public Administration BA, BS, MPA, MNM
Public Affairs PhD
Physical Therapy DPT
Radiologic Sciences BS
Social Work BSW, MSW

Department of Communication Sciences and Disorders

Chair: R. J. Lieberman, HPA2 101, 407-823-4798
http://www.cohpa.ucf.edu/comdis

Undergraduate Coordinator: Jamie Schwartz
Clinic Director: C. Harvey, Research Pavilion Suite 155, 407-249-4770

Faculty: Barnes, Barrett, Carson, DiNapoli, Dreilinger, Giess, Greenwood, Harden, Harvey, Hostetter, Kent-Walsh, Lieberman, Nye, Parsons, Ratusnik, Riess, Rivers, Rosa-Lugo, Ruddy, Ryalls, Schwartz, Utt, Varneyckeghem, 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 Communication Sciences and Disorders is pre-professional in nature and reflects the scientific foundations of the discipline. The three primary goals of the undergraduate program are: 1) to provide students with the necessary preparation for graduate study in speech-language pathology, audiology, or related fields such as special education, social work, and health services administration; 2) to seek careers in health and human services; and 3) to obtain licensure and employment as a speech-language pathology or audiology assistant.
The graduate program prepares speech-language pathologists for work with children and adults experiencing a variety of communication disorders in schools, hospitals, rehabilitation centers, community speech, language and hearing centers, and physician’s offices. The graduate program has been accredited by the Council on Academic Accreditation of the American Speech-Language-Hearing Association since 1986. Students should plan their major or minor in consultation with a departmental advisor to meet their individual interests and career objectives.

In addition to course work in communicative sciences and disorders, the Department offers an array of courses in American Sign Language and related topics.

**Degrees:** Communication Sciences and Disorders (BA, BS, MA)

**Tracks:** None

**Minors:** Communication Sciences and Disorders, American Sign Language and Deaf Studies

**Certificates:** American Sign Language, Language Development and Disorders

### Department of Criminal Justice and Legal Studies

**Chair:** Robert Langworthy, HPA 311, 407-823-2603

**Faculty:** Applegate, Bast, Bohm, Cook, Craig, Eastep, Fabianic, Flagg, Flint, Ford, Griset, Holmes, Kirby, Koblasz, Lanier, Lucken, Mahan, Malendevych, B. McCarthy, Milton, Myers, Paoline, O’Gorman, Randall, Reynolds, Ross, Russo, Sanborn, Scott, Slaughter, Surette, Watkins, Winton, Wolf, Wood.

The Department of Criminal Justice and Legal Studies includes two undergraduate degree programs: Legal Studies and Criminal Justice. The department supports Lambda Alpha Epsilon, the professional Criminal Justice fraternity, and Alpha Phi Sigma, the Criminal Justice Honor society and Phi Delta the Legal Studies professional society.

#### 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

**Certificates:** Crime Analysis and Crime Mapping, Criminal Profiling, Security Management, Victim Advocacy and Crime Scene Investigation

### Department of Health Professions

**Chair:** Diane M. Jacobs, HPA 210, 407-823-2359


The Department of Health Professions offers baccalaureate programs which prepare students for professions in the fields of Cardiopulmonary Sciences (Respiratory Care), Health Information Management, Athletic Training, Health Services Administration, and Radiologic Sciences. The Department also offers a degree in Health Sciences - Pre-Clinical Allied Health Track for those planning to go on to a graduate clinical professional program.

The mission of the Department is to provide quality undergraduate and graduate academic, administrative, and clinical instruction with an accent on educating future leaders of the health care system. The Department seeks first to strengthen existing programs, as well as to identify and develop new programs that fulfill a documented need for health care resources and technology. Another goal is to foster the development of knowledge through research, publications, and scientific presentations. Finally, the Department seeks to provide continuing education for the health care community and consumer health education.

The programs in Cardiopulmonary Sciences, Health Information Management, and Radiologic Sciences require a minimum overall GPA of 2.5 for consideration for admission and the Athletic Training program requires a minimum overall GPA of 2.75. In addition, for admission a minimum grade of “C” (2.0) is required for prerequisite courses and required courses within the program. These programs are all accredited by their national professional associations and graduates are prepared to take the appropriate examination for certification.

#### Program in Cardiopulmonary Sciences

**Director:** Jeff Ludy, HPA 210, 407-823-2214

The major in Cardiopulmonary Sciences (also known as respiratory care) leads to the Bachelor of Science Degree. In the professional curriculum, students study respiratory therapy skills, pharmacology, life support techniques, disease and patient assessment, and patient management. Upon completion of the undergraduate program, the baccalaureate prepared individual will possess basic patient care and advanced practice patient care skills and should be prepared to assume a future leadership role within the profession. Graduates will also be prepared to take the entry-level and advanced practice national examinations. These examinations will first lead to licensing by the State of Florida (CRT examination), and then to the advanced practice credential, Registered Respiratory Therapist (RRT examination).

The Cardiopulmonary Sciences program is accredited by the Committee on Accreditation for Respiratory Care in conjunction with CAAHEP of the American Medical Association. The cardiopulmonary sciences program is a limited access program and requires a separate application to the program submitted by February 1st of the year in which admission to the program is sought.

**Degrees:** Cardiopulmonary Sciences (BS)

**Tracks:** None

**Minors:** None

#### Program in Health Information Management

**Director:** Alice Noblin, 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 complete medical records 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 in collection and analysis of data for public health services planning.

The curriculum of the Health Information Management program is approved by the Commission on Accreditation for Health Informatics and Information Management Education (CAHIIM). This is a limited access program and requires a separate application to the program by March 1 of the year in which admission is sought. Graduates of the Health Information Management program are eligible to take the AHIMA Registered Health Information Administration Certification exam. By successfully passing the exam, the graduate will be recognized as a Registered Health Information Administrator (RHIA).

**Degrees:** Health Information Management (BS)

**Tracks:** None

**Minors:** Health Information Management

#### Program in Health Sciences-Athletic Training

**Director:** K. Schellhase, HPA 124, 407-823-3463

The Program in Athletic Training at the University of Central Florida is a track in the Program in Health Sciences. The athletic training track is a six semester program where students complete 12-16 credits per semester while engaged in clinical affiliations. The core of athletic training coursework emphasizes the competencies and proficiencies necessary for successful clinical practice in a variety of set-
The University of Central Florida also sponsors an A.S. to B.S. transfer program designed for ARRT certified Radiographers interested in combining their professional development with earning a baccalaureate degree in Radiologic Sciences. Didactic courses for the entry-level and the A.S. to B.S. transfer programs are offered in the classroom and on the internet. Additional information regarding the transfer program is provided in the “Articulated A.S. to B.S. Degree Programs” section of the catalog.

The primary role of radiographers is to perform medical imaging procedures for the diagnosis of disease and injury. The radiographer enjoys an interesting and challenging variety of examinations/procedures which may include conventional radiography, fluoroscopy, mammography, vascular imaging, computed tomography and magnetic resonance imaging. Employment opportunities are available in hospitals, imaging centers, and private physician offices. Career advancement opportunities include positions in advanced imaging 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 DiagnostiCare, Jewett Orthopaedic Clinic, Orlando Regional Medical Center, Orlando Regional Lucerne Hospital, Regional MRI, Orlando Regional South Seminole Hospital, UCF Student Health Services and University Diagnostic Institute.

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

Department of Public Administration
Chair: Mary Ann Feldheim, HPA2 238, 407-823-2604

Faculty: Colby, Collins, Feldheim, Jurie, Korosec, Kapucu, Lawther, Liou, Morin, Rogers, Wang.

The Department of Public Administration offers a variety of degrees, minors, and a certificate to provide students with a broad understanding of the public management or nonprofit management. The public sector is vast and includes over 87,000 governments, of which the federal government is but one. The Bachelor of Arts or Science degrees with a major in Public Administration enables students to pursue a Ph.D. in Public Affairs. Students with interests that go beyond the Masters level may also pursue a Ph.D. in Public Affairs.

The virtues of public sector employment are numerous. First, the range of employment opportunities is extraordinary and includes a variety of management and staff positions in city and county management, environmental protection, homeland security, human resources, nonprofit management, urban planning, economic development, policy and administration, and emergency management, among others. Second, the salaries are generally highly competitive with private industry, despite common misconceptions to the contrary. Third, public sector employment provides people with the opportunity to “make a difference” for society and help individuals one at a time. Fourth, it provides a superior stability and continuity of career. Those seeking to work in or already employed in the nonprofit sector will find it booming as the intergovernmental system increasingly delegates the delivery of services to nonprofits.

Degrees: Public Administration (BA, BS, MPA, MNM)
Tracks: None
Minors: Public Administration, Urban and Regional Planning, Emergency Management and Homeland Security, American Humanities

Certificates: Nonprofit Management
School of Social Work
Director: John Ronnau, HPA 204, 407-823-2114

Faculty: Abel, Allgood, J. Davis, L. Davis, Gammonley, Green, Harris, Jacinto, Kohn, Lawrence, Leon, Maiden, Molina, Ramos, Rothenburg.

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 (open to Social Work majors only) prepares social work students to respond to the special needs of children and families. This certificate is of special interest to students planning to work the field of child welfare or related areas. The Addictions Certificate (open to Social Work majors only) prepares students to work in the field of adult and adolescent substance abuse.

Degrees: Social Work (BSW, MSW)
Tracks: None
Minors: Aging Studies
Certificates: Addictions, Aging Studies, Children’s Services

College of Medicine
Dean: Deborah German,
University Towers, 12201 Research Parkway, Suite 301, PO Box 160116, Orlando 32826-0116; 407-823-1849
http://www.med.ucf.edu/

The University of Central Florida College of Medicine was established in 2006 by Gov. Jeb Bush and the Board of Governors to increase opportunities for medical education in Florida, address the growing physician shortage nationwide and provide economic benefits to Central Florida and the state.

The college will offer a doctor of medicine (M.D.) degree program beginning Fall 2009, pending preliminary accreditation from the Liaison Committee on Medical Education. The college expects to enroll an initial class of 40 students and eventually produce about 120 medical graduates each year. Details on the application process will be made available following preliminary accreditation.

Dr. Deborah German, who was named founding dean of the college on Oct. 25, will work with her staff to develop a curriculum and secure preliminary accreditation by Spring 2008. The four-year medical program will capitalize on UCF’s existing strengths in biomedical sciences, modeling and simulation, and optics and photonics. Other programs in materials science, psychology, chemistry, film and digital media, and nursing will support the program.

The College of Medicine will be located at the UCF Health Sciences Campus at Lake Nona on 50 acres that will also include the Burnett College of Biomedical Sciences, a medical library and other health sciences programs. Construction is scheduled to begin in March 2007.
The College of Nursing is the 12th college to be established at the University. It was established as a Department of Nursing and graduated its first class in 1981. The College has achieved prominence as an innovator in nursing education, responding to a changing population with complex health care needs. The faculty of the College values access to education and embrace opportunities to utilize advanced technology, innovation and creativity to provide graduates with the highest quality education at the baccalaureate, master's and doctoral levels.

Today's challenging health-care environment provides unique opportunities for nursing. Nurses are needed more than ever to provide evidence-based patient care, serve in leadership roles, teach, engage in research, and influence policy.

The mission of the College of Nursing is to provide excellence in nursing education, research and service to develop clinicians, leaders and scholars who promote the health of diverse populations at the local, state, national and international levels. This mission is accomplished by: Focusing on vulnerable populations, innovative technology and health systems and policy; creating interdisciplinary and community partnerships; providing multimodal, multi-site access for career advancement and professional development.

The College of Nursing offers a Bachelor of Science in Nursing (B.S.N.) Degree, the basis for professional nursing practice. The program has three tracks: basic, accelerated and RN to BSN. The basic and accelerated tracks prepare students for initial licensure as a registered nurse. The basic program is also offered at the Cocoa and Daytona regional campus sites. 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. The BSN graduate is prepared to provide comprehensive care in a variety of acute, community, and rehabilitative settings. The 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.

The RN to BSN track offers registered nurses with an associate degree in nursing or diploma an opportunity to earn a BSN. 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 College of Nursing for additional information regarding prerequisites and minimum grade point averages may be obtained from the College website.

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 the degree program.

Programs and Degrees

Major Degree

Nursing BSN, MSN, PhD
CREOL and FPCE, The College of Optics and Photonics:
Dean and Director: Eric W. Van Stryland; 407-823-6800;
E-mail: info@creol.ucf.edu
http://www.creol.ucf.edu

The College of Optics and Photonics is a graduate school for research and education in optics, lasers, and photonics. CREOL (the Center for Research and Education in Optics and Lasers) and FPCE (the Florida Photonics Center of Excellence) are research centers within the College but CREOL predates the College by many years and we are best known internationally under this name. It was established in 1986 to provide the highest quality education in optics and lasers, conduct scholarly fundamental and applied research, and aid in the development of Florida’s high technology-based industries.

CREOL and FPCE are the research arms of The College which offers Masters (MS) and Doctoral (Ph.D.) Degrees in Optics. CREOL has become an internationally recognized institute with 25 faculty members, 45 Ph.D. level research scientists, and 167 graduate students. The faculty are recognized as being among the best in the optics/laser/photonics field, with two thirds holding the rank of Fellow in major national and international professional societies. It is housed in a state-of-the-art 104,000-square-foot building dedicated to optics, photonics, and laser education and research on the main campus. This facility houses ninety research laboratories equipped with over $45 million in state-of-the-art equipment.

The research activities span the spectrum from basic science to prototype development. The faculty and research staff pursue joint research projects with industry, academia, and government laboratories, and are always seeking new opportunities to work with industry to expose students to the industrial environment and to help in technology transfer. Current research areas include: nanophotonics, biophotonics, imaging science, plasmonics, high-speed photonics networks and telecommunications, solid state laser development, nonlinear optics, laser induced damage, quantum-well optoelectronics, photonic information processing, infrared systems, optical system design, image analysis, virtual reality, medical imaging, diffractive optics, optical crystal growth and characterization, high intensity lasers, x-ray optics, EUV sources, optical glasses, liquid crystal devices, laser materials processing, and light matter interaction. These programs are supported by over $17 million of research grants and contracts annually from numerous federal and state agencies and industry.

Graduate assistantships, with stipends ranging from $20,000 to $26,000, are available to outstanding students pursuing graduate education in optics and photonics. Research training opportunities are also available to undergraduate students through the Research Experience for Undergraduates (REU) program sponsored by the National Science Foundation, and other research grants and contracts.

CREOL has a very active Industrial Affiliates Program to facilitate strong cooperative relations with industry. The program provides industry with benefits of cutting-edge research and access to the expertise and facilities of CREOL. Faculty members also team with Florida-based small businesses to help them compete for federally sponsored Small Business Innovative Research (SBIR) programs. The program provides industry with effective ways to contribute to and sustain the research and teaching of optics and photonics.
The College of Sciences, the largest academic unit at the university, educates and conducts research in physical, life, social, and behavioral sciences. The College houses the departments of Anthropology, Biology, Chemistry, Mathematics, Physics, Political Science, Psychology, Sociology, and Statistics and Actuarial Science; the Nicholson School of Communication; and the National Center for Forensic Science.

The College is responsible for all programs in the sciences and the departments collectively offer 35 baccalaureate, graduate, and pre-professional programs. For additional information concerning graduate programs, please refer to the Graduate Catalog: http://graduate.ucf.edu/currentGradCatalog/ Undergraduates enrolled in the College must fulfill all University degree requirements, including those for general education, as well as the requirements of the degree program. To be certified for graduation, a student must achieve 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 specified courses and/or in portions of the program of study. Consult the program requirements and a departmental advisor for specific policies. For programs with a foreign language graduation requirement, American Sign Language is not considered a foreign language and will not satisfy the requirement unless specifically permitted within the major.

Preprofessional Programs

Prelaw Program
Prelaw Advisor: Roger Handberg; CNH 414; 407-823-2608

There is no preferred major for pre-law. Law schools accept superior students with a good liberal arts or science background, regardless of major field. The quality of undergraduate education for the legal profession, according to the Association of American Law Schools, is grounded in three basic skills and insights: comprehension and expression in words, critical understanding of the human institutions and values with which the law deals, and the creative power of thinking. Law schools require that applicants take the Law School Admission Test (LSAT). General information pertaining to programs of study, the LSAT, careers, and law schools can be obtained from the Pre-Law Advisor. Advisement within the major is provided by the department offering the major.

Prehealth Professions

The College of Sciences offers many of the courses that fulfill admission requirements for professional schools in the Health Sciences. Refer to the Biology Preprofessional program of study for additional information.

Advisement
College of Sciences, Academic Services (COSAS)
Director of Undergraduate Services: Lee Anne Kirkpatrick; CSB 250; 407-823-6131; E-mail: cosas@mail.ucf.edu http://cosas.cos.ucf.edu

The College of Sciences Academic Services (COSAS) is the primary...
office for undergraduate academic assistance for the College of Sciences. COSAS assists students with degree requirements, policies, and procedures as well as coordinates orientation, registration, readmission, and graduation. Questions concerning University and College academic policies and requirements should be directed to COSAS. Questions concerning the requirements within a major or minor should be directed to the department offering the program. The student should contact the department early in his/her academic career. For additional information about COSAS, please visit our website.

Programs and Degrees

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<td>Sociology</td>
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Departments and Programs

Anthropology: Department

**Interim Chair:** A. Chase; PH 309; 407-823-2227;
E-mail: anthropology@ucf.edu
http://www.cos.ucf.edu/anthro/

**Faculty:** Barber, A. Chase, D. Chase, Dupras, Geiger, Howard, D. Jones, Lieberman, Long, Matejowsky, McIntyre, Schultz, Silver, Sinnelli, Stearman, Walker, Wallace, Zorn

The Department of Anthropology offers courses and programs that lead to: a Bachelor of Arts in Anthropology; a minor in Anthropology with concentrations in general anthropology, archaeology, cultural anthropology, and physical anthropology; a minor in Anthropology in Multicultural Studies; a minor in Native American Indian Studies; an undergraduate certificate in forensics; a graduate certificate in Maya Studies; and, a Master of Arts in Anthropology with tracks in Cultural Competency, Archaeological Investigations in Forensics and Human Adaptations, and Maya Studies. The Undergraduate Anthropology Program prepares students for graduate training in Anthropology and provides them with the skills needed to apply the concepts, methods, and theories of Anthropology in the real world. Anthropology has four sub-disciplines, consisting of language and culture, cultural anthropology, physical anthropology, and archaeology. All undergraduate students are exposed to each of the sub-fields of Anthropology, the training for advanced work in each field differs. Thus, students should consult with their departmental advisor early in their academic careers.

**Degrees:** Anthropology (BA, MA)

**Tracks:** Cultural Competency (MA), Archaeological Investigations in Forensics and Human Adaptations (MA), Maya Studies (MA)

**Minors:** Anthropology (concentrations in general, archaeology, cultural, or physical), Anthropology in Multicultural Studies, Native American Indian Studies

Biology: Department

**Interim Chair:** Martin Quigley; BL 301; 407-823-2141
E-mail: biology@ucf.edu
http://www.cos.ucf.edu/biology/

**Faculty:** Bayer, Borst, Calestani, Crampton, Fauth, Fedorka, Harris, Hoffman, Jenkins, Loguidice, Morrison-Sheltar, Nadeau, Noss, Osborne, Parkinson, Quigley, Quintana-Ascencio, Roth, Shetlar, Sotero-Esteva, Stout, Thomas, Vajravelu, Von Holle, von Kalm, Walters, Waterman, Weishampel, Worthy.

Professors Emeritus: Ehrhart, Ellis, Kuhn, Koevenig, Snelson, Sweet, Taylor

The Department of Biology offers a Bachelor of Science in Biology, a Minor in Biology, the Master of Science in Biology, a graduate Certificate in Conservation Biology, a Ph.D. in Conservative Biology, and participates in an interdisciplinary Ph.D. program in Biomolecular Sciences. The core undergraduate curriculum provides a background in the chemical, mathematical, and physical sciences, as well as broad preparation in the biological sciences. This diverse background opens career opportunities for graduates in areas outside of their particular degree program. Graduates are well prepared to further their education in professional or graduate schools. Selection of electives, in consultation with a faculty advisor, permits emphasis on a subspecialty. Careful selection of restricted and unrestricted electives allows students to satisfy requirements for admission to professional or graduate school while completing their B.S. degree in Biology. Research experience and exposure to specialized topics not taught through formal courses may be gained through independent study contracts.

**Degrees:** Biology (BS, MS, PhD)

**Tracks:** Biology Pre-professional (BS)

**Minors:** Biology

Chemistry: Department

**Chair:** Kevin D. Belfield; CH 117; 407-823-2246
E-mail: chemstaf@mail.ucf.edu
http://www.cos.ucf.edu/chemistry

**Associate Chair and Undergraduate Coordinator:** Cherie L. Geiger;
CH 325; 407-823-2135


The Department of Chemistry offers courses and programs leading to a Bachelor of Science in Chemistry, a Bachelor of Science in Forensic Science, a minor in Chemistry, a Master of Science in Industrial Chemistry, Master of Science in Forensic Science, and a Ph. D. in Chemistry. The department also participates in the Ph.D. in Biomolecular Science. The undergraduate degree program in chemistry is accredited by the American Chemical Society Committee on Professional Training. It prepares the graduate for career opportunities in the chemical or related industries, or in government laboratories. The program also prepares students for further study at the graduate level in chemistry or in a related area such as materials science, pharmacology, or toxicology. With an appropriate choice of electives it also constitutes excellent preparation for the professional schools of dentistry, medicine, pharmacy, and veterinary medicine.

**Degrees:** Chemistry (BS, MS, PhD), Forensic Science (BS, MS)

**Tracks:** Chemistry, Forensic Analysis, Forensic Biochemistry

**Minors:** Chemistry

College of Sciences

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UCF
College of Sciences

Communication: Nicholson School
Director: M.A. Shaver; COM 238; 407-823-2681; E-mail: communication@ucf.edu
http://www.cos.ucf.edu/communication


Faculty Emeriti: Meeske, O'Keefe, Taylor, Wycoff

The Nicholson School of Communication provides students with a balance of practical skills and philosophical aspects of communication. The programs prepare students to understand mass media as social institutions and train them for professional careers. The School is composed of four Divisions each of which offer a Bachelor of Arts degrees. The degrees are:

1. Advertising/Public Relations. Provides theory and practice in both advertising and public relations.
2. Interpersonal & Organizational Communication. Provides knowledge, theory, and skills needed to understand and predict human communicative behavior, necessary for employment in business, sales, and NPOs, or as background for advanced study in graduate school.
3. Journalism. Provides theory and skills needed to gain employment in newspapers, magazines, and similar forms of mass communication.

Facilities
The Radio-Television Division has fully-equipped audio and video production facilities, a complete multi-camera television studio, an online radio station, and laboratories for interactive multimedia. The Journalism Division has computer labs and a digital darkroom. The Advertising/Public Relations Division has a computer writing lab. The Interpersonal/ Organizational Communication Division has a 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), Communication (MA), Interpersonal & Organizational Communication (BA), Journalism (BA), Radio Television (BA)

Specializations: Broadcast Journalism, Production, Broadcast Generalist, News Writing, Visual Communications, Editing

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

Mathematics: Department
Inerim Chair: Piotr Mikusinski; MAP 209; 407-823-2826
E-mail: math@mail.ucf.edu
http://math.ucf.edu

Associate Chair/Undergraduate Coordinator: Heath Martin;
MAP 215A; 407-823-5700

Faculty: Andrews, Anthony, Brennan, Cannon, Caron, Choudhury, Clarke, Dunlop-Pyle, Dukay, Dutton, Griffiths, Han, Higgins, Ismail, Kassab, Katsevich, Kaup, Li, Martin, Mikusinski, Mohapatra, Nashed, Nicholson, Ou, Pensky, Phillips, Qi, Reid, Ren, Richardson, Rodriguez, Rollins, Schober, Shivamoggi, Song, Sun, Tamasan, Tovbis, Vajravelu, Yong, Young, Zhao

The Department of Mathematics offers courses and programs which lead to a Bachelor of Science in Mathematics, a minor in Mathematics, a Master of Science in Mathematical Science and a Ph.D. in Mathematics. (See the Graduate Studies catalog for a description of the M.S. in Mathematical Science and the Ph.D. in Mathematics.) The programs in mathematics are designed to serve:

1. students who desire to pursue careers in mathematics after having completed a baccalaureate degree;
2. students who desire to continue their education in graduate and professional schools; and
3. students who need to use advanced mathematics as a tool in their 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

Physics: Department
Chair: Talat Rahman; MAP 310; 407-823-2325;
E-mail: physics@ucf.edu
http://www.physics.ucf.edu

Associate Chair: Lee Chow; MAP 315; 407-823-2333

Faculty: Bhattacharya, Bindell, Bose, Braunstein, Brit, Bruckner, Campins, Chernyak, Chow, Del Barco, Efthimiou, Fernandez, Heinreich, Johnson, Khondaker, Kokouline, Leuenberger, Llewellyn, Luo, Martin, Montgomery, Muccio, Neighbor, Peale, Rahman, Roldan-Cuyna, Saha, Schelling, Schulte, Tonner, Winningham

Faculty Emeritus: Brennan

Visiting Faculty: Cooney, Dubey, Filtisyan, Ngwa, Zhmudskyy

The Department of Physics offers a multi-track program of study leading to the B.S. degree, giving students the flexibility to choose a suitable set of courses to prepare for their career goals. A common core of courses in theoretical and experimental physics will lead to a broad understanding of the general principles of physics. The different tracks allow students to specialize, applying problem-solving techniques in a certain area of interest; this also enhances their qualifications for employment in that area after graduation.

After graduation our students are prepared to enter advanced study in physics, engineering, medicine, environmental sciences, astronomy, and other related disciplines. They are also prepared to begin careers in positions are varied as engineering physics, computational physics, and physics education. Undergraduate physics majors benefit from small class sizes, and are encouraged to be involved in individually designed senior projects working with a faculty advisor.

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

Degrees: Physics (BS, MS, PhD)

Tracks: General Physics, Materials Physics, Optics & Lasers, Computational Physics, Astronomy

Minors: Astronomy, Physics

Political Science: Department
Chair: R. Handberg; PH 302; 407-823-2608;
E-mail: politics@ucf.edu
http://www.cos.ucf.edu/politicalscience


The Department of Political Science seeks to:

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

Students should plan their major or minor in consultation with their departmental advisor according to their interests and career objectives. Political Science courses are divided into three areas of specialization: American Politics and Policy; International Relations and Comparative Politics; and Political Theory. It is strongly recommended that majors planning to continue their education at the graduate level or to pursue a career in international fields acquire a working knowledge of a foreign language. The Department of Political Science participates in the following programs:

- Asian Studies: Contact Houman Sadri
- Environmental Studies: Contact Dwight Kiel or Peter Jacques.
- European Studies: Contact Kerstin Hamann
- Global and International Studies: Contact Waltraud Q. Morales
- Latin American and Iberian Studies: Contact Waltraud Q. Morales or Bruce Wilson or Annabelle Conroy.
- Space Studies: Contact Roger Handberg
- Women’s Studies: Contact Terri S. Fine or Annabelle Conroy.

**Degrees:** Political Science (BA, MA)

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

**Psychology: Department**

Chair: R. Dipboye; PSY 301; 407-823-2216; E-mail: psychology@ucf.edu
http://psychology.cos.ucf.edu/

Assistant Chair: T. Hernandez; PSY 301; 407-823-2216


Faculty Emeritus: Abbott, Burroughs, Rollins, Thomas-Jenkins, Tucker

The Undergraduate Psychology Program has two primary missions: to prepare students for graduate training in psychology or related fields, and to provide the skills needed for students to apply the concepts and methods of psychology in their work, their communities, and their lives.

**Degrees:** Psychology (BS, MA, MS, PhD)

**Tracks:** None

**Minors:** Psychology, Behavioral Forensics Certificate

**Sociology: Department**

Chair: J. Corzine; PH 403B; 407-823-3744
http://www.cos.ucf.edu/sociology

Associate Chair: E. Grauerholz

Faculty: Bradatan, Campbell, Canan, Corzine, Dees, Dietz, Ford, Gay, Goldstein, Grauerholz, Huff-Corzine, Jasinski, Lynxwiler, Marshall, Morris, Mustaine, Rivera, Sikorska-Simmons, Wright.

Sociology includes the study of interpersonal interactions, groups, organizations, and societies through the application of theoretical approaches and the use of qualitative and quantitative methods. Students will be better prepared for careers in any field by being trained in critical thinking and analytical skills, and by being familiar with theoretical and methodological tools for the study of peoples, groups, and organizations. To this end, we provide state-of-the-art training in an array of courses.

Sociology majors master skills in quantitative and qualitative research methods, communication, and analytical thinking as well as acquiring written and oral presentational skills. These are among the top 10 abilities for which today’s employers are looking and are also essential for success in graduate and professional programs.

Sociology courses are directly relevant to many contemporary issues, including murder and violent crime, domestic violence, global warming, alcohol and drug abuse, popular culture, and changes in the family.

The department offers groups of courses in several areas, including social institutions, the environment, crime and deviance, popular culture, family, and diversity and social inequalities. As such, the B.A. in Sociology provides excellent grounding for a wide range of careers such as teaching, public administration, metropolitan planning, behavioral analysis, legal/court case assessment, law enforcement, marketing research, advertising, public relations, human resources, child welfare officer, victim advocate, convention/events organizer, environmental/social activist, social assistance specialist, and research analyst.

For more information about our nationally acclaimed yet personable faculty and our relevant, flexible major, go to http://sociology.ucf.edu.

**Degrees:** Sociology (BA, MA), Social Sciences Interdisciplinary (BS)

**Tracks:** None

**Statistics and Actuarial Science: Department**

*Interim Chair:* D. Nickerson; CCII 206; 407-823-5528
http://www.cos.ucf.edu/statistics

Faculty: Carta, Cutchins, Gau, Han, Johnson, Kellison, Modisett, Maboudou-Tchao, Ni, Pensky, Pepe, Ren, Richardson, J. Schott, S. Schott, Su, Uddin, Wang

The Department of Statistics and Actuarial Science offers courses and programs leading to a Bachelor of Science in Statistics, a Bachelor of Science in Actuarial Science, a minor in Statistics, and a Master of Science in Statistical Computing with tracks in Data Mining and Actuarial Science. (See the Graduate Studies catalog for a description of the M.S. in Statistical Computing.)

The undergraduate programs in statistics and actuarial science are designed to serve 1) students who desire to pursue careers in statistics or actuarial science after having completed a baccalaureate degree; 2) students who desire to continue their education in graduate or professional schools; and 3) students who use statistics or actuarial science as tools in their specialty areas.

In order to serve such a wide variety of students, the courses and programs in the Department of Statistics and Actuarial Science have been developed along several lines. There are the usual service courses in elementary statistics along with strong programs in the upper division in statistical methods, statistical theory, statistical computing, and actuarial science. A limited number of assistantships are available for qualified graduate and undergraduate students.

**Degrees:** Statistics (BS, MS), Actuarial Science (BS, MS Track)

**Tracks:** None

**Minors:** Statistics
Rosen College of Hospitality Management

Dean: Abraham Pizam; 9907 Universal Boulevard, Suite 231-H
Orlando, FL 32819; 407-903-8000
http://www.hospitality.ucf.edu

Associate Dean: Stephen LeBruto;
9907 Universal Boulevard, Suite 231-A; 407-903-8015


The hospitality industry represents the second largest employer in the United States and is the major part of the rapidly growing services sector of the economy. Because of its unique location in the premier tourist destination in the world, the Rosen College of Hospitality Management is ideally situated to prepare students for managerial careers in the hospitality industry. Whether the student is interested in entering lodging, food service, travel and tourism, financial management and technology, theme parks, vacation ownership resorts, golf management, or event management, the Orlando and Central Florida area offers extraordinary opportunities. It is the destination for over 45 million tourists each year, has over 400 hotels with 120,000 rooms, 5,000 restaurants, and 75 theme parks and attractions. The industry employs a half million people in the State of Florida and many are in the Central Florida area.

The educational mission of the College is to provide students with the knowledge, skills, and ability to identify opportunities and challenges in the hospitality industry, and to apply creative decision techniques in responding to those opportunities.

The curriculum is designed to prepare students for a broad range of managerial roles across the hospitality industry. It provides both academic preparation and practical experiences that students will need to enter and succeed in a hospitality management career. Students also have the opportunity to experience the work world in hospitality through an internship requirement and through extensive contact with leading hospitality managers in the Central Florida area.

There are three undergraduate degrees offered.

The Center for Multi-Unit Restaurant Management and the Darden Eminent Scholar Chair in Restaurant Management provide a unique focus in the curriculum on corporate restaurant management. Students have access through the Center to leading restaurant industry executives. This academic unit is an integral part of the Rosen College of Hospitality Management.

Distinctive Benefits
- A state-of-the-art facility located in the heart of the tourism district in Orlando, Florida with on-campus housing.
- Access to the many hospitality organizations that serve one of the premier tourist destinations in the world.
- Extensive ties with the top leadership of the Orlando area hospitality industry.
- A large number of scholarships made available through the generous support of the industry.
- A faculty committed to continuously improving their knowledge of the hospitality industry as well as their ability to teach that knowledge to their students.
- A required work experience that provides students with practical experiences in the hospitality industry.
- Outstanding opportunities for internships.
- A modern food production laboratory and teaching restaurant completely equipped to provide students with experience in food preparation.
- American Resort Development Association (ARDA) Professorship of Vacation Ownership.
- Central Florida Hotel and Lodging Association (CFHLA) Professorship of Convention and Conference Management.

Degrees: Event Management (BS), Hospitality Management (BS)
Restaurant and Food Service Management (BS)

Minor: Hospitality Management

Tracks: Vacation Ownership Resort Management; Theme Park and Attraction Management; Tourism Management; Lodging Management; Hospitality Financial Management and Technology; Golf Management
Interdisciplinary Studies
(formerly Liberal & Interdisciplinary Studies)
Classroom Bldg I, Suite 302
Director: Elliot Vittes; 407-823-0144; E-mail: ls@mail.ucf.edu

Program Contact: Interdisciplinary Studies Advising Team
Academic Advisors: Jessica Broerman, Laura Fitch, Lee Logan, Sandra Tabert

The Interdisciplinary Studies Program offers students the opportunity to pursue interdisciplinary studies through individually planned programs of study with professional advising and courses from across the university. The degree includes five different tracks from which to choose. There are also two minors and a certificate program.

Degrees: Interdisciplinary Studies (BA, BS, MA, MS)
Tracks: Interdisciplinary Studies, Liberal Arts, Environmental Studies, Women’s Studies, Nanoscience & Nanotechnology
Minors: Environmental Studies, World Comparative Studies
Certificates: Cultural Tourism
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ACCOUNTING (B.S.B.A.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu

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

Degree Requirements

1. UCF General Education Program (min 36 hrs)
   - A. Communication Foundations: Required: SPC 1600
   - B. Cultural and Historical Foundations: 9 hrs
   - C. Mathematical Foundations: Select MAC 1140 College Algebra or MAC 1105 College Algebra
   - D. Social Foundations: Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics
   - E. Science Foundation: Select one: PSY 1012, SYG 2000, ANT 2000

2. Common Program Prerequisites (18-21 hrs)
   - Must be completed with a "C" (2.0) or better
   - ACG 2071 Principles of Managerial Accounting
   - ACG 2101 Principles of Financial Accounting
   - ECO 2013 Macroeconomics
   - ECO 2023 Microeconomics
   - *ECO 3401 Quantitative Business Tools I
   - CGS 2100CC Computer Fundamentals for Business

   *UCF: students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Common Body of Knowledge (36 hrs)
   - First or subsequent semester in the College of Business Administration:
     - GEB 3031 Cornerstone (Required in 1st or 2nd semester): 4 hrs
     - GEB 3356 Intro to International Business: 4 hrs
     - ECO 3411 Quantitative Business Tools II: 4 hrs
     - FIN 3403 Business Finance: 4 hrs
     - MAN 3025 Management of Organizations: 4 hrs
     - ISM 3011 Essentials of Management/Information Systems: 4 hrs
     - MAR 3023 Marketing: 4 hrs
     - BUL 3310 Legal and Ethical Environment of Business: 4 hrs
   - Last Semester:
     - MAN 4720 Strategic Management: 4 hrs

4. Special College and/or Departmental Requirements
   - 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 in the Accounting major must maintain a 2.0 or higher cumulative Grade Point Average in all 3000 level or higher Accounting or Tax courses taken at UCF. Failure to maintain the required 2.0 Grade Point Average will result in the student being placed on lack of progress in the major. Lack of Progress in the major will continue until such time as the student's cumulative GPA in all Accounting and Tax courses reaches 2.0 or higher. If a student on lack of progress in the major fails to achieve a 2.0 minimum GPA in Accounting and Tax courses in a subsequent term, that student will be dropped as an accounting major. A student who is dropped may seek readmission as an Accounting major by submitting a letter indicating the reasons for academic difficulties and positive plans for achieving an Accounting and Tax GPA of 2.0 or higher. Readmission is not automatic.
     - 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.

5. Foundation (Required) (12 hrs)
   - ACG 3131 Financial Accounting Concepts and Analysis
   - ACG 3361 Intermediate Managerial Accounting
   - ACG 4401C Accounting Information Systems
   - TAX 4001 Taxation of Business Entities and Transactions

6. Area Specialization/Concentration Requirements (9 hrs)
   - Select one set from the following area specialization options:
     - A. Public Accounting
       - ACG 3141 Intermediate Financial Accounting
       - ACG 3501 Accounting and Auditing in the Public Sector
       - ACG 4651 Auditing
     - B. Managerial Accounting
       - ACG 4671 Internal Auditing
       - ACG 5346 Intermediate Managerial Accounting
       - FIN 3414 Intermediate Corporate Finance
     - C. Accounting Information Systems
       - ACG 4671 Internal Auditing
       - ACG 5405 Advanced Accounting Information Systems
       - ISM 3253 MIS Techniques
     - D. Governmental and Not-For-Profit Accounting
       - ACG 3501 Accounting and Auditing in the Public Sector
       - ACG 4671 Internal Auditing
       - ACG 5517 Financial Accounting and Auditing for Governmental and Nonprofit Organization
     - E. General Accounting
       - Select one auditing course:
         - ACG 4651 Auditing or
         - ACG 4671 Internal Auditing
       - Select one additional accounting course from the 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 and a minimum GPA of 2.75.

7. Restricted Electives (3 hrs)
   - Students may choose among the following accounting and accounting-related business courses:
     - ACG 3141 Intermediate Financial Accounting
     - ACG 3501 Accounting and Auditing in the Public Sector
     - ACG 4401C Accounting Information Systems
     - ACG 4651 Auditing
     - ACG 4671 Internal Auditing
     - ACG 4932 Approved Special Topics Courses in Accounting
     - ACG 4970H** Honors Thesis in Accounting
     - TAX 4001 Taxation of Business Entities
     - ACG 5346 Advanced Managerial Accounting
     - ACG 5405 Advanced Accounting Information Systems
     - ACG 5517 Governmental and Nonprofit Accounting
     - BUL 5332 Advanced Business Law Topics
     - FIN 3414 Intermediate Corporate Finance
     - FIN 4453 Financial Models
     - ISM 3253 MIS Techniques
     - ISM 4212C Database Management Systems
     - TAX 5015 Advanced Taxation Topics
     - (HPS 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 4903H Directed Readings in Accounting or 3 hrs
*ACG 4904H Honors Seminar in Accounting 3 hrs plus
ACG 4907H Honors Thesis in Accounting 3 hrs

With approval of the School of Accounting Honors in the Major Coordinator, the Directed Readings course requirements 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.

Students pursuing a Bachelor of Arts Degree may substitute American Sign Language for the foreign language exit requirement, except where one or more foreign languages have been specified by a college, school, or program for a specific degree.

Graduation: none

10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after any CLEP award
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 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 hrs

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:

- 56 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/

Transfer Notes

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- 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 waivered 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.

Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.

Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Be sure that you take advantage of both.

SUGGESTED FOUR YEAR PLAN OF STUDY - ACCOUNTING

<table>
<thead>
<tr>
<th>Freshman 1st Term</th>
<th>15 hrs</th>
<th>2nd Term</th>
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</tr>
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<tbody>
<tr>
<td>ENC 1101*</td>
<td>3</td>
<td>ENC 1102*</td>
<td>3</td>
</tr>
<tr>
<td>Cull-Hist I*</td>
<td>3</td>
<td>Cull-Hist II*</td>
<td>3</td>
</tr>
<tr>
<td>MAC 1105*</td>
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<td>Art/MusicLit</td>
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<td>Psy/Syg/Ant</td>
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<td>CGS 2100CC*</td>
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<tr>
<td>Science</td>
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Must complete 9 hours in a Summer term

<table>
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<tr>
<td>ECO 2023*</td>
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<td>ECO 2019*</td>
<td>3</td>
</tr>
<tr>
<td>ACG 2021*</td>
<td>3</td>
<td>ACG 2071*</td>
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<td>SPC 1000</td>
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<td>POS 2041</td>
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<td>***Elective</td>
<td>3</td>
<td>***Elective</td>
<td>3</td>
</tr>
<tr>
<td>**Elective</td>
<td>3</td>
<td>ECO 3401*</td>
<td>3</td>
</tr>
<tr>
<td>**C” (2.0) or better grade required in each class</td>
<td></td>
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</tr>
<tr>
<td>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</td>
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<thead>
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<tr>
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<td>ECO 3411</td>
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<td>**BUL 3130</td>
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<td>GEB 3556</td>
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<td>**ISM 3011</td>
<td>4</td>
<td>MAN 3025</td>
<td>4</td>
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<tr>
<td>**ACG 3111</td>
<td>3</td>
<td>**ACG 3361</td>
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<tr>
<td>Senior 1st Term</td>
<td>14 hrs</td>
<td>2nd Term</td>
<td>16 hrs</td>
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<td>MAN 4720</td>
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<tr>
<td>**ACG 4401C</td>
<td>3</td>
<td>**ACG Specialization</td>
<td>3</td>
</tr>
<tr>
<td>FIN 3403</td>
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<td>**ACG Specialization</td>
<td>3</td>
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<tr>
<td>MAR 3023</td>
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<td>**ACG Restricted Elective</td>
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<tr>
<td>**ACG Specialization</td>
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<tr>
<td>**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</td>
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<tr>
<td>**General electives as required to reach 120 semester hours</td>
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</table>

ACTUARIAL SCIENCE (B.S.)
College of Sciences
Department of Statistics and Actuarial Science
CC II 212, 407-823-5562
http://www.cos.ucf.edu/statistics
E-mail: statistics@mail.ucf.edu
Contact: Stephen Kellison; 407-823-5530

Admission Requirements

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- All statistics courses except STA 2023, STA 3032, and those protected by Florida Common Course Numbering must be taken from, or approved by the Statistics Department at UCF.
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department.
- Students must earn at least a “C” (2.0) in each STA course.
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major.
3. Core requirements (53 hrs)

E. Science Foundations 8 hrs
B. Cultural and Historical Foundations 9 hrs
A. Communication Foundations 9 hrs

Note
1. UCF General Education Program (36+3 hrs)
   Students should consult with a departmental advisor.

Take SOA Exam P (Probability) and report the score to the department.

4. Restricted Upper Division Electives (6 hrs)

5. Departmental Exit Requirements

   Earn a grade of “C” (2.0) or better in each STA course.
   Computer competency met by COP 3502C.
   Take SOA Exam P (Probability) and report the score to 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. 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 hrs

Related Programs: Mathematics, Mathematics Education, Statistics

Related Minors: Statistics, Mathematics

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

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

COP 3502C*: any COP programming language course.
However, COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken.
BSC 2010C*: any laboratory BSC, CHM, or PHY course.
However this is a prerequisite for BSC 2011C and will need to be taken.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
Math test See catalog 0

Freshman Year

Fall
ECO 2013 Prin of Macroeconomics 3 ENC 1102 Composition II 3
ENC 1101 Composition I 3 ECO 2023 Prin of Microeconomics 3
MAC 2311 Calc Anal Geo I 4 MAC 2312 Calc Anal Geo II 4
STA 2023 Stat Methods I 3 STA 2023 Stat Methods I 3
BSC 2010C Biology I 4 BSC 2010C Biology I 4

Spring
MAC 2313 Calc Anal Geo II 4 PHI 2010 Composition I 3
PHY 2053C* req# 1E1-GEP 4 EUH 2001* req# 1B1-GEP 3
PHY 2054C req# 2B1-GEP 4 ENC 3241 Wr the Tech Prof 3

Sophomore Year

Fall
COM 1000* req# 1A3-GEP 3 ACG 2021 Prin of Fin Acc 3
ECO 2023 Prin of Microeconomics 3 ACG 2071 Prin of Mangr Acc 3
MAC 2311 Calc Anal Geo I 4 ENC 3241 Wr the Tech Prof 3
STA 2023 Stat Methods I 3 ENC 3241 Wr the Tech Prof 3
BSC 2010C Biology I 4 STA 4221 Stat Theory I 3

Spring
MAC 2311 Calc Anal Geo I 4 ACG 2071 Prin of Mangr Acc 3
MAC 2312 Calc Anal Geo II 4 ENC 3241 Wr the Tech Prof 3
STA 4221 Stat Theory I 3 ENC 3241 Wr the Tech Prof 3

Junior Year

Fall
FIN 3403 Business Finance 3 ENC 1102 Composition II 3
STA 4313 Theory of Interest 3 ENC 3241 Wr the Tech Prof 3
STA 4321 Theory of Interest II 3 STA 4222* req# 4-ResElect 3
STA 4322 Theory of Interest II 3 STA 4222* req# 4-ResElect 3

Spring
MAC 2313 Calc Anal Geo II 4 ENC 3241 Wr the Tech Prof 3
MAC 2312 Calc Anal Geo II 4 ENC 3241 Wr the Tech Prof 3
STA 4222* req# 4-ResElect 3 ENC 3241 Wr the Tech Prof 3

Senior Year

Fall
STA 4222* req# 4-ResElect 3 MAC 2313 Calc Anal Geo II 4
STA 4183* req# 3-2Core 3 STA 4183* req# 3-2Core 3
STA 4183* req# 3-2Core 3 STA 4183* req# 3-2Core 3

Spring
MAC 2313 Calc Anal Geo II 4 STA 4183* req# 3-2Core 3
STA 4183* req# 3-2Core 3 STA 4183* req# 3-2Core 3
MAC 2313 Calc Anal Geo II 4 STA 4183* req# 3-2Core 3

UCF Degree Programs

113
ADVERTISING/PUBLIC RELATIONS (B.A.)

College of Sciences
Nicholson School of Communication
COM 250, 407-823-2829
http://communication.cos.ucf.edu/adpr
E-mail: ad-pr@ucf.edu

Contact: Bob Davis

Admission Requirements

Students should apply to become Advertising/Public Relations majors only after completing all requirements for admission. Deadlines are:
October 1 to be admitted the next Spring term
February 1 to be admitted the next Summer term
July 1 to be admitted the next Fall term

Admission is based on multiple factors, not strictly GPA.

Attain an overall minimum 2.25 GPA based on a minimum of 45 credit hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off varies somewhat with the quality of applicants, but for previous acceptance periods, the minimum GPA did not drop below 3.3.

Have acceptable keyboard skills.

Receive a positive evaluation by the School.

Degree Requirements

Students who change degree programs (other than from Ad/Pr Pending) and select this major must adopt the most current catalog.

Co-op credit can be used in the major with advisor’s approval.

Students should consult with a departmental advisor.

School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication.

Of the 120 hours required for graduation, 80 hours must be taken outside of the Nicholson School of Communication.

Of these 80 hours, 65 must be taken in the liberal arts (i.e. within the College of Arts & Humanities or the College of Sciences).

To ensure completion within 120 hours and to comply with the 40 credit hour cap, the majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

Students should consult with a departmental advisor regarding their program.

Co-op credit can be used in the major with advisor’s approval.

Contact:
E-mail: ad-pr@ucf.edu
http://communication.cos.ucf.edu/adpr

 UCFS Degree Programs

Select one course

GEP

Core Requirements

Select one course

GEP

Total Semester Hours Required

120 hrs

Related Programs: Marketing

Related Minors: Business, Psychology

Applicant Notes:

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.

Computer Competency met by CGS 1000C, STA 2014C or departmental assessment.

Before applying to graduate, the CLAST must be completely satisfied.

Graduation:

Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

External Restricted Electives

Select primarily from upper level courses, with school advisor’s approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

University Minimum Exit Requirements

A 2.0 UCF GPA

60 semester hours earned after CLEP awarded

48 semester hours of upper division credit completed

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

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

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

Total Semester Hours Required

120 hrs

Transfer Notes:

Lower division courses taken at community colleges do not substitute for Upper Division courses.

Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by electives in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall

Spring

Freshmen English

ENC 1101 Composition I

3

3

MGF 1106

3

3

ECON 1010

3

3

Select STA 2014C

3

3

Elective* Check restrictions

3

3

English Composition

English Composition

Sophomore Year

Fall

Spring

BSC 1005* req# 1C2-GEP

3

3

CHEM 1021* req# 1A1-GEP

3

3

SPN 1120* req# Lang/Elect

4

4

SPN 1121* req# Lang/Elect

4

4

Elective* Check restrictions

3

3

Elective* Check restrictions

3

3

Application See catalog

Application See catalog

Junior Year

Fall

Spring

ADV 3008 Principles of Ad

3

3

COM 3110 Business and Prof Communication

3

3

Select one course

GEP

Select one course

GEP

Senior Year

Fall

Spring

ADV 4101 Ad Copywriting

3

3

Select one course

GEP

Select one course

GEP

Related Programs: Marketing

Marketing

Related Minors: Business, Psychology

Transfer Notes:

Lower division courses taken at community colleges do not substitute for Upper Division courses.

Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by electives in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall

Spring

Freshmen English

ENC 1101 Composition I

3

3

MGF 1106

3

3

ECON 1010

3

3

Select STA 2014C

3

3

Elective* Check restrictions

3

3

English Composition

English Composition

Sophomore Year

Fall

Spring

BSC 1005* req# 1C2-GEP

3

3

CHEM 1021* req# 1A1-GEP

3

3

SPN 1120* req# Lang/Elect

4

4

SPN 1121* req# Lang/Elect

4

4

Elective* Check restrictions

3

3

Elective* Check restrictions

3

3

Application See catalog

Application See catalog

Junior Year

Fall

Spring

ADV 3008 Principles of Ad

3

3

COM 3110 Business and Prof Communication

3

3

Select one course

GEP

Select one course

GEP

Senior Year

Fall

Spring

ADV 4101 Ad Copywriting

3

3

Select one course

GEP

Select one course

GEP

Related Programs: Marketing

Marketing

Related Minors: Business, Psychology

Transfer Notes:

Lower division courses taken at community colleges do not substitute for Upper Division courses.

Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by electives in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall

Spring

Freshmen English

ENC 1101 Composition I

3

3

MGF 1106

3

3

ECON 1010

3

3

Select STA 2014C

3

3

Elective* Check restrictions

3

3

English Composition

English Composition

Sophomore Year

Fall

Spring

BSC 1005* req# 1C2-GEP

3

3

CHEM 1021* req# 1A1-GEP

3

3

SPN 1120* req# Lang/Elect

4

4

SPN 1121* req# Lang/Elect

4

4

Elective* Check restrictions

3

3

Elective* Check restrictions

3

3

Application See catalog

Application See catalog

Junior Year

Fall

Spring

ADV 3008 Principles of Ad

3

3

COM 3110 Business and Prof Communication

3

3

Select one course

GEP

Select one course

GEP

Senior Year

Fall

Spring

ADV 4101 Ad Copywriting

3

3

Select one course

GEP

Select one course

GEP

Related Programs: Marketing

Marketing

Related Minors: Business, Psychology

Transfer Notes:

Lower division courses taken at community colleges do not substitute for Upper Division courses.

Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by electives in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.
AEROSPACE ENGINEERING (B.S.A.E.)
College of Engineering and Computer Science
Mechanical, Materials & Aerospace Engineering

Grad Review See catalog. 0 Restricted* req# Res Elect 3
Restricted* req# Res Elect 4 Restricted* req# Res Elect 3
Restricted* req# Res Elect 3 Restricted* req# Res Elect 3

1. UCF General Education Program for (36+2 hrs)

Admission Requirements: none

B. Cultural and Historical Foundations 9 hrs

1. Select two courses from Historical Foundations
   2. Prefer SPC 1016

C. Mathematical Foundations 7 hrs

1. Select MAC 2311 (PR: MAC 1114)
   2. Select STA 3032 (PR: MAC 2312)

D. Social Foundations 6 hrs

1. Take STA 3023
2. Take ANT 2000, PSY 2012,
3. Select STA 3032 (PR: MAC 2312)

E. Science Foundations 7 hrs

1. Take PHY 2048/48L (PR: MAC 2311)
2. Take ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200,

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

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. To enroll in MSAFE major courses, a 2.0 (C or better) in each course is required for those courses in section 2. marked with an asterisk (*). Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

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.

4. Approved Technical Electives (10 hrs)

Technical electives are available in the BSAE program to address specific student interests in a variety of technical areas. Students must consult with their assigned academic advisor for a list of the approved technical electives and the semesters when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)

These are courses a capstone experience to your engineering program and should be completed in your last 2 major semesters of study.

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: 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.
A maximum of 25% of course work must be completed in residency at UCF.
A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Mechanical Engineering.

Aerospace Engineering - 128 semester hours required

**FIRST YEAR**

<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
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<td>Fall</td>
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<td>Spring</td>
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<tr>
<td>E1101 English Comp I</td>
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<tr>
<td>E1102 Eng Comp II</td>
<td>3 hrs</td>
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UCF Degree Programs
UCF Degree Programs

or CHM 2045C w/lab
MAC 2311 Calculus I 4
EGN 1006C Intro to Eng Prof 4
Summer 10 hrs
MAC 2313 Calculus III 4
*Social Foundations 3
SECOND YEAR Fall 13 hrs
*Historical Foundations 3
*MAP 2302 Diff Equations 3
*PHY 2049 Phys Eng II w/lab
EAS 3310 Eng Anal - Statics 3
Summer 9 hrs
*ECO 2013 or 2023 Macro or Micro 3
Third Year Fall 15 hrs
EML 3034 Model Meth's MMAE 3
EAS 4312C Feedback Control 3
Science Foundation 3
EAS 4200 Flight Structures 3
Spring 15 hrs
EAS 3101 Fund of Aerodyn 3
EAS 3810C Dsgn Aerosp Exp II 2
Science Foundation 3
or or EAS 3330 Space Sys Concepts
EAS 4210 Space Structural Dyn 3
Approved technical elective 4
EAS 4412C Interdiscipl Design I 3
EAS 4700C Aerosp Design I 3
Notes:
Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
Students should view the MMAE website (http://www.mmae.ucf.edu) or consult with the MMAE Department in ENGR 307 for a list of approved technical electives and for the terms when specific courses of this type are to be offered. Students should check with MMAE Associate Chairman each semester to ensure they are making satisfactory progress toward their degree.
The State University System requires most students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.
Aerospace engineering students must earn at least 32 hours in residence at UCF.

IMPORTANT NOTICE
Certain courses required for this major serve as key prerequisites or are offered in specific terms. Any deviation from the four-year plan should be discussed with an academic advisor. Failure to take courses as listed may result in a delay in the date of your graduation.
Caution must be taken to ensure that you take courses in a proper sequence according to prerequisites. 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 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.

Accelerated BS/MS Degree Program
The Mechanical, Materials, and Aerospace Engineering Department offers the Accelerated BS/MS program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

ANIMATION TRACK in ART
See Art - Animation Track

ANTHROPOLOGY (B.A.)
College of Sciences
Department of Anthropology, PH 309, 407-823-2227
http://www.cos.ucf.edu/anthropology
E-mail: anthropology@ucf.edu
Contact: A. Chase; 407-823-2227

The Anthropology major results in broad holistic understanding of humans and the human condition, both past and present. Students study all subfields of Anthropology: Archaeology, Cultural Anthropology, Linguistics, and Physical Anthropology.

Students with sufficient course background may participate in ongoing archaeological excavations associated with the Maya culture in the Central American country of Belize.

Admission Requirements:
Degree Requirements
UCF students who change degree programs and select this major must adopt the most current catalog.
Departmental Residency Requirement: at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Anthropology Department
Students must maintain a grade of "C" (2.0) or better in all courses used for the major.
Co-op or internship credit cannot be used in the major without prior approval.
Students should consult with a departmental advisor.
Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
D. Social Foundations
1. Select ANT 2000 3 hrs
2. Select ANT 2511 3 hrs
3. Select ANT 2511* The Human Species
*See Transfer Notes for possible substitutes

2. Common Program Prerequisites (0 hrs)
ANT 2000* General Anthropology GEP
ANT 2511* The Human Species GEP

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

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

5. Area Study (3 hrs)
All students are required to take one of the following courses:
ANT 3158 Florida Archaeology
ANT 3163 Mesoamerican Archaeology
ANT 3164 Ancient Incas
ANT 3168 Maya Archaeology (or ANG 6168)
ANT 3311 Indians of the SE US
ANT 3312 Ethnology of North American Indians
ANT 3313 Indians of N American High Plains
ANT 3314 Indians of the Northeast Woodlands
ANT 3315 Indians of the Northwest Coast
ANT 3320 Indians of the Southwest
ANT 3319 The Anthropology of Diaspora
ANT 4332 Peoples and Culture of Latin America (or ANG 5307)
ANT 4340 Caribbean Cultures (or ANG 5341)
ANT 3388 Life and Death in Ancient Egypt
ANT 3363 Anthropology of Japan

ANTHROPOLOGY (B.A.)
College of Sciences
Department of Anthropology, PH 309, 407-823-2227
http://www.cos.ucf.edu/anthropology
E-mail: anthropology@ucf.edu
Contact: A. Chase; 407-823-2227

The Anthropology major results in broad holistic understanding of humans and the human condition, both past and present. Students study all subfields of Anthropology: Archaeology, Cultural Anthropology, Linguistics, and Physical Anthropology.

Students with sufficient course background may participate in ongoing archaeological excavations associated with the Maya culture in the Central American country of Belize.

Admission Requirements:
Degree Requirements
UCF students who change degree programs and select this major must adopt the most current catalog.
Departmental Residency Requirement: at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Anthropology Department
Students must maintain a grade of "C" (2.0) or better in all courses used for the major.
Co-op or internship credit cannot be used in the major without prior approval.
Students should consult with a departmental advisor.
Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
D. Social Foundations
1. Select ANT 2000 3 hrs
2. Select ANT 2511 3 hrs
3. Select ANT 2511* The Human Species
*See Transfer Notes for possible substitutes

2. Common Program Prerequisites (0 hrs)
ANT 2000* General Anthropology GEP
ANT 2511* The Human Species GEP

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

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

5. Area Study (3 hrs)
All students are required to take one of the following courses:
ANT 3158 Florida Archaeology
ANT 3163 Mesoamerican Archaeology
ANT 3164 Ancient Incas
ANT 3168 Maya Archaeology (or ANG 6168)
ANT 3311 Indians of the SE US
ANT 3312 Ethnology of North American Indians
ANT 3313 Indians of N American High Plains
ANT 3314 Indians of the Northeast Woodlands
ANT 3315 Indians of the Northwest Coast
ANT 3320 Indians of the Southwest
ANT 3319 The Anthropology of Diaspora
ANT 4332 Peoples and Culture of Latin America (or ANG 5307)
ANT 4340 Caribbean Cultures (or ANG 5341)
ANT 3388 Life and Death in Ancient Egypt
ANT 3363 Anthropology of Japan
ANT 4144: Prehistory of North America
ANT 4153: North American Archaeology
ANT 4352: African Societies and Cultures
ANT 4354: Postcolonial Africa
ANT 4308: Gender Issues in Latin America

6. Restricted Electives (18 hrs)
Six other Anthropology courses must be taken to complete the major. These may include other area study courses (see 5. above) or any other Anthropology courses that may be offered (see below).

ANT 4101: Archaeological Sciences (or ANG 5100)
ANT 3115: Archaeological Method and Theory
ANT 3142: Old World Prehistory
ANT 4184: Mortuary Archaeology (or ANG 5741)
ANT 3212: Peoples of the World
ANT 3241: Magic, Ritual, and Belief
ANT 3245: Native American Religions
ANT 3262: Rural Society
ANT 3273: Law and Culture
ANT 3302: Sex, Gender, and Culture
ANT 3316: Black/Seminole Relationships
ANT 4438: Anthropology of Tourism (or ANG 5437)
ANT 4467: Nutritional Anthropology (or ANG 5467)
ANT 3541: Biobehavioral Anthropology
ANT 3550: Primatology
ANT 3701: Applied Anthropology
ANT 4702: Culture, Power, and Development (or ANG 5272)
ANT 4802: Ethnographic Field Methods
ANT 4180C: Seminar in Laboratory Analysis
ANT 4266: Economic Anthropology
ANT 4462: Medical Anthropology
ANT 4516: Human Biological Diversity
ANT 4521C: Forensic Anthropology
ANT 4525C: Human Osteology
ANT 4528C: Advanced Forensic Anthropology
ANT 4824: Advanced Archaeological Field Work
ANG 5169: Maya Field Research
ANG 5166: Problems of Maya Studies
ANG 5167: Maya Hieroglyphs
ANG 5228: Maya Iconography
ANG 5622: Language, Culture, and Pedagogy
ANG 5742: Problems in Forensic Anthropology

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.
- Before applying to graduate, the CLAST must be completely satisfied.

8. Foreign Language Requirements (0-8 hrs)
Admission: Met by graduation requirement.
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

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

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

Total Semester Hours Required: 120 hrs

Related Programs: Graduate Certificate in Maya Studies
Related Minors: African-American Studies, American Studies, Anthropology, Anthropology in Multicultural Studies, Asian Studies, Judaic Studies, Latin American, Caribbean, and Latino Studies, Russian Area Studies, Sociology, and Women’s Studies

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- ANT 2000: any ANT course. However, this course is a prerequisite and must be taken regardless.
- ANT 2511: any ANT course. However, ANT 2511 will need to be taken for the major.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by electives in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year
Fall
ANT 2000 General Anthro 3
ENC 1101 Composition I 3
EUH 2000* req# 1B1-GE
ANT 2100 Arch of th of 3
MAC 1105 College Algebra 3
COM 1000* req# 1A3-GE
SPN 1120* req# Lang/Elect 4

Spring
ANT 2511 The Human Species 3
ARCH 2100 Cult Anthro Anthro 3
PSC 1121* req# 1E1-GE
COM 1000* req# Lang/Elect 4

Sophomore Year
Fall
ANT 2511 The Human Species 3
ARCH 2100 Cult Anthro Anthro 3
PSC 1121* req# 1E1-GE

Spring
ANT 2100 Arch of the 3
PSC 1121* req# 1E1-GE

Junior Year
Fall
ANT 2000 General Anthro 3
ANT 2511 The Human Species 3
SPN 1121* req# Lang/Elect 4

Spring
ANT 2000 General Anthro 3
ANT 2511 The Human Species 3
SPN 1121* req# Lang/Elect 4

Senior Year
Fall
ANT 2000 General Anthro 3
ANT 2511 The Human Species 3
SPN 1121* req# Lang/Elect 4

Spring
ANT 2000 General Anthro 3
ANT 2511 The Human Species 3

APPLIED SCIENCE (B.A.S.)
A.S. to B.A.S.
Note: For detailed information about this program, see description in the AS to BS Programs section

ART (B.F.A.)
College of Arts and Humanities
Art Department, VAB 117, 407-823-2676
http://www.art.ucf.edu/
E-mail: art@ucf.edu
Contact: J. Chavda, 407-823-2676

The BFA degree is recommended for studio art majors who plan to attend graduate school.

Note: Although the department maintains a small computer lab for student use, Graphic Design majors must have continual access to a laptop computer. Contact the department for the minimum hardware and software specifications.

The Art Department affirms that a theoretical and working understanding of the historical meanings and studio applications of the human image are critical in the education of Visual Art and Art History students. To develop such an understanding, Art Department courses often utilize images of clothed and unclothed human figures and, in certain studio classes, live nude models.

Admission Requirements
- All junior level students in this program (except Graphic Design students) must satisfactorily complete the mandatory ART 3950 - Portfolio Review before enrolling in upper division ART courses.
- The Spring review takes place in the first week of March. The Fall review takes place in the first week of October.
- Graphic Design students must satisfactorily complete the
mandatory Graphic Design Portfolio Review for admission to this restricted access program, to be admitted in the following Fall. The application deadline is April 1 for Fall admission.

- Students unable to satisfactorily complete either above requirement, ART 3950 – Portfolio Review or the Graphic Design Portfolio Review, may continue in the Art Department in the Art History track.

- Students may enter the BFA Program as early as the first semester of their Junior year. If they have a 3.0 overall average in ART courses, they are automatically accepted. Students who do not meet these requirements may petition the BFA committee for acceptance.

- "D" grades from other institutions do not meet departmental requirements.

- Note: Individual portfolio reviews are not possible due to the large number of applicants to the program.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.

- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these must be in an area of specialization.

- BFA students must maintain a 3.0 GPA in all ART courses.

- Co-op credit cannot be used in this major.

- Students should consult with a departmental advisor in their studio 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 a course from group B.1 3 hrs
  - Select ARH 2050 3 hrs
  - Select ARH 2051 3 hrs

- C. Mathematical Foundations
  - Prefer MGF 1106 (may substitute a higher level math) 3 hrs
  - Prefer STA 1060C 3 hrs

- D. Social Foundations 6 hrs

- E. Science Foundations 6 hrs

2. Common Program Prerequisites (24 hrs)

- ART 2201C Design Fundamentals 2-D 3 hrs
- ART 2203C* Design Fundamentals 3-D 3 hrs
- ART 2300C* Drawing Fundamentals I 3 hrs
- ART 2301C* Drawing Fundamentals II 3 hrs
- ARH 2050 History of Western Art I GEP 3 hrs
- ARH 2051 History of Western Art II GEP 3 hrs
- GRA 2101C* Intro to Computer Art 3 hrs
- Any ART prefix, studio, or media courses at the 2000-4000 levels 3 hrs

*See Transfer Notes for possible substitutes

3. Core Requirements (6 hrs)

- ART 2520 Art as Interface 3 hrs
- ARH 2551 Survey of Non-Western Art 3 hrs
- ART 3950 Portfolio Review 0 hrs

4. Restricted Electives (42 hrs)

- a. Specialization: 18 hrs
  - Select six upper division courses from one area: (classes with an asterisk may be repeated for credit)


  - Ceramics (ART 3760C, ART 3764C, ART 4783C*)

  - Drawing (ART 3332C, ART 4320C*)

  - Drawing/Printmaking Combination (ART 3332C, ART 4320C*, ART 4343C, ART 4402C*)

  - Drawing/Illustration Combination (ART 3332C, GRA 3151C, ART 4320C*, GRA 4154C*)

  - Graphic Design (GRA 3100C, GRA 3112C, GRA 3801C, GRA 4196C, GRA 4197C*, GRA 4802C)

  - Painting (ART 3504C, ART 4505C*)

  - Photography (PGY 3410C, PGY 4420C*, PGY 4440C)

  - Sculpture (ART 4710C*).

*may be repeated for credit

- b. Elective in Art: 15 hrs
  - Select five Art courses; two of which may be lower division. Select from at least three of the following areas, excluding the area of specialization.

  - Animation, Ceramics, Drawing, Graphic Design, Illustration, Painting, Photography, Printmaking, Sculpture, and Special Topics Studio Courses.

- c. Additional Electives 9 hrs
  - Select three upper-division Art History courses

  or

  - Select one upper division course in Art History, Humanities, and Social Science. (A maximum of six hours of Independent Study, Practicum, and Internship are permitted).

5. Departmental Exit Requirements (3 hrs)

- ART 4935 BFA Exhibit/Seminar required, except for Graphic Design specialization

  (BFA Exhibit Seminar is only offered during Spring Semester)

- Achieve at least a “B” GPA (3.0) overall in courses within the major

- Each senior is required to submit a portfolio of representative work in the student's specialization, for review and approval by faculty, during their last semester of matriculation toward the degree

- Computer Competency met by STA 1060C or GRA 2101C

6. Foreign Language Requirements (0-8 hrs)

- Admission: Met by graduation requirement

- Graduation: Proficiency equivalent to one year of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)

- Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA

- 60 semester hours earned after CLEP awarded

- 48 semester hours of upper division credit completed

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

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

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

Total Semester Hours Required 120 hrs

Related Programs: Art History, Studio Art (BA), Art Education, Animation, Digital Media

Related Minors: Partners in Visual Art Education

Transfer Notes:

- Courses taken at community colleges do not substitute for Upper Division courses.

- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

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

- GRA 2101C*: A student may substitute any three hour digital art course; however, GRA 2101C is a prerequisite for subsequent art courses and will need to be taken for the major.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.
### ART - ANIMATION TRACK (B.F.A.)

**College of Arts and Humanities**

**Animation, VAB 210, 407-823-3110**

E-mail: animation@ucf.edu

Contact: K. Kovach 407-823-2983

Note: Although the department maintains a small computer lab for student use, Animation majors must have continual access to a lap top computer. Contact the department for the minimum hardware and software specifications.

The Art Department affirms that a theoretical and working understanding of the historical meanings and studio applications of the human image are critical in the education of Visual Art and Art History students. To develop such an understanding, Art Department courses often utilize images of clothed and unclothed human figures and, in certain studio classes, live nude models.

#### Admission Requirements

- **Animation students must successfully complete an Animation Portfolio Review to be admitted to this restricted access program.** The Animation Portfolio Review submission deadline is March 15 for admission in the following Fall semester, and October 15 for admission in the following Spring semester.
- **Applications must include a portfolio of work done in courses, such as drawings, design projects, computer graphics, animation work, and storyboards.**
- **Students should complete ART 2201C and ART 2300C before applying to be accepted in the Animation BFA program.**
- **Students must maintain an overall minimum 3.0 GPA in ART 2201C and ART 2300C.**
- **Students must submit a satisfactory drawing portfolio to be admitted to FIL 3286C.**

**Note:** Unfortunately, individual reviews are not possible due to the large number of applicants to this program.

#### Degree Requirements

- **Students who change degree programs and select this major must adopt the most current catalog.**
- **Grades below “C” (2.0) in lower level courses do not satisfy major requirements.**
- **Co-op credit cannot be used in the major.**
- **“D” grades from other institutions do not meet departmental requirements.** Students should consult with a departmental advisor.

- **Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken within the UCF Art and Film programs.** Nine of these must be in Animation specialization.

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

The following courses are taken in the following years:

#### 1. UCFArt General Education Program (36 hrs)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**Admission:** Can be completed in the first year. Students should consult with a departmental advisor before taking these courses.

#### 2. Common Program Prerequisites (18 hrs)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Introduction to Animation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Drawing Fundamentals</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Drawing Fundamentals</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. History of Western Art</td>
<td>3 hrs</td>
</tr>
<tr>
<td>E. History of Western Art</td>
<td>3 hrs</td>
</tr>
<tr>
<td>F. Intro to Computer Art</td>
<td>3 hrs</td>
</tr>
<tr>
<td>G. Any two upper level Art or Film History courses</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

**Note:** *Workshops may be repeated*.

#### 3. Core Requirements (12 hrs)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Art Interface</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Survey of Non-Western Art</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Any two upper level Art or Film History courses</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

#### 4. Animation Upper Division Courses (18 hrs)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Digital Effects and Compositing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Introduction to Animation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Intermediate Animation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>D. History of Animated Films</td>
<td>3 hrs</td>
</tr>
<tr>
<td>E. Advanced Animation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>F. Animation Workshop</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**Note:** *Workshops may be repeated*.

#### 5. Restricted Electives

**Electives in Art**

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Ceramics, Drawing, Painting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>B. Illustration, Photography</td>
<td>3 hrs</td>
</tr>
<tr>
<td>C. Sculpture, Special Topics</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**Note:** Select from at least three of the following areas, excluding the area of specialization:

- **Ceramics, Drawing, Painting, Printmaking, Illustration, Photography, Printmaking, Sculpture, and Special Topics**

#### 6. Departmental Exit Requirements

- **ART 4971 Thesis**
  - 3 hrs

- **Achieve at least a 3.0 average in required art and film courses**
  - 3 hrs

- **Computer Competency met by CGS 1060C or GRA 2101C**
  - 3 hrs

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

**Admission:** Met by graduation requirement

**Graduation:** Proficiency equivalent to one year of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

**Electives (variable)**

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

#### 8. Electives

Select five courses, two of which may be lower division

- **Graphic, Production, Screen writing, Radio/TV**

#### 9. University Minimum Exit Requirements

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

**Total Semester Hours Required**

- **120 hrs**

**Related Programs:** Art, Art Education, Art History, Film Production/Screen writing, Radio/TV
ART 2203C Design Fundamentals 3 D 3  
ART 2301C Drawing Fundamentals II 3  
COM 1000* req# 1A3-GEP 3  
BSC 1005* req# 1E2-GEP 3  

Fall Spring  
ART 2820 Art as Interface 3  
Elective* Check restrictions 3  
MGF 1106* req# 1C1-GEP 3  
ART 2201C Design Fundamentals 2-D 3  
HUM 2210* req# 1B1-GEP 3  
ENC 1102 Composition II 3  
ENC 1101 Composition I 3  
CGS 1060C Intro to Comp Sci 3  
ARH 2050 His of West Art I 3  
ARH 2051 His of West Art II 3  

Fall Spring  
Freshman Year  

One of numerous possible plans of study. See program description for alternate, new or more appropriate selections.  

Freshman Year  

Fall  
ARH 2050 His of West Art I 3  
ENC 1101 Composition I 3  
HUM 2210* req# 1B1-GEP 3  
MGF 1106* req# 1C1-GEP 3  
ART 2820 Art as Interface 3  
Elective* Check restrictions 3  

Sophomore Year  

Fall  
COM 1000* req# 1A3-GEP 3  
POS 2041* req# 1D1-GEP 3  
ART 2203C Design Fundamentals 3 D 3  
ART 2300C Drawing Fund I 3  
GRA 2101C Intro to Comp Art 3  

Spring  
GRA 3151C* req# 3-Core 3  
GRA 3515C* req# 3-Core 3  
ART 3643C Dig Effects Compst 3  
PGY 2401C* req# 5-ResEl 3  
SPH 1120* req# Lang/Elect 4  
Application See catalog 0  

Junior Year  

Fall  
ART 1311* req# 3-Core 3  
GRA 3151C* req# 3-Core 3  
ART 3643C Dig Effects Compst 3  
PGY 2401C* req# 5-ResEl 3  
SPH 1120* req# Lang/Elect 4  

Spring  
FIL 3286C Intro to Animation 3  
FIL 3287C Int Animation 3  
FIL 3410 His of Anim Films I 3  
ART 3332C* req# 5-ResEl 3  
ART 4320C* req# 5-ResEl 3  
SPH 1121* req# Lang/Elect 4  
Application See catalog 0  

Senior Year  

Fall  
ARH 2500 His of West Art 3  
FIL 4289C Advanced Animation 3  
PGY 3410C* req# 5-ResEl 3  
Elective* Check restrictions 3  

Spring  
ART 4971 Senior Thesis 3  
ART 4971 Senior Thesis 3  

ART - HISTORY TRACK (B.A.)  
College of Arts and Humanities  
Art Department, VAB 117, 407-823-2676  
http://www.art.ucf.edu/  
E-mail: art@ucf.edu  
Contact: M. Gonzalez, 407-823-4995  

The Art Department affirms that a theoretical and working understanding of the historical meanings and studio applications of the human image are critical in the education of Visual Art and Art History students. To develop such an understanding, Art Department courses often utilize images of clothed and unclothed human figures and, in certain studio classes, live nude models.  

Admission Requirements  

Degree Requirements  

- Students who change degree programs and select this major must adopt the most current catalog.  
- Grades below “C” (2.0) in lower level courses do not satisfy major requirements.  
- Co-op credit cannot be used in the major.  
- Students should consult with a departmental art history advisor.  
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Art. Nine of these must be in an area of ARH specialization.  
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.  

1. UCF General Education Program  

(36 hrs)  
A. Communication Foundations 9 hrs  
B. Cultural and Historical Foundations 3 hrs  
- Prefer a course from group B.  
- Select ARH 2050 History of Western Art I 3 hrs  
- Select ARH 2051 History of Western Art II 3 hrs  
C. Mathematical Foundations 3 hrs  
- Prefer MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs  
- Prefer STA 1060C Statistics Using Excel 3 hrs  
D. Social Foundations 6 hrs  
E. Science Foundations 6 hrs  

2. Common Program Prerequisites  

(12 hrs)  
ART 2201C Design Fundamentals 2-D 3  
ART 2300C Drawing Fundamentals I 3  
ART 2505 History of Western Art I 3  
ARH 2051 History of Western Art II 3  

3. Core Requirements  

(18 hrs)  
ARH 2500 Survey Non-Western Art 3 hrs  
ARH 2430 Italian Renaissance Art 3 hrs  
ARH 4350 Twentieth Century Art 3 hrs  
ARH 4800 Theory and Criticism of Visual Arts 3 hrs  
ENC 3311 Advanced Expository Writing 3 hrs  

4. Restricted Electives  

(21 hrs)  

a. One Non-Western Art History Course: 3 hrs  
ARH 3520 African Art 3 hrs  
ARH 4545 Art of India 3 hrs  
ART 4655 MesoAmerican Art 3 hrs  

b. One of the following courses: 3 hrs  
ARH 4200 Medieval Art 3 hrs  
ART 4350 Baroque Art 3 hrs  
ART 4350 Baroque Art 3 hrs  

- Select 15 additional hours from following: 15 hrs  
ARH 3471 Art in Last 25 Years 3 hrs  
ART 3520 African Art 3 hrs  
ART 3510 American Art 3 hrs  
ART 3710 History of Photography I 3 hrs  
ART 3711 History of Photography II 3 hrs  
ART 3720 History of Prints 3 hrs  
ART 4170 Greek and Roman Art 3 hrs  
ART 4350 Baroque Art 3 hrs  
ART 4655 MesoAmerican Art 3 hrs  
ART 4892 Women in Art 3 hrs  
ART 5897 Adv. Seminar in Art History 3 hrs  
ART 3XX-4XXX Additional Art History course 3 hrs  

5. Departmental Exit Requirements  

(4 hrs)  
ARH 4912 Senior Thesis 3 hrs  
AR 4906 Comprehensive Exam 1 hr  

- Achieve at least a “C” GPA (2.0) in courses within the major.  
- Computer Competency met by STA 1060C, GRA 2101C, or ARH 3820  

6. Foreign Language Requirements  

(0-11 hrs)  
Admission: Met by graduation requirement.  
Graduation: Proficiency equivalent to four semesters of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. German, French or Italian preferred, although other languages are acceptable with prior consent of advisor. Standardized examinations for foreign languages may be used to meet the requirement.  

7. Electives  

(variable)  
Select primarily from upper level courses, with departmental advisor’s approval. May be outside of the department.  
(A maximum of six hours of Independent Study, Practicum, and Internship are permitted).  

8. University Minimum Exit Requirements  

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

Total Semester Hours Required 120 hrs

Related Programs: Studio Art (BA, BFA), Art Education, Animation, Digital Media.

Related Minors: Studio Art, Partners in Visual Art Education

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

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall
- ARH 2050 His of West Art I 3
- ENC 1101 Composition I 3
- HUM 2210* req# 1B1-GEP 3
- MGF 1106* req# 1C1-GEP 3
- ARH elective 3

Spring
- ARH 2051 His of West Art II 3
- ENC 1102 Composition II 3
- STA 1060C Stat Using Excel 3
- ARH 2500 His of Art 3
- Elective* Check restrictions 3

Sophomore Year

Fall
- COM 1000* req# 1A3-GEP 3
- POS 2041* req# 1D1-GEP 3
- ART 2210C Design Fund 2 D 3
- ART 2300C Drawing Fund I 3
- ENC 3211 Adv Exp Writing 3

Spring
- ARH 2000* req# 1D2-GEP 3
- BSC 1005* req# 1E2-GEP 3
- CHM 1020* req# 1E1-GEP 3
- ARH 4545* req# 4a-ResEl 3
- SPN 1120* req# Lang/Elect 4

Junior Year

Fall
- ARH 4310 Italian Renais Art 3
- ARH 4450 20th Century Art 3
- ARH 3710* req# 4c-ResEl 3
- ARH 4695* req# 4c-ResEl 3
- SPN 1121* req# Lang/Elect 3

Spring
- ARH 4170* req# 4b-ResEl 3
- ARH 4912 Senior Thesis 3
- Elective* Check restrictions 3
- Elective* Check restrictions 3
- SPN 2200* req# Lang/Elect 3

Senior Year

Fall
- ARH 4350* req# 4b-ResEl 3
- ARH 4912 Senior Thesis 3
- Elective* Check restrictions 3
- Elective* Check restrictions 3
- Elective* Check restrictions 3

Spring
- ARH 4170* req# 4c-ResEl 3
- Elective* Check restrictions 3
- Elective* Check restrictions 3
- Elective* Check restrictions 3
- Elective* Check restrictions 3

Note: Grades below “C” (2.00) in lower level ART courses do not satis-
fy major requirements.

- Co-op credit cannot be used in the major.
- Students should consult with a departmental advisor in their special-
ization.

The 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 hours 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)
- Communication Foundations
  - Select a course from group B.1
  - Select ARH 2050 The History of Western Art I 3
  - Select ARH 2051 The History of Western Art II 3
  - Select a course from either group B.1 or B.2

- Cultural and Historical Foundations
  - Select MGF 1106 Finite Mathematics
  - Select STA 1060C Statistics Using Excel

- Mathematical Foundations
  - Select PreCalculus Math
  - Select PreCalculus Math

- Social Foundations
  - Select PreCalculus Math

- Science Foundations
  - Select PreCalculus Math

2. Common Program Prerequisites (24 hrs)
- ART 2201C Design Fundamentals 2-D
- ART 2202C Design Fundamentals 3-D
- ART 2300C Drawing Fundamentals I
- ART 2301C Drawing Fundamentals II
- ARH 2050 The History of Western Art I
- ARH 2051 The History of Western Art II
- GRA 2101C Intro to Computer Art

- Select ART XX00-4XXX any ART prefix, studio or media course

*See Transfer Notes for possible substitutes

3. Core (6 hrs)
- ART 2820 Art As Interface 3
- ART 2500 History of Non-Western Art 3
- ART 3950 Portfolio Review 0

4. Restricted Electives (27 hrs)

Specialization:
- Select nine upper division courses from at least three areas:

**Art History** (any upper level ARH courses)
- Select ART 2050 The History of Western Art I 3
- Select ARH 2051 The History of Western Art II 3
- Select a course from group B.1 3

**Painting** (ART 3504C, ART 4505C*)
- Select ART 3504C
- Select ART 4505C*

**Sculpture** (ART 3171, ART 4173)
- Select ART 3171 Book Binding
- Select ART 4173

**Graphic Design**
- Select ARH 3950 Portfolio Review

5. Departmental Exit Requirement
- Achieve at least a “C” GPA (2.0) overall in courses within the major.
- Complete the UCF General Education Program and the major.
- Computer Competency met by STA 1060C or GRA 2101C

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a single foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized exami-
nations for foreign languages may be used to meet the requirement.

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
UCF Degree Programs

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

Total Semester Hours Required: 120 hrs

Related Programs: 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 take prior to transferring to UCF:
- GRA 2101C: may substitute 3 hours of any digital art course; however, GRA 2101C is a prerequisite for subsequent art courses and will need to be taken for the major

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>ARH 2050</td>
<td>ENC 1101</td>
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<tr>
<td>His of Art I</td>
<td>ENC 1102</td>
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<tr>
<td>HUM 2210* req#</td>
<td>STA 1060C</td>
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<td>1BI- GEP</td>
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<tr>
<td>MGF 110* req#</td>
<td>ART 2201C</td>
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<td>1C1-GEP</td>
<td>Design Fund 2 D</td>
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<tr>
<td>ART 2820</td>
<td>Elective* Check restrictions</td>
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<td>Art as Interface</td>
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Sophomore Year

<table>
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<tbody>
<tr>
<td>COM 1000* req#</td>
<td>ANT 2000* req#</td>
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<td>1D2-GEP</td>
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<td>ART 2203C</td>
<td>ART 2301C</td>
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<td>Design Fund 3 D</td>
<td>Drawing Fund II</td>
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<td>ARH 2500</td>
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<td>GRA 2101C Intro to Comp Art</td>
<td>ART 3950 Portfolio Review</td>
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<td>ART 4220C* req#</td>
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<td>ARH 4430* req#</td>
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<td>ART 4202C* req#</td>
<td>ART 4154C* req#</td>
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<td>Elective* Check restrictions</td>
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</table>

ART EDUCATION (B.S.)
Department of Teaching and Learning Principles, ED 209
http://pegasus.cc.ucf.edu/~arted

Program Coordinator: Dr. Thomas Brewer, ED 122-U, 407-823-3714, E-mail: tbrewer@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 GPA overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
- Complete all Education Common Program Prerequisite courses and Other Program Prerequisites with a minimum letter grade of "C-" (1.75) or better
- Meet the Gordon Rule Requirement

Degree Requirements
- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education), 2. (Education Common Program Prerequisites), and 3. (Other Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- This is a state-approved, initial teacher preparation program designed in compliance with Florida Statutes and State Board of Education Rule 6A-5.086. Degree requirements are subject to change based on state mandates.

1. UCF General Education Program* (36 hrs)

<table>
<thead>
<tr>
<th>A. Communication Foundation</th>
<th>9 hrs</th>
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<tbody>
<tr>
<td>1. ENC 1101 English Language I</td>
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<tr>
<td>2. ENC 1102 English Language II</td>
<td>3 hrs</td>
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</table>

<table>
<thead>
<tr>
<th>B. Cultural-Historical Foundation</th>
<th>9 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Prefer: AMH 2010 U.S. History 1492-1877</td>
<td>3 hrs</td>
</tr>
<tr>
<td>2. Select: ARH 2050 History of Western Art I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>2. (A grade of “C-” (1.75) or better is required in ARH 2050)</td>
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<tr>
<td>3. Prefer: AMH 2020 U.S. History 1877-present</td>
<td>3 hrs</td>
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<table>
<thead>
<tr>
<th>C. Mathematical Foundation</th>
<th>6 hrs</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Prefer: MGF 1106 Finite Mathematics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>2. Prefer: STA 1060C Basic Statistics using MS Excel or STA 2014C Principles of Statistics</td>
<td>3 hrs</td>
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<table>
<thead>
<tr>
<th>D. Social Foundation</th>
<th>6 hrs</th>
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</thead>
<tbody>
<tr>
<td>1. Prefer: POS 2041 American National Government</td>
<td>3 hrs</td>
</tr>
<tr>
<td>2. Prefer: PSY 2012 General Psychology</td>
<td>3 hrs</td>
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<table>
<thead>
<tr>
<th>E. Science Foundation</th>
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<tbody>
<tr>
<td>1. Prefer: PSC 1121 Physical Science</td>
<td>3 hrs</td>
</tr>
<tr>
<td>2. Prefer: ANT 2511 The Human Species or BSC 1005 Biological Principles</td>
<td>3 hrs</td>
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*Note: students are strongly advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)

<table>
<thead>
<tr>
<th>EDF 2005</th>
<th>Introduction to Education</th>
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<table>
<thead>
<tr>
<th>EDF 2701</th>
<th>Teaching Diverse Populations</th>
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<table>
<thead>
<tr>
<th>EME 2040</th>
<th>Technology for Educators</th>
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<td>3 hrs</td>
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</table>

Note: in addition to EDF 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Prerequisites (30 hrs)

<table>
<thead>
<tr>
<th>*ARH 2050</th>
<th>History of Western Art I</th>
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<tr>
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<table>
<thead>
<tr>
<th>*ARH 2051</th>
<th>History of Western Art II</th>
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<table>
<thead>
<tr>
<th>*ART 2201C</th>
<th>Designs Fundamentals I</th>
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<table>
<thead>
<tr>
<th>*ART 2203C</th>
<th>Designs Fundamentals II</th>
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<table>
<thead>
<tr>
<th>*ART 2300C</th>
<th>Drawing Fundamentals I</th>
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<table>
<thead>
<tr>
<th>*ART 2301C</th>
<th>Drawing Fundamentals II</th>
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<table>
<thead>
<tr>
<th>*GRA 2101C</th>
<th>Intro to Computer Graphics</th>
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<table>
<thead>
<tr>
<th>ART 2754C</th>
<th>Ceramics</th>
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<table>
<thead>
<tr>
<th>ART 2500C</th>
<th>Painting</th>
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<table>
<thead>
<tr>
<th>ART 2400C</th>
<th>Printmaking</th>
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<table>
<thead>
<tr>
<th>PGY 2401C</th>
<th>Photography</th>
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<tbody>
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*Prerequisites for all 3000 and 4000 core and elective ARE and ART courses.

4. Education Core Requirements (15 hrs)

<table>
<thead>
<tr>
<th>EDF 4410</th>
<th>Teaching Strategies and Classroom Mgmt</th>
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<tbody>
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<td>3 hrs</td>
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<table>
<thead>
<tr>
<th>EDF 4467</th>
<th>Learning Theory and Assessment</th>
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<table>
<thead>
<tr>
<th>EDF 4603</th>
<th>Analysis and Applications of Ethical, Legal, and Safety Issues in Schools</th>
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<table>
<thead>
<tr>
<th>TSL 4080</th>
<th>Theory and Practice of Teaching ESOL</th>
</tr>
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<tbody>
<tr>
<td>3 hrs</td>
<td>Students in Schools</td>
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<table>
<thead>
<tr>
<th>RED 4043</th>
<th>Content Reading Kindergarten through Grade 12</th>
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<tbody>
<tr>
<td>3 hrs</td>
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</table>

Prior to Internship I, the student must have completed EDF 4410 Teaching Strategies and Classroom Management and at least 50% of all required art courses indicated above with a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.

Passing score on the General Knowledge Test portion of the Florida Teacher Certification Exam (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.

Passing score on the Professional Education Test portion of the Florida Teacher Certification Exam (FTCE) is strongly recommended as soon as possible after completing the following courses: EDF 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED
4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.

- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.clinicalexperiences.education.ucf.edu.

5. Internship I (3 hrs)

ESE 3940 Internship I 3 hrs

6. Specialization Requirements (12 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ARE 4350 Teaching Art Appreciation &amp; Criticism</td>
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<tr>
<td>ARE 4351 Teaching Art in the Elementary School</td>
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<tr>
<td>ARE 4352 Teaching Art in the Secondary School</td>
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<tr>
<td>ARE 4250 Art for Exceptionalities</td>
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7. Restricted Electives (9 hrs)

Any 3000 or 4000 level ART, ARE, ARH, PGY (with advisor's approval)

- Passing score on the Subject Area Examination (Art K-12) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.

- All art courses and all methods courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization, and overall for admission to Internship II.

- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.clinicalexperiences.education.ucf.edu.

- 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-5.066.

8. Internship II Block (13 hrs)

<table>
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<th>Course</th>
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<tr>
<td>ESE 4943 Internship II K-12</td>
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<tr>
<td>ESE 4942 Internship II Seminar Secondary</td>
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</table>

9. Foreign Language Requirements (0-6 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)

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
- 40 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- 25% of course work must be completed in residence at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

12. Total Program Semester Hours Required 127 hrs

Consult with your Education advisor and review your degree audit for more recent information.

13. Recommended Four Year Sequence of Course

<table>
<thead>
<tr>
<th>Freshman Year</th>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 2005 Intro to Education</td>
<td>3 hrs</td>
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<tr>
<td>ENC 1101 English Composition I</td>
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<tr>
<td>MGF 1106 Finite Mathematics</td>
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<tr>
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<td>Summer</td>
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<tr>
<td>EME 2040 Teach for Educators</td>
<td>3 hrs</td>
<td>3 hrs</td>
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<tr>
<td>SPC 1600 Fund of Oral Comm</td>
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<tr>
<td>AMH 2102 US History 1402-1877</td>
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<tr>
<td>ART 2200 Designs Fundamental II</td>
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<tr>
<td>BSC 1005 Biological Principles</td>
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<tr>
<td>STA 2041C Principles of Statistics</td>
<td>3 hrs</td>
<td>3 hrs</td>
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<tr>
<td>STA 1000C Basic Stat using MS Excel</td>
<td>3 hrs</td>
<td>3 hrs</td>
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<tr>
<td>Summer</td>
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<td>3 hrs</td>
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<tr>
<td>GRA 2101C Intro to Comp Graphics</td>
<td>3 hrs</td>
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<td>PGY 2401C Photography</td>
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<th>Junior Year</th>
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<tr>
<td>ARE 4356 Teach Art Apprec &amp; Critic</td>
<td>3 hrs</td>
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<tr>
<td>ART 2301C Drawing Fund II</td>
<td>3 hrs</td>
<td>3 hrs</td>
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<tr>
<td>EDF 4467 Learn Theory &amp; Assess</td>
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<tr>
<td>EDG 4410 Teach Strat &amp; Class Mgmt</td>
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<td>3 hrs</td>
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<tr>
<td>TSL 4080 Theory &amp; Prac of Teach ESOl Students in Schools</td>
<td>3 hrs</td>
<td>3 hrs</td>
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<tr>
<td>Summer</td>
<td>(6 hrs)</td>
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<tr>
<td>ART 2754C Ceramics</td>
<td>3 hrs</td>
<td>3 hrs</td>
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<tr>
<td>Restricted elective</td>
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<tbody>
<tr>
<td>ARE 4351 Teach Art in the Elem Sch</td>
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<tr>
<td>EDF 4501A Anal &amp; Appl of Ed, Legal, &amp; Safety Issues in Sch</td>
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<td>ARE 4250 Art for Exceptionalities</td>
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<tr>
<td>ESE 3940 Internship I</td>
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1. UCF General Education Program (36+3 hrs)

(Note: Certain courses must be selected in the GEP for this major, bringing the total GEP hours to more than 36.)

A. Communication Foundations
   1. Select ENC 1101 and ENC 1102 6 hrs
   2. Prefer SPC 1016 3 hrs

B. Cultural and Historical Foundations 9 hrs

C. Mathematical Foundations
   1. Select MAC 2311 or MAC 2241 4 hrs
   2. Select STA 2023 3 hrs

D. Social Foundations 6 hrs

E. Science Foundations
   1. Select CHM 2045C or CHM 2040C & 2041C 4 hrs
   2. Select BSC 2010C 4 hrs

2. Common Program Prerequisites (16 hrs)

- Select one Calculus course
- Select one Calculus course

- MAC 2311* Calculus w/ Analy Geometry I

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

Contact: F. Loguidice, 407-823-2141
3. Core requirements (21-23 hrs)
Select one Chemistry sequence and one Biology sequence:
- CHM 2040C plus CHM 2041C can substitute for CHM 2045C
- *See Transfer Notes for possible substitutes

+CHM 2040C plus CHM 2041C can substitute for CHM 2045C

4. Upper Division Restricted Electives (22 hrs)
- Courses must be selected from the groupings listed below.
- Student must complete at least one course dealing exclusively with animals (marked ‘a’) and one course dealing exclusively with plants (marked ‘b’).
- At least three credit hours from each group must be completed.
- At least 10 hours of the Upper Division Restricted electives must be taken within the UCF Biology Department. Courses offered by the Department of Biology have been designated with an asterisk (*).
- Transferred courses must be at a 3000 level or higher, and be evaluated by a departmental advisor, in order to count as an Upper Division Restricted Elective.
- Courses at the 5000 level are only open to seniors and beginning graduate students.

4.1 Form/Function (minimum of one lecture course)

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>BCH 4053</td>
<td>Biochemistry I</td>
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<tr>
<td>BCH 4054</td>
<td>Biochemistry II</td>
<td>3</td>
</tr>
<tr>
<td>b BOT 4223C</td>
<td>Plant Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>b BOT 4303C</td>
<td>Plant Kingdom</td>
<td>5</td>
</tr>
<tr>
<td>b BOT 4503*</td>
<td>Plant Physiology</td>
<td>3</td>
</tr>
<tr>
<td>b BSC 4101*</td>
<td>History of Biology</td>
<td>3</td>
</tr>
<tr>
<td>a BSC 4454*</td>
<td>Research in Animal Physiology</td>
<td>2</td>
</tr>
<tr>
<td>PCB 3063*</td>
<td>Genetics Laboratory</td>
<td>1</td>
</tr>
<tr>
<td>PCB 3233</td>
<td>Immunology</td>
<td>3</td>
</tr>
<tr>
<td>PCB 3042L*</td>
<td>Molecular Cell Biology Laboratory</td>
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<tr>
<td>PCB 3703C</td>
<td>Human Physiology</td>
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<td>PCB 4514*</td>
<td>Genetics II</td>
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<td>3</td>
</tr>
<tr>
<td>a PCB 4723*</td>
<td>Animal Physiology</td>
<td>4</td>
</tr>
<tr>
<td>a PCB 4683L*</td>
<td>Population Bio and Evolution Lab</td>
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</tr>
<tr>
<td>b PCB 6107C*</td>
<td>Adv Cell Biology</td>
<td>4</td>
</tr>
<tr>
<td>b PCB 6108*</td>
<td>Concepts in Plant Cell Biology</td>
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<td>a PCB 6256C*</td>
<td>Adv Develop Biology</td>
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<tr>
<td>PCB 6556*</td>
<td>Conservation Genetics</td>
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<tr>
<td>PCB 5665C*</td>
<td>Human Genetics</td>
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<tr>
<td>a ZOO 3713C*</td>
<td>Comparative Vert Anatomy</td>
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</tr>
<tr>
<td>a ZOO 3733C</td>
<td>Human Anatomy</td>
<td>4</td>
</tr>
<tr>
<td>a ZOO 4603C*</td>
<td>Embryology/Development</td>
<td>5</td>
</tr>
<tr>
<td>a ZOO 4753C</td>
<td>Vertebrate Histology</td>
<td>4</td>
</tr>
</tbody>
</table>

4.2 Environmental (minimum of one lecture course)
- Courses must be selected from the groupings listed below.
- At least 10 hours of the Upper Division Restricted electives must be taken within the UCF Biology Department. Courses offered by the Department of Biology have been designated with an asterisk (*).
- Transferred courses must be at a 3000 level or higher, and be evaluated by a departmental advisor, in order to count as an Upper Division Restricted Elective.
- Courses at the 5000 level are only open to seniors and beginning graduate students.

<table>
<thead>
<tr>
<th>Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>a ZOO 4753C</td>
<td>Vertebrate Histology</td>
<td>4</td>
</tr>
</tbody>
</table>

5. Departmental Exit Requirements
- A minimum GPA of 2.0 in all UCF courses taken in the Common Program Prerequisites, the Biology Core and the Upper Division Restricted Electives.
- To demonstrate Computer Competency students are expected to 1) check and maintain their campus electronic mail account and 2) be capable of locating, viewing, and retrieving class and research information on the World Wide Web.
- Students will be required to take a comprehensive exam in biology during their last semester. The exam will be given in the Fall and Spring semesters. Students who plan to graduate in the Summer must take the exam in the Spring.
- Biology majors should not take any courses required in the major as a transient student at a community college.
- Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements (0-8 hrs)
- Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
- Graduation: none

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

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

Total Semester Hours Required 120 hrs
- Related Programs: Molecular and Microbiology, Science Education, Environmental Engineering
- Related Minors: Biology, Molecular and Microbiology, Environmental Studies
- Transfer Notes:
  - Lower Division 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.
CHM 2045C*: may use CHM 1040 plus CHM 1041 or CHM 2040C plus CHM 2041C
BSC 2010C & Lab: may use PCB 2100, PCB 2101, PCB 2102, PCB 2131, BSC 1040, or BSC 2012
BSC 2011C & Lab: may use ZOO 2010, BOT 2010, BSC 2041, or BOT 1013. However, subsequent Biology courses require either BSC 2011C or both ZOO 2010 and BOT 2010.
STA 2023: may use STA 2122, STA 214C, STA 2023, STA 2024, STA 2321, MAC 2234, MAC 2254, or MAC 3282.

U.S. High School Science Requirements

Chem test: See catalog

Biology

BSC 2010C

Chemistry

CHM 2045C* may use CHM 1040 plus CHM 1041

Physics: Although Common Program Prerequisites permit substituting Organic Chemistry for Physics, both Physics and Organic Chemistry must be taken as part of the Biology degree requirements.

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

**Summer**

Chem test: See catalog

Math test: See catalog

**Freshman Year**

Fall

BSC 2010C Biology I

CHM 2045C Chemistry Fund I

ENG 1101 Composition I

Elective* Check restrictions

Spring

MAC 2311 Calc Anal Geo I

POS 2041* req# 1D-GEF

STA 2023 Stat Methods I

Elective* Check restrictions

**Sophomore Year**

Fall

MAC 2311 Calc Anal Geo I

ENG 1102 Composition II

PHA 4063* req# 1D-GEF

Elective* Check restrictions

Spring

CHM 2210* req# 3-Core

CHM 2211* req# 3-Core

Elective* Check restrictions

**Junior Year**

Fall

PHY 2053C* req# 2-CPF

PCB 3023 Mol Cell Biology

BSC 2041C & Lab

Elective* Check restrictions

Spring

PHY 2053C* req# 2-CPF

PCB 4723* req# 4.1 ResE-a

BSC 2011C Biology II

Elective* Check restrictions

**Senior Year**

Fall

HUM 2210* req# 1B1-GEF

PSY 2012* req# 1D-GEF

REL 2300* req# 1B3-GEF

Elective* Check restrictions

Spring

MUL 2210* req# 1B2-GEF

CHM 2211L* req# 3-Core

MAC 2311 Calc Anal Geo I

Elective* Check restrictions

1. UCF General Education Program

(36+3 hrs)

(Note: Certain courses must be selected in the GEP for this major, bringing the total GEP hours to more than 36.)

A. Communication Foundations

1. Select ENC 1101 and ENC 1102 6 hrs

2. Prefer SPC 1016 3 hrs

B. Cultural and Historical Foundations

1. Select a course in World History 3 hrs

2. Select a course in U.S. History 3 hrs

C. Mathematical Foundations

1. Select MAC 2311 or MAC 2241 4 hrs

2. Select STA 2023 3 hrs

D. Social Foundations

1. Select a course in Social Science 6 hrs

E. Science Foundations

1. Select CHM 2045C or CHM 2040C and CHM 2041C

2. Select PCB 2010C

2. Common Program Prerequisites

(16 hrs)

BSC 2010C* Biology I

BSC 2011C* Biology II

Select one Calculus course

MAC 2311* Calculus with Analytic Geometry I

MAC 2241* Calculus for Life Sciences

STA 2023* Statistical Methods

PCB 2010C* Biology I

PCB 2010C* Biology II

Select one Physics sequence with labs

PHY 2053C College Physics I

PHY 2054C College Physics II

PHY 2048L & LAB Physics Engr. & Sci. I & Lab

PHY 2049L & LAB Physics Engr. & Sci. II & Lab

*See Transfer Notes for possible substitutes

+CHM 2040C plus CHM 2041C can substitute for CHM 2045C

3. Core requirements

(21 hrs)

PCB 3044 Principles of Ecology

PCB 3063 Genetics

CHM 2211 Organic Chemistry I

CHM 2211 & L Organic Chemistry II & lab

PCB 3023 Molecular Cell Biology

PCB 4683 Population Biology & Evolution

4. Restricted Electives (Suggested)

(22 hrs)

- Student must complete at least one course dealing exclusively with animals (marked ‘a’) and one course dealing exclusively with plants (marked ‘b’).
- At least three credit hours from each group must be completed.
- At least 10 hours of the Upper Division Restricted electives must be taken within the UCF Biology Department. Courses offered by the Department of Biology have been designated with an asterisk (*).
- Transferred courses must be at a 3000 level or higher, and be evaluated by a departmental advisor, in order to count as an Upper Division Restricted Elective.
- The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school’s requirements. For complete listing, see Biology B.S. degree program.

4.1 Form/Function

(minimum of one lecture course)

BCH 4053 Biochemistry I

BCH 4054 Biochemistry II

a BSC 4454 Research in Animal Physiology

PCB 3003L* Genetics Laboratory

PCB 3024L Molecular Cell Biology Laboratory

PCB 3233 Immunology

PCB 4514 Genetics II

PCB 5665C* Human Genetics

a PCB 4723 Animal Physiology

a ZOO 3713C Comparative Vertebrate Anatomy

a ZOO 4603C Embryology/Development

Biology B.S. degree program.
UCF Degree Programs

[Text content of the document is transcribed here in a natural language format, preserving the structure and content as accurately as possible.]
### 3. Core Requirements (44 hrs)

**Life Sciences**  
MCB 3020C General Microbiology 3 hrs  
MCB 4414 Organic Chemistry I 3 hrs  
PCB 4229, 3233L Molecular Immunology + Immunology Lab 4 hrs  
PCB 3522, 4524 Molecular Biology I, II 6 hrs  
BSC 3403C Quantitative Biological Methods 4 hrs  
MCB 4721 Lab Methods in Biotechnology 4 hrs  
MCB XXXX Biotechnology/Industrial Seminar 3 hrs  
MCB 4312 Molecular Biotechnology 3 hrs  
PBC 4529 Experimental Molecular Biology 3 hrs  
PBC 4714 Foundations of Biomanagement 4 hrs  

**Chemistry**  
CHM 2046L General Chemistry II Lab 1 hrs  
CHM 2041L Organic Chemistry II Lab 1 hrs  
BCH 4053 Biochemistry I 3 hrs  

**Physic**  
PHY 2053C, 2054C College Physics I, II or 2048, 2049C  
Math, Statistics, Computer  
MAC 2311 or MAC 2323  
*May be substituted by BSC 3403C  
**Or CHM 2040, 2041

### 4. Upper Division Restricted Electives (6-8 hrs)

(Two courses minimum, no more than one may be taken outside the Molecular Biology and Microbiology Department. Each graduate must complete 3 credits of MCB 4912 or MCB 4970 or serve an internship. Only three hours of Honors thesis or undergraduate research will count toward the restrictive elective requirement.)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>BCH 4054</td>
<td>Biochemistry II</td>
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<tr>
<td>BCH 4103L</td>
<td>Biochemical Methods</td>
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<tr>
<td>MCB 3203, 3203L</td>
<td>Pathogenic Microbiology + Lab</td>
<td>4 hrs</td>
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<tr>
<td>PCB 3063</td>
<td>Genetics</td>
<td>3 hrs</td>
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<td>MCB 4204</td>
<td>Cellular Microbiology</td>
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<tr>
<td>MCB 4503C</td>
<td>Virology</td>
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<td>MCB 4603</td>
<td>Environmental Microbiology</td>
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<td>MCB 4912</td>
<td>Undergraduate Research</td>
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<td>MCB 4970H*</td>
<td>Honors Thesis</td>
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<td>MCB 4203</td>
<td>Infectious Processes</td>
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<td>MCB 5225</td>
<td>Molecular Biology of Disease</td>
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<td>MCB 5932</td>
<td>Current Topics in Molecular Biology</td>
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<td>PCB 5238</td>
<td>Immunopathology</td>
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<td>PCB 5239</td>
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<tr>
<td>MCB 3404</td>
<td>Bacterial Genetics and Physiology</td>
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</table>

*Those students who do not qualify for the MCB 4970H may elect MCB 4912, Undergraduate Research, as a substitute course, but a research report must be submitted to instructor after completion of research project.**Those students interested in pursuing graduate or professional education are encouraged 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).

### 5. Departmental Exit Requirements

To be eligible for a major in Biotechnology:
- A student must complete all coursework in the baccalaureate curriculum as shown, and, earn a GPA of at least 2.0 for all coursework in the Core and Restricted Electives
- Independent study, directed research, or similar credit may not be used as a Restricted Elective
- A minimum of 20 hours must be taken at UCF in the department of the major
- Students will be required to pass a comprehensive test during their last semester

### 6. Electives (variable)

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

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

### Graduation:

**none**

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

### Total Semester Hours Required 120 hrs

**Related Programs:** Biology, Chemistry, Medical Lab Science

**Transfer Notes:** Substitutes for Common Program Prerequisites MAC X311 or MAC X233 or MAC X353 or MAC X281 PHY X253C & PHY X054C or PHY X048/X048L & PHY X049/X049L STA X023 or STA X122 or STAX014 or STA X024 or STA X321

Students who begin a two semester sequence course (e.g. General Chemistry) at a community college are strongly encouraged to complete the sequence before transferring. If it will not be possible to complete the sequence at the community college, the student should postpone beginning the course until enrolling at UCF. Students may elect to take Human Anatomy (ZOO 3733C) and Human Physiology (PCB 3703C) at UCF in order to meet the University's requirement that students complete 48 semester hours of upper division (3000/4000 level) credit. Students meeting the Human Anatomy and Physiology I & II requirement at the community college (lower division) level must take an additional 8 hours of upper division coursework at UCF.

### Honors in the Major
- Application and admission through the department and the Burnett Honors College
- Fulfill University requirements for Honors in the Major and maintain a 3.2 UCF GPA; 3.5 in the major; 3.2 cumulative average for graded upper division courses regardless of the institution
- Complete BSC 3404H “Quantitative Biological Methods” with a grade of B or better (4 credits)
- Complete MCB 4970H “Honors Thesis” with a grade of B or better and successfully complete the oral defense of the Honors Thesis (3 credits)

### Tentative Course Schedule for Entering Freshmen:

One of many possible plans of study. Consult a departmental advisor for alternative plans and insert electives to total 120 hours.

#### Freshman Year

<table>
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<td>ENC 1102</td>
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<td>PSY 2012 or SYG 2000</td>
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<td>CHM 2045C</td>
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<td>Cultural/History 3 BSC 2010C 4</td>
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#### Sophomore Year

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<td>EUH 2000 or AMH 2010</td>
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<td>BSC 3403C</td>
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<td>or WOH 2012 or HUM 2211</td>
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Plan your required 9 summer hours into your course of study

#### Junior Year

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<td>PCB 4529</td>
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<td>PCB 4233 + PCB 3233L</td>
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<td>PHY 2054C*</td>
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<td>PCB 4XXX</td>
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<td>MCB 4XXX</td>
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**Students electing to enroll in the PHY2048/2049 sequence must plan to accommodate MAC 2311/2312 as prerequisites.**

#### Senior Year

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<td>12/14 hrs</td>
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<td>BCH 4053</td>
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<td>PCB 4529</td>
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<tr>
<td></td>
<td>MCB 4721</td>
<td>4</td>
<td>PCB 4174</td>
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</table>
UCF Degree Programs

MCB 4312 3 Restricted Elective 3/4
Restricted Elective 2/4 MCB 4414 3

For students who transfer in their junior year from the community college (cc), the revised sequence of courses is provided [it is assumed that GEP and physics will be completed at cc]:

Junior Year
Fall 13/15 hrs Spring 13/14 hrs
MCB 3020C 5 PCB 3522 3
MCB 4XXX 3 BSC 3403C 3
Restricted elective 2/4 BCH 4053 3
Elective 3 restricted elective 3/4
*Students electing to enroll in the PHY2048/2049 sequence must plan to accommodate MAC 2312/2312 as prerequisites.

Senior Year
Fall 13/14 hrs Spring 13 hrs
MCB 4414 3 PCB 4524 3
MCB 4721 4 PCB 4239, 3233L 3,1
MCB 4312 3 PCB 4529 3
Elective 3000 level 3/4 PCB 4174 3

BUSINESS ADMINISTRATION (B.A.B.A.)

Completion program for individuals who have a statewide articulated A.A. from a Florida public community college

(Note: This degree program is only available at selected Regional Campuses (Cocoa, Daytona, MetroWest, Palm Bay, Sanford/Lake Mary, and South Lake Campuses).

College of Business Administration
BA 240, 407-823-2184
http://www.bus.ucf.edu
E-mail: cba@bus.ucf.edu
Clermont campus advising: Selena Forrest, 352-536-2174; Cocoa campus advising: Angela Jones, 321-433-7889; Daytona campus advising: LeeAnn Davis, 386-506-4021; Pamela Von Graff: BA 325, 407-823-2184

The Bachelor of Arts in Business Administration (B.A.B.A.) within the College of Business Administration is a degree that will allow students to tailor their degree program to meet the needs of their chosen profession, through the use of an existing minor and a foreign language. The B.A.B.A. degree is significantly different than the traditional business degree at UCF such as Marketing, Finance, Accounting, etc. The B.A.B.A. degree permits course enrollment across various disciplines, in correspondence with the academic and life goals of each student. As such, B.A.B.A. is an individualized program of study consisting of the common program prerequisites, an approved academic minor, one year of foreign language, and the business core. Students can choose any minor outside the College of Business. The B.A.B.A. degree enables UCF’s undergraduate students to graduate from the University with a specialized degree, having a business emphasis, uniquely designed by the student and his or her advisor.

Admission Requirements
2.0 GPA and completion of General Education and Common Program Prerequisites.

Degree Requirements
■ Students who change degree programs and select this major must adopt the most current catalog.
■ Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each Common Program Prerequisites class.
■ Students wanting a Bachelor of Arts in Business Administration must apply for admission to the major.
■ Any student receiving a B.A.B.A. degree must complete one-half (18) of the 36 upper level business courses for their degree program in the College of Business Administration.
■ Students must earn at least a 2.0 GPA in the College of Business Administration.
■ Students seeking a B.A.B.A. major must earn a grade of “C” (2.0) or better in each course applied toward the major.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
      Select SPC 1600
   B. Cultural and Historical Foundations 9 hrs
      Select MAC 1105 College Algebra 3 hrs
      Select STA 2023 Principles of Statistics 3 hrs
   D. Social Foundations
      Select ECO 2013 Macroeconomics 3 hrs
      ECO 2013 Microeconomics, PSY 2012, SYG 2000 or ANT 2000 3 hrs
   E. Science Foundation

2. Common Program Prerequisites (18-21 hrs)
   Must be completed with a “C” (2.0) or better.
   ■ ACG 2001 Principles of Financial Accounting 3 hrs
   ■ ACG 2001 Principles of Managerial Accounting 3 hrs
   ■ ECO 2013 Macroeconomics 3 hrs
   ■ ECO 2013 Microeconomics 3 hrs
   ■ ECO 3401 Quantitative Business Tools 3 hrs
   ■ CGS 2100CC Computer Fundamentals for Business 3 hrs
   *UCF students who have completed MC 2233 and STA 2001 will be waived from ECO 3401. Students who have not completed both classes with a “C” or better must take ECO 3401.

3. Common Body of Knowledge (36 hrs)
   Required for all students
   First or subsequent semester in the College of Business Administration:
   ■ GEB 3031 Cornerstone (Required in 1st or 2nd semester) 4 hrs
   ■ GEB 3356 Introduction to International Business 4 hrs
   ■ BUL 3130 Legal & Ethical Environments of Business 4 hrs
   ■ ECO 3411 Quantitative Business Tools II 4 hrs
   ■ FIN 3403 Business Finance 4 hrs
   ■ MAN 3025 Management of Organizations 4 hrs
   ■ ISM 3011 Essentials of Management Information Systems 4 hrs
   ■ MAR 3023 Marketing 4 hrs
   Last Semester:
   ■ MAN 4720 Strategic Management 4 hrs

4. Area of Specialization (18 hrs min)
   Existing minor offered at Regional Campus

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: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

6. 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 Armed Forces credits are permitted
   ■ Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hrs (A.A. Transfers)

Transfer Notes
■ Courses taken at community colleges do not substitute for upper division courses.
■ Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
■ 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
A total of 20 UCF undergraduate students are admitted each Fall semester. Note: their major so that they are kept abreast of current articulation activity. The limited access portion of the cardiopulmonary sciences program has a requirement for all students to submit a criminal background check prior to the scheduling of a personal interview. This requirement mirrors clinical affiliates’ need to guarantee patient safety by screening students prior to providing them access to their patient populations.

The practice of respiratory care can be a physically challenging experience. Students must possess a level of visual acuity, auditory perception, and motor coordination necessary to participate fully in this strenuous patient care centered program. Specific questions about the physical requirements for this program and professional duties should be directed to the Program Director.

This department will continue to accept Associate in Arts (AA) and Associate in Science (AS) transfers, but those students admitted with the AS degree will need to complete the UCF General Education requirements before they can be actively considered for admission to this limited access program. Students should seek advisement from the program as soon as they declare Cardiopulmonary Sciences as their major so that they are kept abreast of current articulation activity.

Note: A total of 20 UCF undergraduate students are admitted each Fall semester for the regular Cardiopulmonary Sciences program. Registered Respiratory Therapists (RRT’s) applying for this program’s transfer option will be admitted each semester on a space available basis. These individuals have a separate application process and are not counted as part of the regular Cardiopulmonary Sciences class. See transfer notes below.

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 Biology I
- MCB 2004 Microbiology
- ZOO 3733C Human Anatomy
- PCB 3703C Human Physiology
- CHM 1032L Chemistry for Health Sciences or higher level (with lab)
- PHY 2053C College Physics or higher level (with lab)

*See Transfer Notes

### 3. Core Requirements (72 hrs)

- RET 3025C Intro. to Respiratory Care 4 hrs
- RET 3484C Cardiopulmonary Physiology 4 hrs
- HSC 4500 Pathophysiologic Mechanisms 3 hrs
- HSC 4148 Medical Pharmacology I 2 hrs
- RET 4503 Chest Medicine 3 hrs
- RET 4244 Life Support Systems 3 hrs
- RET 3483C Respiratory Clinical Assessment 3 hrs
- RET 3264C Mechanical Ventilation 3 hrs
- HSC 4149 Medical Pharmacology II 2 hrs
- RET 4414C Pulmonary Function Studies 4 hrs
- RET 3174 Pediatric Respiratory Care 3 hrs
- RET 3874 Clinical Practice I 5 hrs
- RET 4264 Cardiopulmonary Diagnostics I 3 hrs
- RET 4715 Neonatal Medicine 3 hrs
- RET 4034 Problems in Patient Management. 3 hrs
- RET 3875 Clinical Practice II 8 hrs
- RET 4285 Cardiopulmonary Diagnostics II 3 hrs
- RET 4934 Selected Topics in Respiratory Care 2 hrs
- RET 4876 Clinical Practice III 8 hrs
- RET 4536 Cardiopulmonary Rehabilitation 3 hrs

### 4. Upper Division Restricted Electives (3 hrs)

The Cardiopulmonary Sciences program allows students in the traditional limited access program 3 credit hours of 3000-4000 level restricted elective courses with the approval of the program director. Any course or courses used to fulfill the restricted elective requirement must be passed with a grade of “C” (2.0) or better to be counted toward total program credit hours.
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
- 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, Aging Studies Certificate

Transfer Notes:
The UCF Cardiopulmonary Sciences program maintains an active transfer program open only to Registered Respiratory Therapists (RRT) and registry eligible respiratory therapists (new respiratory care graduates from an accredited respiratory care program). This program allows working respiratory care professionals to attend UCF and gain a baccalaureate degree in Cardiopulmonary Sciences. To facilitate this process, transfer-credit by examination is available for Registered Respiratory Therapists for 26 credits of course work. Credit will be awarded by the Cardiopulmonary Sciences faculty when students demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. This may be demonstrated by successful completion of the two part registry 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 1105) 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
Chemistry with Lab (CHM 1031/L or (higher level) 4 hrs
Chemistry I with Lab (CHM 1031/L) or (higher level) 4 hrs
General Microbiology (MCB 2101C) or (MCB 2004C) or (MCB 2005C) or (PHG 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
Fall
ENC 1101 3
HSC 2000 2
MAC 2311 4
MAC 2312 4
PHY 2048 &L 4
PHY 2049 &L 4
CHM 2045C*+ 4
CHM 2211 3
CHM 2212 3
MAC 2211 3
MAC 2213 3
RET 3484c 4
RET 3485c 4
RET 4141C 4
RET 3264C 3
RET 3874 5
Summer
RET 3875 8
RET 4715 3
RET 4034 3
Senior Year
Fall
17
RET 4284 3
RET 4285 3
RET 3875 8
RET 4876 8
RET 4715 3
RET 4834 2
RET 4536 3
Minor
none

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

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

CHEMISTRY (B.S.)
College of Sciences
Department of Chemistry, CH 117, 407-823-2246
http://www.cos.ucf.edu/chemistry
E-mail: chemstaf@mail.ucf.edu
Contact: Cherie Geiger

Admission Requirements none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Co-op or internship credit cannot be used in the major
- Students should consult with a departmental advisor
- Departmental 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 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36+3 hrs)
(Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36)

A. Communication Foundations
1. Select ENC 1101 and ENC 1102 6 hrs
2. Prefer SPC 1016 3 hrs

B. Cultural and Historical Foundations 9 hrs

C. Mathematical Foundations
1. Select MAC 2311 4 hrs
2. Prefer STA 2323 3 hrs

D. Social Foundations 6 hrs

E. Science Foundations
1. Select PHY 2048 & L (PR:MAC 2311) 4 hrs
2. Select BSC 2010C 4 hrs

2. Common Program Prerequisites (22 hrs)

CHM 2045C*+ Chem Fund I 4 hrs
CHM 2211 Organic Chem. I 3 hrs
CHM 2212 Organic Chem. II 3 hrs
MAC 2211 Calculus w/ Anal Geometry I 4 hrs
MAC 2212 Calculus w/ Anal Geometry II 4 hrs
PHY 2048 & L* Physics Engr. & Sci. I & Lab 4 hrs
PHY 2049 & L* Physics Engr. & Sci. II & Lab 4 hrs

*See Transfer Notes for possible substitutes
+CHM 2040C plus CHM 2041C can substitute for CHM 2045C

3. Core requirements (39 hrs)

MAC 2211 Organic Lab Techniques I 2 hrs
MAC 2212 Organic Lab Techniques II 2 hrs
MAC 2312L Analytical Chemistry & Lab 4 hrs
Complete the General Education Program, the Gordon Rule, the A maximum of 45 hours of extension, correspondence, CLEP, and a minimum of 30 of the last 36 hours of coursework must be completed in residence at UCF. A 2.0 UCF GPA is required.

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.

- 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

Total Semester Hours Required: 120 hrs

Related Programs: Forensic Science, Molecular and, Microbiology, and Science Education

Related Minors: Chemistry, Molecular and Microbiology

Transfer Notes:
- Lower Division 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 or CHM 2040C plus CHM 2041C
- PHY 2048 & Lab: may use PHY 2053C. However, PHY 2048 & Lab is required and will still have to be taken.
- PHY 2049* & Lab: may use PHY 2054C. However, PHY 2049 & Lab is required and will still have to be taken.
- Physics: CPP requirements may permit substitution by Organic Chemistry (CHM 2210 & 2211). However, both Physics courses and Organic Chemistry classes are required for graduation.

Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
- Chem test See catalog 0
- Math test See catalog 0

Freshman Year

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<td>ENC 1101 Composition I 3</td>
<td>SYG 2000* req# 1D2-GEP 3</td>
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<td>MAC 2311 Calc Anal Geo I 4</td>
<td>CHM 2046 Chemistry Fund II 3</td>
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<td>CHM 2045C Chemistry Fund I 4</td>
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<td>MAC 2312 Calc Anal Geo II 4</td>
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Sophomore Year

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<td>PHY 2048L Phy L Eng Sci I 1</td>
<td>CHM 2211 Organic Chm II 3</td>
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<td>STA 1060C Stat Using Excel 3</td>
<td>PHY 2049 Phy for Eng Sci II 3</td>
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<td>CHM 2210 Organic Chm I 3</td>
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<td>CHM 2211L Organic L Tech II 2</td>
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Junior Year

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<td>POS 2041* req# 1D1-GEP 3</td>
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<td>BCH 4053 Biochemistry I 3</td>
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<td>CHM 3120 Analy Chemistry 5</td>
<td>CHM 4130 Adv Analy L Tech 4</td>
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<td>CHM 3212L Organlc L Tech II 2</td>
<td>CHM 4610 Inorg Chemistry 3</td>
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<td>CHM 3410 Physical Chm I 4</td>
<td>BCH 4054* req# 4-ReSel 3</td>
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Senior Year

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<tr>
<td>HUM 2210* req# 1B1-GEP 3</td>
<td>MUL 2010* req# 1B2-GEP 3</td>
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<td>CHM 4610L Inorg Chemistry L 2</td>
<td>SPC 1016 Tech Presentations 3</td>
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<td>CHM 4912 Research 3</td>
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<td>CHM 4220* req# 4-ReSel 3</td>
<td>PCB 3063* req# 5-DiEl 3</td>
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CINEMA STUDIES TRACK in FILM
See Film - Cinema Studies Track
Prerequisites to UCF from within the Florida State University/Community College

A. through E. below to minimize excess hours. Students transferring to UCF should closely study the requirements of the UCF General Education Program (GEP) is described in this catalog. Engineering students should seek academic advisement before registering for classes. Each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students

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

A. Communication Foundations
   1. ENC 1101 & ENC 1102
   2. Prefer SPC 1016

B. Cultural and Historical Foundations
   1. Select two courses from Historical Foundations
   2. ARH 2050, ARH 2051, MUL 2010, THE 2000, REL 2300, PHI 2010, LIT 2110, or LIT 2120

C. Mathematical Foundations
   1. Select MAC 2311 (PR: MAC 1144)
   2. Select STA 3032 (PR: MAC 2312)

D. Social Foundations
   1. Prefer ECO 2013 or ECO 2023.

E. Science Foundations
   1. Select PHY 2048/48L (PR: MAC 2311)
   2. Prefer GEO 1200

2. Common Program Prerequisites (CPP’s)

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHM 2045C45L or CHS 1440 Chemistry Fundamentals I with Lab Fund of Chemistry for Engineers 4 hrs
MAC 2311 Calculus with Analytic Geometry I 4 hrs
MAC 2312 Calculus with Analytic Geometry II 4 hrs
MAC 2313 Calculus with Analytic Geometry III 4 hrs
MAP 2302 Differential Equations 3 hrs
PHY 2048/48L Physics for Engineers & Scientists I GEP
PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
ENC 1101 Composition I GEP
ENC 1102 Composition II GEP

3. Courses Required for the Major

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

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1007C Engineering Concepts & Methods 1 hr
CHM 2045C Chemistry Fundamentals I GEP
CHM 2046 Chemistry Fundamentals II 3 hrs
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics 3 hrs
EGN 3331 Mechanics of Materials 3 hrs
EGN 3343 Thermodynamics 3 hrs
EGN 3365 Structure & Properties of Materials 3 hrs

4. Approved Technical Electives

Technical electives are available in the BSCE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements

A. Approved CE Project Design Course I 3 hrs
B. Approved CE Project Design Course II 3 hrs

Civil engineering students must take the Fundamentals Exam during their Senior year.

Earn a minimum graduating GPA of 2.25 in the major courses from item 3. above, the technical electives in item 4. above, and the approved CE project design courses.

6. Foreign Language Requirements

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

Graduation: none

7. University Minimum Graduation Requirements

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

Total Semester Hours Required: 128 hrs

Related Programs: Construction Engineering, Environmental Engineering
Related Minors: Mathematics, Engineering Leadership.

Transfer Notes:
Courses taken from Community Colleges do not substitute for Upper Division Courses unless part of an articulated pre-engineering degree program.
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

<table>
<thead>
<tr>
<th>FIRST YEAR</th>
<th></th>
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</thead>
<tbody>
<tr>
<td>Fall</td>
<td>Spring</td>
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<tr>
<td>14 hrs¹</td>
<td>14 hrs¹</td>
</tr>
</tbody>
</table>

¹ ENC 1101 English Comp I 3
² ENC 1102 English Comp II 3
³ MAC 2311 Calc w/Analy Geo I 4
⁴ MAC 2312 Calc w/Analy Geo II 4
⁵ MAP2302 Probability & Statistics for Engineers GEP
⁶ PHY 2048 Phys Engr I lab 4
⁷ MAC 3613 Eng Econ Anal 3
⁸ EGN 1006C Intro To Eng Prof 1

EGN 3373 Principles of Electrical Engineering 3 hrs
EGN 3613 Engineering Economic Analysis 2 hrs
CCE 4003 Intro to the Construction Industry 3 hrs
ENV 3001 Intro to Environmental Engineering 3 hrs
STA 3032 Probability & Statistics for Engineers GEP
CEG 4011C Geotechnical Engineering I 4 hrs
CES 4100C Structural Analysis I 4 hrs
CEG 4605 Steel Structures 3 hrs
CWR 3201 Engineering Fluid Mechanics 3 hrs
CWR 4101C Hydrology 3 hrs
CWR 4203C Hydraulics 3 hrs
ENV 4561 Environmental Engrng-Process Design 4 hrs
SUR 2101C Surveying 3 hrs
TTE 4004 Transportation Engineering 4 hrs
SECOND YEAR

Fall
14 hrs Spring 16 hrs
*MAC 2313 Calc w/Analy Geo III 4 *MAP 2302 Diff Equations 3
*CHM 2045LC Chem Funds I 4 *CHM 2046 Chemistry Funds II 3
*HUM/AMH/EUH - I 3 *PHY 2049/L Phys Eng I w/lab 4
EGN 3310 Engr Anal - Statics 3 *GEO/GLY/BSC 3
EGN 3321 Engr Anal-Dynamic 3

Summer 9 hrs
STA 3032 Prob/Stats for Engrs 3
EGN 3331 Mech of Materials 3
ENV 3001 Intro to Environ Eng 3

THIRD YEAR

Fall 16 hrs Spring 16 hrs
CWR 3201 Eng Fluid Mechanics 3 CWR 4101 Chemical Hydrology 3
CCE 4003 Intro to Const Indus 3 CEF 4203C Hydraulics 3
*SPC 1016 Tech Presentations 3 EGN 3373 Print Elec Eng 3
CES 4100C Structural Analysis I 4 *HUM/AMH/EUH - II 3
*SUR 2101C Surveying 3 TTE 4004 Transportation Eng 4

FOURTH YEAR

Fall 14 hrs Spring 15 hrs
ENV 4561 Env Engr-Proc Design 4 Approved Project Design Course 3
CEG 4011C Geotechnical Engr 4 CES 4702 Reinforced Concrete 3
or Technical Elective 3 CES 4703 or 4704 Reinforced Concrete Structures 3
Approved Project Design Course 3 EGN 3343 Thermodynamics 3
*Technical Elective 3 *Cultural 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.
2. Either CEG 4605 Steel Structures or CEG 4702 Reinforced Concrete Structures is required for all students.
3. EGN 1006C and EGN 1007C are required courses for incoming freshmen only.

BS to PhD Program

The Civil Engineering program offers the opportunity for exceptionally well qualified undergraduates to enter directly into the PhD program after completion of an appropriate BS degree. This option allows outstanding undergraduates to begin planning a research program with a specific faculty advisor even before finishing the BS, and may allow completion of the PhD in a shorter time period than by taking a separate Master’s followed by the PhD.

COMMUNICATION SCIENCES AND DISORDERS (B.A., B.S.)

College of Health and Public Affairs, HPA2 101
http://www.cooha.ucf.edu/comdis/
Chair: R. Jane Lieberman, 407-823-4798;
Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798;
E-mail: jschwart@mail.ucf.edu

Admission Requirements

none

Degree Requirements

- Students who change degree programs and select this major must adopt the 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 public 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, restricted elective, and B.A./B.S. elective.
- Communication Sciences and Disorders is an unrestricted major, however, negative criminal background checks may result in the inability to complete coursework in this major.
- Students will complete background checks with the FDLE/FBI and Certificed Background.com as a prerequisite to Clinical Methods (SPA 4056C). Results must be received before registering for this course.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- B. Cultural Historical Foundations 9 hrs
- C. Mathematical Foundations 6 hrs
- Prefer MGF 1106 Finite Math

2. Social Foundations 6 hrs

- Select PSY 2012 General Psychology
- Select one of the listed choices (ECO 2013, ECO 2023), or (POS 2041)

3. Science Foundations 6 hrs

- Prefer BSC 1055 Gen Bio
- Select one biological and one physical science

4. Common Program Prerequisites

none

5. Core Requirements (60 hrs)

- DEP 2004 Developmental Psychology 3 hrs
- SPA 3471 Communication Disorders in Literature and Media 3 hrs
- SPA 3101L Physiological Bases of Speech and Hearing 3 hrs
- SPA 3112 Basic Phonetics 3 hrs
- SPA 3112L Basic Phonetics Lab 1 hr
- LIN 3716 Language Development: Birth Through 8 Years 3 hrs
- SPA 3011 Speech Science I: Speech Production 3 hrs
- SPA 3011L Speech Production Lab 1 hr
- LIN 3717 Language Development: 9-18 Years 3 hrs
- SPA 3104 Neural Bases of Communication 3 hrs
- SPA 3123 Speech Science II: Speech Perception 3 hrs
- SPA 3123L Speech Perception Lab 1 hr
- SPA 4476 Speech Disorders Across the Lifespan 3 hrs
- SPA 4032 Audiology 3 hrs
- SPA 4478 Multicultural Aspects: Communication and Differences 3 hrs
- LIN 4711 Language Analysis 3 hrs
- LIN 4711L Language Analysis Lab 1 hr
- SPA 4400 Language Disorders Across the Lifespan 3 hrs
- SPA 4321 Audioligc Rehabilitation 3 hrs
- EAB 3703 Principles of Behavior Modification or 3 hrs
- EEX 4601 Introduction to Behavior Management or 3 hrs
- ECD 4604 Guidance of Young Children or 3 hrs
- EDF 3330 Learning Environments and Guidance for Young Children or 3 hrs
- SPA 3472 Guidance of Young Children w/ Communication Disorders 3 hrs
- SPA 4056C Clinical Methods in Communication Disorders 3 hrs
- SPA 4501L Undergraduate Clinical Practicum or 3 hrs
- SPA 4948 Community Internship 3 hrs

- Note: Students must complete criminal background checks with the FDLE/FBI and certified background.com as a prerequisite to SPA 4056C. Results must be received before course registration.

4. Statistics Requirement (6 hrs)

Students have two options for completing this requirement:

Option 1:
- STA 2023 Statistical Methods I GEP and 3 hrs
- STA 4163 Statistical Methods II or 3 hrs

Option 2:
- STA2014C Principles of Statistics (GEP) or 3 hrs
- STA 2023 Statistical Methods I and 3 hrs
- SPA4803 Res. Methods in Comm. Sciences and Disorders 3 hrs

5. Upper Division Restricted Electives (6 hrs)

An addition six credit hours of upper division course work in Communication Sciences and Disorders selected in consultation with the academic advisor.

6. Electives (6 hrs min)

B.A./B.S. Option.

- Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year in college.
- Students pursuing the B.S. degree must complete two upper division health science courses (six credit hours) approved by the Department.

7. Foreign Language Requirements

Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation. American Sign Language (ASL) can be used to fulfill the foreign language admission requirement.

Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year. ASL I, II,
8. Departmental Exit Requirements
Students must achieve a minimum grade of "C-" (1.75) in all required courses, restricted electives, and B.A./B.S. electives in the Department.

Students must also earn an overall minimum of 2.0 GPA in the courses used to satisfy the major.

9. University Minimum Exit Requirements (120 hrs)
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hrs

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

Related Minors: American Sign Language and Deaf Studies, Exceptional Education, Early Childhood 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 2014C or STA 2023 to fulfill the first part of the statistics requirement

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall 16 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 ARH 2051, or MUL 2010, or THE 2000, or REL 2300, or PHI 2010, or LIT 2110, or LIT 2120, or FIL 1000 3
 Elective 3

Sophomore Year

Fall 15/16 hrs  Spring 16/17 hrs
 SPC 1600 3  SPA 3112 and SPA 3112L 4
 EUH 2001 or HUM 2230 3  Restrict. Elective 3
 ARH 2050 or MUL 2010 4  EAB 3703, or EDF 3303 3
 MGF 1106 or MAC 1105 3  or EEC 4601, or EEC 4604, or SPA 3472 3
 Elective 3  STA 2014C or STA 2023 3
 SPA 3471 3  Elective 3

Junior Year

Fall 13 hrs  Spring 16 hrs
 LIN 3716 3  SPA 3101 and SPA 3101L 3
 or Health Science (B.S.) elective. 4
 SPA 3101 4  Foreign Lang. I (B.A.) 3/4
 or Foreign Lang. II (B.A.) 3/4
 SPA 3104 3  Health Science (B.S.) elective 3/4

Senior Year

Fall 15 hrs  Spring 15 hrs
 SPA 4032 3  SPA 4321 3
 SPA 4400 3  SPA 4501L* or SPA 4948 3
 LIN 4711 and 4711L 4  Restricted Elective 3
 SPA 4056C 5  STA 4163 or SPA 4803 3
 SPA 4478 3

*Students must apply and be selected to enroll in SPA 4501L.

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 Communication Sciences and 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 Communication Sciences and Disorders and five years to complete the degree.

COMPUTER ENGINEERING (B.S. C.P.E.)
College of Engineering and Computer Science
School of Electrical Engineering & Computer Science
Harris Corp Engineering Ctr., Rm 246, 407-823-2787; Fax: 407-823-5419
http://www.eecs.ucf.edu
Contact: Dr. Samuel Richie, E-mail: richie@mail.ucf.edu; Charlese Hilton-Brown, E-mail: Chilton@mail.ucf.edu

Admission Requirements:  none

Degree Requirements
Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

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

A. Communication Foundations 9 hrs
1. ENC 1101 & ENC 1102
2. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs
1. Select two courses from Historical Foundations
   2. ARH 2050, ARH 2051, MUL 2010, THE 2000, REL 2300, PHI 2010, LIT 2110, or LIT 2120

C. Mathematical Foundations 7 hrs
1. Select MAC 2311 (PR: MAC 1144)
2. Select STA 3032 (PR: MAC 2312)

D. Social Foundations 6 hrs
1. Prefer ECO 2013 or ECO 2023
2. ANT 2000, PSY 2012, or SYG 2000

E. Science Foundations 7 hrs
1. Select PHY 2048/2048L (PR: MAC 2311)
2. ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310

2. Common Program Prerequisites (CPP’s) (19 hrs)
These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. To enroll in ECE major courses, a 2.0 (C or better) in each course is required for those courses in section 2 marked with an asterisk (*). Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

MAC 2311* Calculus with Analytic Geometry I 4 hrs
MAC 2312* Calculus with Analytic Geometry II 4 hrs
MAC 2313* Calculus with Analytic Geometry III 4 hrs
MAP 2302* Differential Equations 3 hrs
PHY 2048/48L* Physics for Engineers & Scientists I 4 hrs
PHY 2049/49L* Physics for Engineers & Scientists II 4 hrs

ECC 1440 Fundamentals of Chemistry for Eng 4 hrs
MAC 2311* Calculus with Analytic Geometry I 4 hrs
MAC 2312* Calculus with Analytic Geometry II 4 hrs
MAC 2313* Calculus with Analytic Geometry III 4 hrs
MAP 2302* Differential Equations 3 hrs
PHY 2048/48L* Physics for Engineers & Scientists I 4 hrs
PHY 2049/49L* Physics for Engineers & Scientists II 4 hrs

ENG 1101 Composition I 3 hrs
ENG 1102 Composition II 3 hrs

3. Courses Required for the Engineering Core (14 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the courses required for the major in 4.
below, technical elective courses listed in 5. below and with the sen-
ior design courses listed in 6. below. Independent study courses
generally do not satisfy major requirements.

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 3 hrs
or EGN 3358 Thermo-Fluids-Heat Transfer

4. Courses Required for the Major (45 hrs)
   EEL 3004 Electrical Networks 3 hrs
   EEL 3123C Networks and Systems 4 hrs
   EEL 3306 Semiconductor Devices I 3 hrs
   EEL 3307C Electronics I 4 hrs
   EEL 3342C Intro to Digital Circuits & Systems 3 hrs
   EEL 3657 Linear Control Systems 3 hrs
   EEL 3801 Intro to Computer Engineering 3 hrs
   EEL 4767C Computer System Design I 4 hrs
   EEL 4781 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

5. Approved Technical Electives (6 hrs)
   Technical electives are available in the BScPE program to address
   specific student interests in a variety of technical areas such as
   Software Engineering. Students should consult with their assigned
   academic advisor for a list of the approved technical electives and
   the terms when specific courses of this type are to be offered.

6. Departmental Graduation Requirements (6 hrs)
   • EEL 4914 Senior Design I 3 hrs
   • EEL 4915L Senior Design II 3 hrs
   • CEGS encourages all engineering students to take the
     Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or
   one year of one foreign language in college (or equivalent profi-
   ciency exam) prior to graduation.

Graduation: none

8. University Minimum Graduation Requirements
   • A 2.0 UCF GPA.
   • 60 semester hours earned after any CLEP award.
   • 48 semester hours of upper division credit completed.
   • 30 of the last 36 hours of course work must be completed in res-
     idency 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 applica-
     ble).

Total Semester Hours Required: 128 hrs

Related Programs: Computer Science, Electrical Engineering, 
Electrical Engineering Technology (Computer Systems 
Concentration).

Related Minors: Information Technology, Computer Science, 
Intelligent Robotic Systems, Engineering Leadership.

Transfer Notes:
• Courses taken from Community Colleges do not substitute for 
  Upper Division Courses unless part of an articulated pre-engi-
  neering degree program.
• Courses transferred must be formally evaluated for equivalency 
  credit. The student must provide all supporting information with 
  his/her petition for this evaluation.

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

Computer Engineering - 128 semester hours required

FIRST YEAR
Fall 14 hrs Summer 12 hrs
- Historical Foundations Ia 3  
- EGN 1006C Intro to Eng 1  
- EGN 1007C Eng Conc & Meth 3  
- EGN 3321 Eng Analysis - Dynamics 3  
- or EGN 3358 Thermo-Fluids-Heat Transfer  

EGN 1006C Intro to Eng

SECOND YEAR
Fall 17 hrs Summer 15 hrs
- MAP 2302 Diff Equations 3  
- PHY 2048L Phys for Eng/Sci II 4  
- or EGN 3358 Ther-Flds-Ht Tran 
- EGN 3310 Eng Anal-Statics 3  
- EGN 3420 Eng Analysis2 3  
- EEL 3342C Intro Dig Corp.Sys 3  

THIRD YEAR
Fall 14 hrs Spring 14 hrs
- EEL 3306 Semicond/I Dev I 3  
- EEL 4851C Intro to Digital Circuits & Systems 3  
- EEL 3321 Networks and Systems 3  
- EEL 4881C Engineering Data Structures 4  

FOURTH YEAR
Fall 14 hrs Spring 12 hrs
- EEL 4884C Engr S/W Dsgn 4  
- EEL 4768C Cmp Sys Dsgn II 4  
- EEL 4767C Computer System Design I 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 5. Approved Technical Electives

Accelerated BS/MS Degree Program
The Computer Engineering program offers the Accelerated BS/MS 
Program to students of high academic standing. This program allows 
up to twelve hours to be shared between the BS and MS degrees. 
See your department or the Accelerated program section in the back
of this catalog for more information.

COMPUTER SCIENCE (B.S.)
College of Engineering and Computer Science
School of Electrical Engineering & Computer Science
Harris Corp Engineering Ctr., Rm 246, 407-823-2787; Fax: 407-823-5419
http://www.eecs.ucf.edu

Foundation Examination
Prior to taking courses beyond basic core requirements, students 
must pass a foundation exam (COT 3960) which covers problem 
solving techniques, algorithms, abstraction, proofs, and programming 
language skills. Tests will be administered each semester. Refer to 
the computer science website for more information about the founda-

Degree Requirements
• Students must earn at least a 2.0 in each course in 2-5
• Students are required to consult with a departmental advisor and 
  file a plan of study after passing the foundation exam
• Students must meet a Residency Requirement of at least 24 
  semester hours of regularly scheduled 3000-5000 level courses

UCF Degree Programs
UCF Degree Programs

taken from Computer Science at UCF
- 18 of the 24 Residency hours must be at the 4000-5000 level

1. UCF General Education Program (36+3 hrs)
   A. Communication Foundations 9 hrs
      1. ENC 1101, & ENC 1102
   B. Cultural and Historical Foundations 9 hrs
      1. Select MAC 2311 (PR: MAC 1114)
      2. Select STA 2023
   C. Mathematical Foundations 7 hrs
      1. Select PHY 2048 & L (PR:MAC 2311)
      2. Prefer BSC 2010C & L
   D. Social Foundations 6 hrs
   E. Science Foundations 8 hrs

2. Common Program Prerequisites (15 hrs)
   COP 3223 C Programming 3 hrs
   MAC 2311 Calculus with Analytic Geom I GEP
   MAC 2312 Calculus with Analytic Geom II GEP
   PHY 2048 & L Physics for Engr. & Sci. I & Lab GEP
   PHY 2049 & L Physics for Engr. & Sci. II & Lab 4 hrs

3. Basic Core requirements (25 hrs)
   COP 3330 Intro to OO Programming 3 hrs
   COP 3502C Computer Science I 3 hrs
   COP 3503C Computer Science II 4 hrs
   STA 2023 Statistical Methods I GEP
   ENC 3241 Technical Report Writing 3 hrs
   CDA 3103 Computer Organization 3 hrs
   COT 3100C Intro to Discrete Structures 3 hrs
   PHI 3026 Ethics in Science and Technology 3 hrs
   COP 3402 Systems Software 3 hrs
   COP 3960 Foundat. Exam (PR:COT 3100C & COP 3502C) 0 hrs

4. Advanced Core (17 hrs)
   Students must maintain at least a 2.5 GPA in the following courses. Only the highest grade is used in the calculation.
   COP 4331C Processes for OS Development 4 hrs
   CDA 4150C Comp Architecture 4 hrs
   COP 4210 Discrete Comp Structures 3 hrs
   COP 4020 Programming Languages I 3 hrs
   COP 4600 Operating Systems 3 hrs

5. Restricted Electives (18 hrs)
   - 4000-5000 level Computer Science courses 12 hrs
     Must include COP 4810 (Topics in Computer Science). Must be offered by Computer Science at UCF. At most 3 hours of independent study allowed. No internship or cooperative education credits are approved. Approved IT courses offered by Computer Science may also be used toward this requirement (3 credits).
   - 4000-5000 level mathematics or statistics courses from: STA, MAP, MAA, MAD, MAS prefixes and MAC 2313, MAP 2302, MAS 3105, and MAS 3106. No independent study hours, internship, or cooperative education hours are allowed.

6. School Exit Requirements
   - Complete an exit survey
   - Computer Competency met by completion of major

7. 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.

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

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded

- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Computer Engineering, Information Technology, Management Information Systems

Related Minors and Certificates: Information Technology, Computer Science, Intelligent Robot Systems, Secure Computing and Networks, Interdisciplinary Informatics Technology

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

FIRST YEAR
Fall 12 hrs
- ENC 1101 English Comp I 3
- MAC 2311 Calc with Analy Geo I 4
- COP 3330 Intro to COP/Java 3

Spring 13 hrs
- ENC 1102 English Comp II 3
- COP 3502C Comp Science I 3
- COT 3960 Foundation Exam 0

SECOND YEAR
Fall 14 hrs
- COP 3402 Systems Software 3
- COP 3503C Comp Science II 4
- PHY 2048 Physics for Sci w/lab 4
- Cultural Foundations 3
- PHI 3026 Ethics in Science and Technology 3

Spring 13 hrs
- STA 2023 Statistical Methods 3
- COP 3503C Comp Science II 4
- COT 4210 Discrete Structures II 3
- Social Foundations 3

THIRD YEAR
Fall 13 hrs
- COP 4210 Discrete Structures II 3
- COP 4020 Programming Languages I 3
- COP 4600 Operating Systems 3
- Social Foundations 3

Spring 13 hrs
- COP 4020 Programming Languages I 3
- COP 4600 Operating Systems 3
- Social Foundations 3

FOURTH YEAR
Fall 12 hrs
- COP 4020 Programming Languages I 3
- COP 4600 Operating Systems 3

Spring 12 hrs
- COP 4600 Operating Systems 3

Accelerated BS/MS Degree Program
The Computer Science program offers the Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

CONSTRUCTION ENGINEERING (B.S.Con.E.)
College of Engineering and Computer Science
Civil & Environmental Engineering Department (CEE)
ENGR 211, 407-823 2841; Fax: 407-823-3315
http://www.cee.ucf.edu
Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl, E-mail: cpohl@mail.ucf.edu; Construction Program Director: Dr. Amr A. Oloufa, Ph.D., P.E., E-mail: aoloufa@mail.ucf.edu

Admission Requirements: none
Degree Requirements
Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.

1. UCF General Education Program for Engineering Students

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

   A. Communication Foundations
      9 hrs
      1. ENC 1101 & ENC 1102
      2. Prefer SPC 1016

   B. Cultural and Historical Foundations
      9 hrs
      1. Select two courses from Historical Foundations
      2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1000, REL 2300, PHI 2010, LIT 2110, or LIT 2120

   C. Mathematical Foundations
      7 hrs
      1. Select MAC 2311 (PR: MAC 1141). 2. Select STA 3024 (PR: MAC 2312)

   D. Social Foundations
      6 hrs
      1. Prefer ECO 2013 or ECO 2023.
      2. ANT 2000, PSY 2012, or SYG 2001

   E. Science Foundations
      7 hrs
      1. Select PHY 2048/49L (PR: MAC 2311)
      2. Prefer GEO 1200

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

   These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/49L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

   CHM 2045C/45L 4 hrs
   or CHS 1440 4 hrs
   MAC 2311 3 hrs
   MAC 2312 3 hrs
   MAC 2313 3 hrs
   MAP 2302 3 hrs
   PHY 2048/48L 4 hrs
   ENC 1101 3 hrs
   ENC 1102 3 hrs
   ENC 1108 (PR: ENC 1101) 3 hrs
   PHY 2049/49L 4 hrs
   ENFIN 2000 1 hr

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.

   EGN 1006C 1 hr
   EGN 1007C 1 hr
   CHM 2045C 1 hr
   CHM 2046C 1 hr
   CHM 2046 3 hrs
   EGN 3310 3 hrs
   EGN 3311 3 hrs
   EGN 3313 3 hrs
   EGN 3613 2 hrs
   ENV 3001 3 hrs
   STA 3023 3 hrs
   CCE 4813 3 hrs
   CCE 4402 3 hrs
   EGN 3365 3 hrs
   CEE 4004 3 hrs
   CEE 4004 3 hrs
   CCE 4003 3 hrs
   CEG 4011C 3 hrs
   CES 4100C 3 hrs
   CES 4700 3 hrs
   or CES 4605 3 hrs
   CWR 3201 3 hrs

   4. Approved Engineering Science Electives (3 hrs)

   Engineering Science electives are available in the BSConE program to address specific student interests in a variety of technical areas. Students are encouraged to take EGN 3343 (Thermodynamics), EGN 3373 (Principles of Elect Engr), CWR 4101C (Hydrology), or CWR 4203C (Hydraulics) 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)

   - CCE 4810C Construction Engr. Design Project 3 hrs
   - CEG 4801C Geotechnical Engr. Design 3 hrs
   - Construction engineering students must take the Fundamentals Exam during their Senior year.
   - Earn a graduating GPA of 2.25 in the major courses from item 3. above, the technical electives in item 4. above, and the approved ConE 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 residence at UCF.
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
   - Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable).

   Total Semester Hours Required: 128 hrs

   Related Programs: Civil Engineering, Environmental Engineering.
   Related Minors: Mathematics, Engineering Leadership

   Transfer Notes:

   - Courses taken from Community Colleges do not substitute for Upper Division Courses unless part of an articulated pre-engineering degree program.
   - 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.

   Construction Engineering – 128 semester hours required

   FIRST YEAR

   Fall 16 hrs\(^1\)
   *ENC 1101 English Comp I 3 hrs
   *MAC 2311 Calc w/Analy Geo I 4 hrs
   *MAC 2313 Calc w/Analy Geo II 4 hrs
   *ANT/PSY/SYG 3 hrs
   *ECO 2013 Macroeconomics 3 hrs
   *EGN 1006C Intro To Eng Prof 1 hr
   CWR 3201 Engineering Fluid Mechanics 3 hrs

   Spring 15 hrs\(^1\)
   *ENC 1102 English Comp II 3 hrs
   *MAC 2312 Calc w/Analy Geo II 4 hrs
   *MAC 2312 Calc w/Analy Geo III 4 hrs
   *PHY 2048L Phys Engr I wlab 4 hrs
   *ECO 2023 Microeconomics 3 hrs
   *EGN 1007C Eng Con & Meth 1 hr

   SECOND YEAR

   Fall 16 hrs\(^1\)
   *MAC 2311 Calc w/Analy Geo I 4 hrs
   *MAC 2312 Calc w/Analy Geo II 4 hrs
   *MAC 2312 Calc w/Analy Geo III 4 hrs
   *HUM/AMHEUH - I 3 hrs
   *HUM/AMHEUH - I 3 hrs
   *PHY 2049L/Phys Engr I wlab 4 hrs

   Spring 16 hrs\(^1\)
   *CWR 3201 Engineering Fluid Mechanics 3 hrs
   *CWR 3201 Engineering Fluid Mechanics 3 hrs
   *CWR 3201 Engineering Fluid Mechanics 3 hrs
   *CWR 3201 Engineering Fluid Mechanics 3 hrs
   *CWR 3201 Engineering Fluid Mechanics 3 hrs

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* UCF Degree Programs
* ACG 2071 Managerial Accounting 3 hrs
* SUR 2101C Surveying 3 hrs
* TTE 4004 Transportation Engineering 4 hrs

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UCF Degree Programs

EGN 3310 Engr Anal - Statics 3  *HUM/MAH/EUH - II 3
EGN 3613 Eng Econ Anal 2  EGN 3331 Mech of Materials 3
Summer 9 hrs¹
*SPC 1016 Tech Presentations 3
STA 3032 Prob/Stats Engineers 3
ENV 3001 Intro to Environ Eng 3

THIRD YEAR
Fall 16 hrs¹ EGN 3321 Engr Anal-Dynamics 3
CCE 4003 Intro Constr. Industry 3
CES 4100C Structural Analysis I 4
*SUR 2101C Surveying 3
EGN 3365 Struc & Prop of Mat 3

Spring 15 hrs¹ Engineering Science Elective 3
CES 4702 Reinforced Concrete 3
CCE 4004 Constr Methods 4
*Culture/Historical Elective 3
CWR 3201 Eng Fluid Mechanics 3

FORTH YEAR
Fall 15 hrs TTE 4004 Transportation Eng 4
CCE 4034 Constr Est & Sched 3
CEG 4011C Geotechnical Engr 2
CCE 4813 Mech & Elec Bldgs 4

Spring 13 hrs CES 4100C Structural Analysis I 4
CCE 4402 Constr Equip & Prod 3
CEG 4801C Geotech Eng Design 3
ACG 2071 Prin Mgrl Accounting 3

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Engineering Science Elective may be satisfied by taking either EGN 3343 or EGN 3373, other courses must be approved by Program Director.
3. Either CES 4605 Steel Structures or CES 4702 Reinforced Concrete Structures is required for all students.
4. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.

BS to PhD Program

The Construction Engineering program offers the opportunity for exceptionally well qualified undergraduates to enter directly into the PhD program after completion of an appropriate BS degree. This option allows outstanding undergraduates to begin planning a PhD program after completion of an appropriate BS degree. This option allows exceptionally well qualified undergraduates to enter directly into the PhD program after completion of an appropriate BS degree. This option allows outstanding undergraduates to begin planning a PhD program after completion of an appropriate BS degree. This option allows exceptionally well qualified undergraduates to enter directly into the PhD program after completion of an appropriate BS degree.

CRIMINAL JUSTICE (B.A./B.S.)
College of Health and Public Affairs
HPA1 311, 407-823-2603
http://www.cohpa.ucf.edu/crim jus/
E-mail: cjadvise@mail.ucf.edu
Undergraduate Program Coordinator: Dr. Mary Ann Eastep

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
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

A. Communication Foundations 9 hrs
B. Cultural Historical Foundations 9 hrs
C. Mathematical Foundations 6 hrs
Select MGF 1106 Finite Math
Select CGS 1065C, STA 1060C, or STA 2014C
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites

none

3. Core Requirements

(18 hrs)

CCJ 3024 Criminal Justice System 3 hrs
CCJ 3014 Crime in America 3 hrs
CJL 3510 Prosecution and Adjudication 3 hrs
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 criminal justice course work. Seniors can satisfy up to six hours of this requirement with internship and up to six hours with directed independent study; however, the combination of these non-class options shall not exceed nine hours. Program standards must be met to be eligible for either internship or independent study credit.
15 additional semester hours of supporting courses to be selected from an approved list provided by the Department. These courses may vary from student to student depending upon individual needs or objectives, but include selected courses from public administration, legal studies, sociology, statistics, and psychology. The supporting course requirements may also be met by completing a minor from another program approved by the Department with a minimum of 15 semester hours credit.

5. Upper Division Unrestricted Electives none

6. Departmental Exit Requirements (120 hrs)

Students must take a minimum of 36 hours from the department to obtain the UCF degree in Criminal Justice.

7. Foreign Language Requirements

Admission:

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

Graduation:

Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at college level. The foreign language credits may be used toward the 15 hour supporting course requirement.

8. University Minimum Exit Requirements

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

Total Semester Hours Required 120 hrs

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

Winter
Fall 14 hrs ENC 1101 3
MIS 1106 or MAC 1105 3
PSY 2041 3
EGN 2000 or HUM 2210 3
AANH 1010, ARH 2050, THE 2000 or REL 2050, PHI 2010, LIT 2110, LIT 2120

Spring 15 hrs ENC 1102 3
EGN 2000 or HUM 2210 3
AANH 1010, ARH 2050, THE 2000 or REL 2050, PHI 2010, LIT 2110, LIT 2120

Sophomore Year

Fall 15 hrs SPC 1600 3
EIH 2001 or HUM 2230 or AMH 2020 3
BSC 1055 or MCB1310 or GLY 1030 or PSC 1121 or ANTH 2511 3
CJ Elective 3

Spring 15 hrs EIH 2001 or HUM 2230 or AMH 2020 3
BSC 1055 or MCB1310 or GLY 1030 or PSC 1121 or ANTH 2511 3
CJ Elective 3

Junior Year

Fall 15/16 hrs CJL 3510 3
CJC 3010 3
CJ Elective 3

Spring 15/16 hrs CJL 3510 3
CJE 4014 3
CJC 4701 3
CJ Elective 3

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Supporting Elective/Foreign Language 3
Supporting Elective/Foreign Language 3
CJ Elective 3
CJ Elective 3
Senior Year
Fall 15 hrs Spring 9/15 hrs
CJ Elective 3 C CJ Internship or 3/6
CJ Elective 3 C CJ Elective 3
Supporting Elective 3 Supporting Elective 3
Elective 3 Elective (if necessary) 3
Elective 3 Elective (if necessary) 3

CRIMINAL JUSTICE (B.S.)
A.S. to B.S. Track
Note: For detailed information about this program, see description in the AS to BS Programs section

DIGITAL MEDIA (B.A.)
College of Arts and Humanities
Digital Media, 500 OTC
http://www.dm.ucf.edu
E-mail: digitalmedia@dm.ucf.edu
Head of Digital Media: Dr. David Vickers, 407-823-6110

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 Humanities. It recognizes that there are many combinations of courses which meet the needs of individual students. Two concentration areas – Visual Language and Digital Interactive Systems – 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 computer. Contact Digital Media or see the website (http://www.dm.ucf.edu) for the minimum hardware and software specifications.

Admission Requirements
none
Degree Requirements
- UCF students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each required course.
- Residency requirement consists of at least 24 hours of regularly scheduled upper division course work taken at UCF.
- Co-op or internship credits are not permitted in this major without prior, written permission.
- Students should see an advisor prior to selecting this major, and at least annually thereafter.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      9 hrs
   B. Cultural and Historical Foundations
      Take one course from 1.B.1 list
      3 hrs
      Select ARH 2050 or
      If Digital Interactive Systems take ARH 2050 or
      MUL 2010
      2 hrs
      Take one course from either 1.B.1 or 1.B.2
      3 hrs
   C. Mathematical Foundations
      6 hrs
      Select MAC 1105 College Algebra and
      Select COP 2500C Concepts in Computer Science
   Note: These two courses fulfill the math GEP
   D. Social Foundations
      6 hrs
   E. Science Foundations
      6 hrs

2. School of Film and Digital Media Common Core (15 hrs)
   DIG 3001* Digital Media Principles 3 hrs
   FIL 1007 Foundations of Story 3 hrs
   FIL 1008 Cinematic Expression/Aesthetics 3 hrs
   FIL 2107 Script Analysis 3 hrs
   FIL 2423 Foundations of Production 3 hrs

3. Specialization. Choose one of the following 2 areas:

   Visual Language (B.A.) (61 hrs)
   This specialization concerns how to tell stories and communicate using the visual language of the moving image, animation, and cinematic visual effects.

   3A: Visual Language – Program Core: (16 hrs)
   - ARH 2050 History of Western Art I GEP
   - ART 2300C Drawing Fundamentals I 3 hrs
   - ART 2301C Drawing Fundamentals II 3 hrs
   - COP 2500C Concepts in Computer Science GEP
   - DIG 3485 Visual Language of Moving Image 3 hrs
   - DIG 3486C Computers as Medium 4 hrs
   - DIG 3525 Digital Media Production I 3 hrs
   - MAC 1105 College Algebra GEP
   *See Transfer Notes for possible substitutions.

   3B: Visual Language – Basic Concentration: (15 hrs)
   Note: Admission to all courses after DIG 3485 is dependent on the student's achieving an 'A' or 'B' in DIG 3001 and an 'A' in the core course DIG 3485- Visual Language of the Moving Image.
   - DIG 3355 Artificial Environments & Effects 3 hrs
   - DIG 3362 Artificial Characters 3 hrs
   - DIG 3439 Visual Storytelling & Visual Development 3 hrs
   - DIG 3523 The Production Process 3 hrs
   - DIG 4024 Generating and Manipulating Digital Imagery 3 hrs

   3C: Visual Language – Advanced Concentration: (30 hrs)
   Note: Admission to the Advanced Concentration is dependent on a portfolio review by faculty.
   Choose 30 hours from the following courses:
   - DIG 4206C New Imagery in Motion Workshop 4 hrs
   - DIG 3200C Look Model Workshop 4 hrs
   - DIG 4326C Geometric Modeling Workshop 4 hrs
   - DIG 4355C Artificial Environment & Effects Workshop 4 hrs
   - DIG 4369C Artificial Characters Workshop 4 hrs
   - DIG 4451C Visual Storytelling & Visual Dev Workshop 4 hrs
   - DIG 4522 Digital Media Service 3 hrs
   - DIG 4524L Digital Media Project I 3 hrs
   - DIG 4526C Digital Media Production II 3 hrs
   - IDS 4796C Production Software 3 hrs
   - DIG 4528 Digital Media Project II 3 hrs

   Digital Interactive Systems (B.A.): (60 hrs)
   Note: Admission to all courses after DIG 3001 is dependent on the student's achieving an 'A' or 'B' in DIG 3001.

   3A: Digital Interactive Systems Program Core: (22 hrs)
   - COP 2500C Concepts in Computer Science GEP
   - DIG 3485 Visual Language of Moving Image 3 hrs
   - DIG 3525 Digital Media Production I 3 hrs
   - DIG 3821 Creative Digital Problem Solving 3 hrs
   - DIG 3811 User Centered Design 3 hrs
   - DIG 3523C Information Management and Authorship 3 hrs
   - DIG 3153 Writing for Digital Media 3 hrs
   - MAC 1105 College Algebra GEP

   3B: Digital Interactive Systems Basic Concentration: (15 hrs)
   - DIG 3153C Digital Imagery 3 hrs
   - DIG 3286C Assembling Digital Media 3 hrs
   - DIG 3253 Digital Media Audio 3 hrs
   - DIG 3716L Internet Interaction 3 hrs
   - DIG 4921C E-Commerce I 3 hrs
   - FIL 3625 Interactive Entertainment 3 hrs

   3C: Digital Interactive Systems Advanced Concentration: (21 hrs)
   Select any seven of the following courses:
   - DIG 3450C Interactive Performance I 3 hrs
   - DIG 3465C Converging Media 3 hrs
   - DIG 4324 Modeling for Real-time Systems I 3 hrs
   - DIG 4455C Interactive Performance II 3 hrs
   - DIG 4526C Digital Media Production II 3 hrs
   - DIG 4640 Autonomous Media 3 hrs
   - DIG 4641 Creative Digital Devices 3 hrs
   - DIG 4713C Game Design 3 hrs
   - DIG 4715C Game Engines 3 hrs
   - DIG 4780 Modeling for Real-time Graphics 3 hrs
   - DIG 4630C Media for E-Commerce II 3 hrs
   - EDM 5050 Technology Integration 3 hrs
   - FIL 3534 Sound Design I 3 hrs
   - FIL 3625 Interactive Entertainment 3 hrs
   - FIL 4535C Sound Design II 3 hrs
   - DIG 3134C Internet Software Design 3 hrs
   - DIG 4528 Digital Media Project 2 3 hrs
   - DIG 5138C Interactive Media Design 3 hrs
   Or - any 3000 or 4000 level courses included in another Digital Media
UCF Degree Programs

Concentration or any other 3000 or 4000 level IDS/DIG Digital Media course.

4. Capstone Experience (4 hrs)
   DIG 3035 Digital Media in the Workplace 1 hrs
   DIG 4522 Digital Media Service 3 hrs
   DIG 4524L Digital Media Project I 3 hrs

5. Foreign Language Requirements (0-8 hrs)
   BA requirements:
   Admission: Met by graduation requirement.
   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

6. Electives (variable)
   Electives will consist of 3000 and 4000-level courses as approved by the student’s advisor. These electives may include DIG 4528 Digital Media Project 2, subject to acceptance in the project.

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

8. Total Semester Hours Required 120 hrs
   Related Programs: Art, Computer Science, English, Film, Music
   Related Minors: Art-Studio, Computer Information Technology, Computer Science, Digital Media, English-Technical Writing, Film, Music
   Transfer Notes:
   A. Grades less than “C” (2.0) are not accepted.
   B. Courses taken at community colleges do not substitute for upper division courses.
   C. Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

EARLY CHILDHOOD EDUCATION (B.S.)
PRE-KINDERGARTEN – PRIMARY (PK-3)
College of Education
Department of Child, Family and Community Sciences
ED 209
http://pegasus.cc.ucf.edu/~eceucf
E-mail: ece@mail.ucf.edu
Program Coordinator: TBA, 407-823-0045

Admission Requirements
A. Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
B. Have a minimum 2.75 overall GPA, with provisional acceptance for one semester if GPA is 2.5 (GPA must be 2.75 by the second semester).
C. Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
D. Complete education common program prerequisite courses with a minimum letter grade of “C-” (1.75) or better.
E. Meet the Gordon Rule Requirement.

Degree Requirements
A. Students should seek advising through the Early Childhood Education staff in the Education Complex, suite 206 or by email (ece@mail.ucf.edu) prior to registering for classes.
B. The courses designated in 1. (General Education) and 2. (Education Common Program Prerequisite) should be completed prior to admission to the major and upper division education courses.

Students must earn a “C-” or better in each required Early Childhood Education course. However, a minimum overall 2.75 GPA in all courses within the major is required.

Passing score on ALL three sections of the Florida Teacher Certification Examination (FTCE).
- FTCE General Knowledge Test (GKT) – (if CLAST was used for admission) passing scores on the GKT is strongly recommended during semester 1 of the junior year and/or at the time of application to Internship I.
- FTCE Professional Education Test (PEd) and Subject Area Examination (SAE – Prekindergarten/Primary PK-3) – passing scores strongly recommended prior to application for Internship II.

This is a state-approved, initial teacher preparation program designed in compliance with Florida Statutes and State Board of Education Rule 6A-5.066. Degree requirements are subject to change based on state mandates.

1. UCF General Education Program (36 hrs)
   A. Communication Foundation (9 hrs)
      1. ENC 1101 English Composition I 3 hrs
      2. ENC 1102 English Composition II 3 hrs
   B. Cultural-Historical Foundation (8 hrs)
      1. General Education Program elective from section B1 3 hrs
      2. General Education Program elective from section B2 3 hrs
   C. Mathematical Foundation (6 hrs)
      1. MGF 1106 Finite Mathematics 3 hrs
      2. STA 1060C Principles of Statistics 3 hrs
   D. Social Foundation (6 hrs)
      1. POS 2041 American National Government 3 hrs
      2. PSY 2012 General Psychology 3 hrs
   E. Science Foundation (6 hrs)
      1. PSC 1111 Physical Science 3 hrs
      2. ANT 2511 The Human Species or BSC 1005 Biological Principles 3 hrs
   Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)
   EDF 2005 Introduction to Education 3 hrs
   EDF 2701 Teaching Diverse Populations 3 hrs
   EME 2040 Technology for Educators 3 hrs
   Note: In addition to EDF 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (15 hrs)
   MAC 1105 College Algebra 3 hrs
   EDF 2130* Child and Adolescent Development for Educators 3 hrs
   EDF 2720* Children in Schools: Legal, Ethical And Safety Concerns 3 hrs
   EEC 4731 Health, Safety, and Nutrition for Young Children or similar course 3 hrs
   Select one:
   ARE 2011 Early Childhood Art and Creativity 3 hrs
   MUE 2211 Early Childhood Music and Movement 3 hrs
   *Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Early Childhood Education Program Recommended Sequence of Required Upper Division Courses
   Notes:
   - All methods/specialization/foundations courses must be completed with a letter grade of “C-” (1.75) or better before registering for Internship II. However, a minimum GPA of 2.75 is required in the professional, specialization and overall for admission to Internship II.
   - Early Childhood Education majors take a variety of courses related to young children and their learning, development, and family environment. Students in this program are working toward certification in PreK-Primary (PK-3) with ESOL Endorsement. They take a series of core and specialization courses to prepare them for...
to teach in the schools and to demonstrate mastery of the Florida Educator Accomplished Practices (FEAP). Early and continuous field experiences are provided to enhance the Early Childhood Education major’s program and to integrate theory and practice in actual school settings. Throughout the program, students document and reflect upon their accomplishments in a Professional Portfolio, which is continuously reviewed by faculty.

Semester I (15 hrs)

- EEC 3700 Social and Emotional Development of Young Children 3 hrs
- EEC 4XXX Early Childhood Education Theory and Practice 3 hrs
- RED 3310 Early Reading, Writing and Language Arts 3 hrs
- EEX 4751 Parent Involvement 3 hrs
- TSL 4080 Theory and Practice of Teaching ESOL 3 hrs
- Students in Schools

- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.

Semester II (15 hrs)

- EEC 4604 Classroom Management and Guidance of Young Children 3 hrs
- EEC 4207 Assessment and Evaluation of Young Children 3 hrs
- TSL 4141 Issues in Second Language Acquisition 3 hrs
- EEC 4289 Curriculum Activities in Early Childhood 3 hrs
- EEX 3450 Young Children with Special Needs 3 hrs

- Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing Semester II.

Summer (6 hrs)

- EEC 4303 Planning Creative Activities in Early Childhood 3 hrs
- RED 3012 Basic Foundations of Reading 3 hrs

- Passing score on the Subject Area Examination (Prekindergarten/Primary PK-3) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.

Semester III (12 hrs)

- MAE 4300 Math Curriculum and Assessment in Early Childhood 3 hrs
- SCE 4304 Science Curriculum and Assessment in Early Childhood 3 hrs
- RED 4311 Primary Reading, Writing, and Language Arts 3 hrs
- EEC 3940 Integration Internship I (two full days per week) 3 hrs

- Based on recommendations above, the student should achieve a passing score on all applicable sections of the Florida Teacher Certification Examination prior to entry into Student Teaching (EEC 4943 Internship II).

- Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.clinicalexperiences.education.ucf.edu.

Semester IV (12 hrs)

- EEC 4943 Student Teaching – Internship II 12 hrs

- 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-5.066.

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 overall 2.75 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Complete a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination. See http://www.fldoe.org for test dates and test sites.

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
- 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 120 hrs

9. Recommended Four-Year Sequence of Courses

Note: This recommended sequence may vary at selected regional campus locations. Consult with your Education advisor and review your degree audit for more recent information.

Freshman Year

Fall (12 hrs) Spring (15 hrs)

- EDF 2005 Introduction to Education 3
- ENC 1101 English Composition I 3
- MGF 1106 Finite Mathematics 3
- PSY 2012 General Psychology 3

- EEC 4268 Curriculum Activities in Early Childhood 3 hrs
- EEX 4751 Parent Involvement 3 hrs
- EEC 4303 Plan Creative Activities in EC 3 hrs
- TSL 4080 Theory and Practice of Teaching ESOL 3 hrs

- EEC 3940 Integration Internship I (two full days per week) 3 hrs

- Student Teaching – Internship II 12 hrs

Sophomore Year

Fall (15 hrs) Spring (12 hrs)

- EDC 3200 Introduction to Education 3
- ENC 1102 English Composition II 3
- MGF 1106 Finite Mathematics 3
- PSY 2012 General Psychology 3

- EEC 4268 Curriculum Activities in Early Childhood 3 hrs
- EEX 4751 Parent Involvement 3 hrs
- EEC 4303 Plan Creative Activities in EC 3 hrs
- TSL 4080 Theory and Practice of Teaching ESOL 3 hrs

- EEC 3940 Integration Internship I 3 hrs

- Student Teaching – Internship II 12 hrs

Junior Year

Fall (15 hrs) Spring (15 hrs)

- EEC 4300 Social and Emotional Development of Young Children 3 hrs
- EEC 4XXX Early Childhood Education Theory and Practice 3 hrs
- RED 3310 Early Reading, Writing, and Language Arts 3 hrs
- EEX 4751 Parent Involvement 3 hrs
- TSL 4080 Theory and Practice of Teaching ESOL 3 hrs

- EEC 3940 Integration Internship I 3 hrs

- Student Teaching – Internship II 12 hrs

Senior Year

Fall (12 hrs) Spring (12 hrs)

- EEC 4300 Social and Emotional Development of Young Children 3 hrs
- EEC 4XXX Early Childhood Education Theory and Practice 3 hrs
- RED 3310 Early Reading, Writing, and Language Arts 3 hrs
- EEX 4751 Parent Involvement 3 hrs
- TSL 4080 Theory and Practice of Teaching ESOL 3 hrs

- EEC 3940 Integration Internship I 3 hrs

- Student Teaching – Internship II 12 hrs

Note: Please note: It is strongly recommended to take the Professional Education Test (PEd) portion of the FTCE prior to entering the Senior Year, and the Pre-Kindergarten/Primary PK-3 Subject Area Examination portion of the FTCE prior to entry into student teaching (EEC 4943 Internship II).

Deadline dates and applications are available through the Office of Clinical Experiences at http://www.fldoe.org for test dates and sites.

*Transfer Note: Courses taken at community colleges may substitute for select courses with the permission of the department.

Summer (6 hrs)

- POS 2041 Amer National Gov 3
- ARE 2110 EC Art & Creativity or MUE 2211 EC Music & Move 3

*Please note: It is strongly recommended to take the Professional Education Test (PEd) portion of the FTCE prior to entering the Senior Year, and the Pre-Kindergarten/Primary PK-3 Subject Area Examination portion of the FTCE prior to entry into student teaching (EEC 4943 Internship II).
ECONOMICS (B.A.)
College of Business Administration
Department of Economics, BA2 305, 407-823-3266
http://www.bus.ucf.edu/economics

Major Advisor: R. Pennington, BA2 303B, 407-823-2640,
E-mail: robertp@mail.ucf.edu

The Bachelor of Arts in Economics is designed for students who wish to
receive specialized training in economics within a broad liberal arts education.

Several flexible tracks allow students to customize their education
to their personal interests and career goals.

These tracks can be coupled with a minor from many different
Colleges to create a unique program for each student.

An Economics degree provides skills and training for careers in business,
non, government, politics, teaching, research, and a variety of other areas. This degree also provides a strong foundation for future graduate studies in business, economics, law and public administration. Successful completion of this program leads to the Bachelor of Arts degree with a major in Economics.

Admission Requirements

none

Degree Requirements

Students who change degree programs and select this major
must adopt the most current catalog requirements.

Students should consult with the major advisor for the Department.

General Education Program and Common Program Prerequisite
courses are usually completed in the first 60 hours.

1. UCF General Education Program

(36 hrs)
A. Communication Foundations
Required: SPC 1600
9 hrs

B. Cultural and Historical Foundations
9 hrs

C. Mathematical Foundations
Select MAC 1105 College Algebra (or Calculus)
3 hrs

Select STA 2023 Principles of Statistics
3 hrs

D. Social Foundations
Select ECO 2013 Microeconomics or
ECO 2023 Microeconomics
3 hrs

Select one: PSY 2012, SYG 2000
3 hrs

E. Science Foundations
6 hrs

2. Common Program Prerequisites

(3 hrs)
ECO 2013 Principles of Macroeconomics
ECO 2023 Principles of Microeconomics
3 hrs

3. Core requirements

(16 hrs)
ECO 3301 Intermediate Microeconomics
3 hrs

ECO 3203 Intermediate Macroeconomics
3 hrs

*ECO 3401 Quantitative Business Tools I
3 hrs

*ECO 3411 Quantitative Business Tools II
4 hrs

ECO 4451 Research Methods in Economics
3 hrs

*At UCF, students who have completed MAC 2233 (or any Calculus I & 2 sequence)
and STA 2023 will be waived from ECO 3401. Students who have not completed
both classes with a "C" (2.0) or better must take ECO 3401.
**STA 4163 or STA 4321 may substitute for ECO 3411.

4. Upper Division Restricted Electives

(18 hrs)
All B.A. economics majors will be required to take six (6) electives by
choosing one of the following tracks:

4.1 PRE-LAW TRACK

(9 hrs)
Restricted electives
ECO 4751 Law and Economics
ECO 4303 History of Economic Thought
ECP 4403 Industrial Organization and Game Theory
Select any other three 3000 - 4000 level ECO, ECS or ECP (including
ECO 4941) courses other than the required major and this track’s
restricted elective courses.

4.2 POLITICAL ECONOMY TRACK

(9 hrs)
Restricted electives
ECO 4504 Public Economics
ECO 4303 History of Economic Thought
ECS 4013 Economics of Developing Areas
Select any other three 3000 - 4000 level ECO, ECS or ECP (including
ECO 4941) courses other than the required major and this track’s
restricted elective courses. For double majors in Political Science,
two of these electives can be selected from Political Science with
advisor’s approval.

4.3 PRIVATE ENTERPRISE TRACK

(9 hrs)
Restricted electives
ECO 3223 Money and Banking
ECP 3203 Labor Economics
ECP 4403 Industrial Organization and Game Theory
Select any other three 3000 - 4000 level ECO, ECS or ECP (including
ECO 4941) courses other than the required major and this track’s
restricted elective courses.

4.4 INTERNATIONAL TRACK

(9 hrs)
Restricted electives
ECO 3703 International Trade
ECO 4704 International Macroeconomics
ECS 4013 Economics of Developing Areas
Select any other three 3000 - 4000 level ECO, ECS or ECP (including
ECO 4941) courses other than the required major and this track’s
restricted elective courses.

4.5 ECONOMICS OF GOVERNMENTAL REGULATION

(9 hrs)
Restricted electives
ECP 4302 Environmental & Natural Resource Economics
ECO 4504 Labor Economics
ECP 4303 Environmental Economics
Select any other three 3000 - 4000 level ECO, ECS or ECP (including
ECO 4941) courses other than the required major and this track’s
restricted elective courses.

4.6 GENERAL TRACK

(18 hrs)
Select any six 3000 - 4000 level ECO, ECS or ECP (including ECO
4941) courses other than the required major courses. Two of these
electives can be selected from a related discipline with advisor’s
approval.

It is possible to have a double track; however, only the first designat-
ted track will show up on the transcript.

For those students interested in preparing for graduate school in
Economics and other graduate studies, the following courses are
strongly recommended:

ECO 3703 International Trade
ECO 4412 Econometrics
ECO 3410 Mathematical Economics
ECP 4504 Industrial Organization and Game Theory

Students are also encouraged to select MAC 2311, 2312 and 2313
along with STA 4321 and 4322 as substitutes for ECO 3401 and ECO
3411. Minors in Mathematics or Statistics are also recom-
rocemed to help prepare students for graduate school. Consult with
the Department’s major advisor on the appropriate minors to be
paired with different tracks.

5. Required Minor

(18 hrs min)
Completion of a minor in one of the following suggested areas:
Mathematics, Statistics, Legal Studies, Environmental Studies, Digital
Media, Computer Science, History, English, or any of the Social and
Behavioral Sciences. Other minors may be selected with prior
approval of the Economics Undergraduate Advisor.

6. Departmental Exit Requirements

Students majoring in Economics must earn a grade of “C” (2.0)
or better in each ECO, ECP, ECS course and in each course
applied towards the major as well as a 2.0 overall average in the
major.

Computer Competency met by Research Methods course.

7. Foreign Language Requirements

(0-8 hrs)
Admission: Two years of one foreign language in high school, or
one year of one foreign language in college (or equivalent proficien-
cy exam) prior to graduation.

Graduation: Proficiency equivalent to one year of college instruction
in a foreign language taught by the Department of Modern
Languages and Literatures or Judaic Studies. Standardized exami-
nations for foreign languages may be used to meet the requirement.

8. Electives

(variable)
Select primarily from upper level courses, with departmental advi-
sor’s approval.
9. University Minimum Exit Requirements

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

Total Semester Hours Required 120 hrs

Related Programs: Economics B.S.B.A., Accelerated B.A./M.S.

Related Minors: Statistics, Mathematics, Legal Studies, Political Science, Psychology, Sociology, Computer Science

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- ECO 2013 and 2023 are prerequisites for all subsequent economics courses.

Four Year Plan of Study – B.A. Economics

Freshman

1st Term 15 hrs 2nd Term 15 hrs
ENC 1101* 3 ECO 2023* 3
Cult-Hist I* 3 Cult-Hist II* 3
SPC 1600 3 Art/Music/Lit 3
MAC 1109* (or Calculus) 3 ENC 1102* 3
***Elective 3 3 STA 2023* 3

Must complete 9 hours in a summer semester

Sophomore

1st Term 15 hrs 2nd Term 15 hrs
ECO 2013* 3 ECO 3101 3
Science 3 Science 3
Psy/Soc/Anth 3 ***Elective 3
QMB 3201 (if no prior Calculus) 3 ***Elective 3
Foreign Language 3 Foreign Language 3
**C” (2.0) or better grade required in each class

Junior

1st Term 16 hrs 2nd Term 15 hrs
ECO 3203 3 ECO Elective 3
ECO 3411 (or STA 4163 or 4321) 4 ECO Elective 3
ECO Elective 3 Minor** 3
Minor** 3 Minor** 3
*** Elective 3 *** Elective 3

Senior

1st Term 15 hrs 2nd Term 14 hrs
ECO Elective 3 ECO 4451 3
ECO Elective 3 Minor** 3
ECO Elective 3 Minor** 3
Minor** 3 Minor** 3
Minor** 3 Minor** 3

**18 hours (minimum) of minor required
***General electives as required to reach 120 semester hours.

ECONOMICS, BUSINESS (B.S.B.A.)

College of Business Administration

Undergraduate Advising: BA2 101, 407-823-2184;
Major Advisor: R. Pennington, BA2 303B, 407-823-2640,
E-mail: robertp@mail.ucf.edu

The Business Economics major for the Bachelor of Science in Business Administration is designed for students who wish to receive specialized training in economics along with core skills in business administration. Several flexible tracks allow students to customize their education to their personal interests and career goals. This degree provides skills and training for careers in business and industry, law, government, politics, teaching, research, and a variety of other areas. This degree also provides a strong foundation for future graduate studies in business, economics, law and public administration. Successful completion of this program leads to the Bachelor of Science in Business Administration degree with a major in Economics.

Admission Requirements for Business Economics

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
      Required: SPC 1600
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 1105 College Algebra (or Calculus) 3 hrs
      Select CGS 2100CC Computer Fundamentals for Business 3 hrs
   D. Social Foundations
      Select ECO 2013 Principles of Macroeconomics or
      ECO 2023 Principles of Microeconomics 3 hrs
      Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
   E. Science Foundation 6 hrs

2. Common Program Prerequisites (18-21 hrs)
   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 Principles of Macroeconomics 3 hrs
   - ECO 2023 Principles of Microeconomics 3 hrs
   - *ECO 3401 Quantitative Business Tools I 3 hrs
   - *CGS 2100CC Computer Fundamentals for Business 3 hrs
   - *At UCF, students who have completed MAC 2233 (or any Calculus I & 2 sequence) and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a “C” (2.0) or better must take ECO 3401.

3. Common Body of Knowledge (36 hrs)
   First or subsequent semester in the College of Business Administration:
   - GEB 3031 Cornerstone (Required in 1st or 2nd semester) 4 hrs
   - GEB 3356 Introduction to International Business 4 hrs
   - BUL 3130 Legal & Ethical Environ. of Business 4 hrs
   - ECO 3411** Quantitative Business Tools II 4 hrs
   - FIN 3403 Business Finance 4 hrs
   - MAN 3025 Management of Organizations 4 hrs
   - ISM 3011 Essentials of Management Information Systems 4 hrs
   - MAR 3023 Marketing 4 hrs
   Last Semester:
   - MAN 4720 Strategic Management 4 hrs
   - STA 4163 or STA 4321 may substitute for ECO 3411

4. Special College and/or Departmental Requirements
   - Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
   - Final exams will be given during Exam Week.
   - Students must have at least a 2.0 GPA in the COB and major.
   - Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.

5. Required Major Courses (9 hrs)
   - ECO 3101 Intermediate Microeconomics 3 hrs
   - ECO 3203 Intermediate Macroeconomics 3 hrs
   - ECO 4451 Research Methods in Economics 3 hrs

6. Upper Division Restricted Electives (15 hrs)
   All B.S.B.A. economics majors will be required to take five (5) electives by choosing one of the following tracks:

6.1 BUSINESS ECONOMICS TRACK
   Restricted electives (9 hrs)
   - ECP 3203 Labor Economics
   - ECP 4403 Industrial Organization and Game Theory
   - ECO 3223 Money and Banking
   Select any other two 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.
6.2 INTERNATIONAL TRACK
Restricted electives (9 hrs)
- ECO 3703 International Trade
- ECO 4704 International Macroeconomics
- ECO 4013 Economics of Developing Areas
Select any other two 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.

6.3 PRE-LAW TRACK
Restricted electives (9 hrs)
- ECO 4751 Law and Economics
- ECP 3203 Labor Economics
- ECP 4403 Industrial Organization and Game Theory
Select any other two 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.

6.4 FINANCIAL ECONOMICS TRACK
Restricted electives (9 hrs)
- ECO 4412 Econometrics
- ECO 3203 Money and Banking
- ECO 4704 International Macroeconomics
Select any other two 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses. For double majors in Finance, two of these electives can be selected from Finance with advisor’s approval.

6.5 ECONOMICS OF GOVERNMENTAL REGULATION
Restricted electives (9 hrs)
- ECP 4302 Environmental & Natural Resource Economics
- ECO 4504 Public Economics
- ECP 3203 Labor Economics
Select any other two 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major and this track’s restricted elective courses.

6.6 GENERAL TRACK
Select any five 3000 - 4000 level ECO, ECS or ECP (including ECO 4941) courses other than the required major. One of these electives can be selected from a related discipline with advisor’s approval.

It is possible to have a double track; however, only the first designated track will appear on the transcript.

For students interested in preparing for graduate school in Economics and other graduate studies, the following courses are strongly recommended:
- ECO 3703 International Trade
- ECO 4412 Econometrics
- ECO 3410 Mathematical Economics
- ECO 4504 Public Economics
- ECP 4403 Industrial Organization and Game Theory
Students are also encouraged to select MAC 2311, 2312 and 2313 along with STA 4321 and 4322 as substitutes for ECO 3401 and ECO 3411.

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.

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

9. Electives*** (variable)

Total Semester Hours Required 120 hrs
Related Programs: Economics B.A., Accelerated B.S.B.A./M.S.

Transfer Notes
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- 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.
- 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 - Business Economics
Freshman
1st Term 15 hrs 2nd Term 15 hrs
- ENC 1101* 3 ECO 2023* 3
- Cult-Hist I* 3 Cult-Hist II* 3
- SPC 1500 3 Art/Music/Lit 3
- ECO 1105 (or Calculus) 3 ENC 1102* 3
- ***Elective 3 CGS 2100CC 3
- Must complete 9 hours in a summer semester

Sophomore
1st Term 15 hrs 2nd Term 15 hrs
- ECO 2013* 3 ECO 3101 3
- ACG 2021* 3 ACG 2071* 3
- Science 3 Science 3
- Psy/Soc/Ant 3 ***Elective 3
- QMB 3201*(if no Calculus & Statistics) 3 QMB 3201 3
- ***Elective 3 "C" (2.0) or better grade required in each class

Junior
1st Term 15 hrs 2nd Term 15 hrs
- ECO 3203 3 ECO Elective 3
- ECO 4411 4 GEB 3356 4
- MAR 3023 4 MAN 3025 4
- GEB 3031 4 FIN 3403 4

Senior
1st Term 16 hrs 2nd Term 14 hrs
- ECO Elective 3 ECO 4451 3
- ISM 3011 4 MAN 4720 4
- ECO Elective 3 BUL 3130 4
- ECO Elective 3 ECO Elective 3
- ECO Elective 3 ***General electives as required to reach 120 semester hours.

ECONOMICS (B.A./M.A.A.E.)
Accelerated Undergraduate/Graduate Program
Note: For detailed information about this program, see the description in the “Accelerated Undergraduate/Graduate Program” section of this Undergraduate Catalog.
ELECTRICAL ENGINEERING (B.S.E.E.)

College of Engineering and Computer Science
School of Electrical Engineering & Computer Science,
Harris Corp Engineering Ctr., Rm 246,
407-832-2787; Fax: 407-832-5419
http://www.eecs.ucf.edu

Admission Requirements:
none

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. ENC 1101 & ENC 1102
2. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs
1. Select two courses from Historical Foundations
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, REL 2300, PHI 2010, LIT 2110, or LIT 2210

C. Mathematical Foundations 7 hrs
1. Select MAC 2311L and MAC 1144
2. Select STA 3023 (PR: MAC 2312)

D. Social Foundations 6 hrs
1. Prefer ECO 2013 or ECO 2023.
2. ANT 2000, PSY 2012, or GEN 1000

E. Science Foundations 7 hrs
1. Select PHY 2048L/48L (PR: MAC 2311)
2. ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310

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

3. Courses Required for the Engineering Core (41 hrs)

4. Approved Technical Electives (10 hrs)

5. Departmental Graduation Requirements (6 hrs)

6. U.S. University Minimum Graduation Requirements

7. Related Programs: Computer Engineering, Computer Science, Electrical Engineering Technology (Electrical Systems Concentration)

Related Minors:
Engineering Leadership, Intelligent Robotic Systems

Transfer Notes:
Courses taken from Community Colleges do not substitute for Upper Division Courses unless part of an articulated pre-engineering degree program.
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

UCF Degree Programs
### UCF Degree Programs

**Electrical Engineering Technology - Computer Systems Concentration (B.S.E.E.T.)**

College of Engineering and Computer Science
Engineering Technology (ENT) Department
ENGR 207, 407-823-4749; Fax: 407-823-4746
http://www.ent.ucf.edu

Coordinator: Dr. Aliireza Rahrooh,
E-mail: rahrooh@pegasus.cc.ucf.edu

**Admission Requirements**

- none

**Degree Requirements**

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.

- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. **UCF General Education Program**
   
   **(37+1 hrs)**
   
   **A. Communication Foundations**
   
   - 1. ENC 1101 & ENC 1102
   - 2. Prefer SPC 1016
   - 9 hrs

   **B. Cultural and Historical Foundations**
   
   - 1. Select MAC 1105
   - 2. Select STA 2023
   - 6 hrs

   **C. Mathematical Foundations**
   
   - 1. Select PHY 2053C or PHY 2053L
   - 2. Select BSC 1005/1050L, BSC 1050/1050L, or BSC 2010C
   - 8 hrs

2. **Common Program Prerequisites (CPP)**
   
   **(6/8 hrs)**
   
   MAC 2253
   - Applied Calculus I
   - 3/4 hrs

   or MAC 2311
   - Calculus w/Analytical Geometry I
   - 3/4 hrs

   MAC 2254
   - Calculus II or equiv
   - 3/4 hrs

   or MAC 2312
   - Calculus w/Analytical Geometry II
   - 3/4 hrs

   PHY 2053C
   - Physics I/Lab
   - GEP

   or PHY 2048L
   - Physics for Scientists & Engineers
   - GEP

3. **Engineering Technology Core Requirements**
   
   **(25 hrs)**
   
   MAC 1105
   - College Algebra
   - GEP

   MAC 1114
   - College Trigonometry
   - 3 hrs

   MAC 2253
   - Applied Calculus I
   - 3 hrs

   or MAC 2311
   - Calculus w/Analytical Geometry I
   - 3 hrs

   MAP 3401
   - Problem Analysis
   - GEP

   or MAC 2312
   - Calculus w/Analytical Geometry II
   - 3 hrs

   PHY 2053C
   - College Physics I
   - GEP

   PHY 2054C
   - College Physics II
   - 4 hrs

   ETG 3541
   - Applied Mechanics
   - 3 hrs

   ETI 3651C
   - Computer Applications
   - 3 hrs

   ETI 3671
   - Technical Economic Analysis
   - 3 hrs

   ETI 3116
   - Applied Engineering Quality Assurance
   - 3 hrs

   ETI 4448
   - Applied Project Management
   - 3 hrs

   STA 2023
   - Statistical Methods I
   - GEP

4. **Technical Specialization**
   
   **(56 hrs)**

   **Lower Level Required and Elective Courses**
   
   **(20 hrs)**

   **(C or better grades are required in all courses)**

   **EST 3543C**
   - Programmable Logic Controllers
   - 3 hrs

   CET 3923C
   - Digital Technology
   - 4 hrs

   CET 2364
   - System Applications in C
   - 3 hrs

   EET 3085C
   - Electricity and Electronics
   - 4 hrs

   EET 2025C
   - Electrical Circuits
   - 4 hrs

   **Upper Level Required Courses**
   
   **(30 hrs)**

   **(C or better grades are required in all courses)**

   CET 3198C
   - Digital Systems
   - 3 hrs

   CET 3503
   - Microcomputer Technology I
   - 3 hrs

   CET 3883B
   - Applied Systems Analysis I
   - 3 hrs

   CET 4333
   - Computer Organization & Design
   - 3 hrs

   CET 4427
   - Applied Database I
   - 3 hrs

   CET 4505C
   - Applied Operating Systems I
   - 3 hrs

   EET 3716
   - Network Analysis
   - 3 hrs

   CET 4138C
   - 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)**

   **(C or better grades are required in all courses)**

   See faculty advisor for list of approved Technical Electives.

5. **Departmental Exit Requirement**
   
   **(3 hrs)**

   **(C or better grade is required)**

   - ETG 4950C
     - Senior Design Project
     - 3 hrs

   - A grade of 2.0 or better is required in all prerequisites.

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

   **Admission:**

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

   **Graduation:**

   - none

7. **Approved Technical Electives**
   
   **(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 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
<table>
<thead>
<tr>
<th>Semester</th>
<th>Courses</th>
<th>Hours</th>
</tr>
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<tr>
<td>Fall</td>
<td>ENC 1101 Composition I, MAC 1105 College Algebra, Social Foundation, Cultural/Historical Foundation</td>
<td>3</td>
</tr>
<tr>
<td>Spring</td>
<td>ENC 1102 Composition II, STA 2023 Statistical Methods</td>
<td>3</td>
</tr>
<tr>
<td>Sophomore Year</td>
<td>PHY 2053C College Physics I, Cultural/Historical Foundation, CET 3651C Computer Appl, CET 2364 Sys Appl in C</td>
<td>4</td>
</tr>
<tr>
<td>Summer</td>
<td>SPC 1600 Oral Communications, MAC 2253 Calculus III, or MAC 2311 Calculus w/Analytical Geometry I, or MAC 2254 Calculus II</td>
<td>3</td>
</tr>
<tr>
<td>Junior Year</td>
<td>MAP 3401 Problem Analysis, EST 3543C Programmable Logic Cont</td>
<td>3</td>
</tr>
<tr>
<td>Senior Year</td>
<td>CET 4427 Applied Database I, CET 4503 Microcomputer Tech I, CET 4505 App Oper Sys I, ETI 3116 App Eng Quality Assur</td>
<td>3</td>
</tr>
</tbody>
</table>

**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 engineering technology degree requirements in four years. Many students choose to spread out these requirements over a longer period of time. All engineering technology students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

**Freshman Year**

- Fall: ENC 1101 Composition I, MAC 1105 College Algebra, Social Foundation, Cultural/Historical Foundation (13 hrs)
- Spring: ENC 1102 Composition II, STA 2023 Statistical Methods (15 hrs)

**Sophomore Year**

- Fall: PHY 2053C College Physics I, Cultural/Historical Foundation, CET 2364 Sys Appl in C, Summer: SPC 1600 Oral Communications, MAC 2253 Calculus III (16 hrs)
- Spring: MAC 2254 Calculus II or equiv, Cultural/Historical Foundation, CET 2364 Sys Appl in C, Summer: SPC 1600 Oral Communications, Summer: SPC 1600 Oral Communications (15 hrs)

**Junior Year**

- Fall: MAP 3401 Problem Analysis, CET 3323 Digital Technology, EST 3543C Programmable Logic Cont (13/14 hrs)
- Spring: CET 3323 Digital Technology, CET 3323 Digital Technology, Summer: CET 4134C Micro Electronics II (15 hrs)

**Senior Year**

- Fall: CET 4427 Applied Database I, CET 4503 Microcomputer Tech I, CET 4505 App Oper Sys I, ETI 3116 App Eng Quality Assur (15 hrs)
- Spring: ETI 4448 Applied Project Management, Upper level elective (12 hrs)

**Related Programs:** Electrical Engineering Technology (Electrical Systems Concentration)

**Related Minors:** Interdisciplinary Informatics Technology

**Transfer Notes:**

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution must have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution must 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.

**Upper Level Technical Electives**

Select 9 hours from courses listed below:

- CET 4138C Digital Programmable Devices
- CET 4333 Computer Organization & Design

**Admission Requirements:**

- None

**Degree Requirements:**

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

**1. UCF General Education Program**

- Communication Foundations: 9 hrs
- Cultural and Historical Foundations: 9 hrs
- Mathematical Foundations: 6 hrs
- Science Foundations: 8 hrs
- Engineering Technology Core Requirements: 25 hrs
- Upper Level Required and Elective Courses: 56 hrs
- Upper Level Required Courses: 22 hrs

**2. Common Program Prerequisites (CPP)**

- MAC 2233 Calculus I: 3/4 hrs
- MAC 2311 Calculus w/Analytical Geometry I, MAC 2254 Calculus II or equiv: 3/4 hrs
- PHY 2053C College Physics I: 4 hrs
- or PHY 2048/L: 3/4 hrs

**3. Engineering Technology Core Requirements**

- MAC 2233 Calculus I: 3/4 hrs
- PHY 2053C College Physics I: 4 hrs
- ETH 3143C Programmable Logic Cont: 3 hrs
- CET 4138C Digital Programmable Devices: 3 hrs
- Upper level elective: 3 hrs

**4. Technical Specialization**

- Lower Level Required and Elective Courses: 25 hrs
- Upper Level Required Courses: 22 hrs
- Upper Level Technical Electives: 9 hrs

**UCF Degree Programs**

**Electrical Engineering Technology - Electrical Systems Concentration (B.S.E.E.T.)**

**College of Engineering and Computer Science**

**Engineering Technology (ENT) Department**

**ENGR 207, 407-823-4749; Fax: 407-823-4746**

**http://www.ent.ucf.edu**

Coordinator: Dr. Alireza Rahrooh,
E-mail: rahrooh@pegasus.cc.ucf.edu
UCF Degree Programs

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

6. Foreign Language Requirements
   (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

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

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

Total Semester Hours Required: 128 hrs

Related Programs: Electrical Engineering Technology (Computer Systems Concentration).
Related Minors: Interdisciplinary Informatics Technology

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.

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 engineering technology degree requirements in two years. Many students choose to spread out these requirements over a longer period of time. All engineering technology students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

**Freshman Year**
- 13 hrs Fall
  - ENC 1101 Composition I 3
  - MAC 1105 College Algebra 3
  - Biological science 4
  - Cultural/Historical Foundation 3
  - PHY 2048/L can substitute for PHY 2053C

- 12 hrs Spring
  - ENC 1102 Composition II 3
  - STA 2023 Statistical Methods 3
  - MAC 1114 Trigonometry 3
  - Social Foundation 3
  - MAC 2311 Calculus I 4

**Sophomore Year**
- 16 hrs Fall
  - SPC 1600 Oral Communications 3
  - PHY 2053C College Physics I 3

- 15/16 hrs Spring
  - MAC 2253 Applied Calc I 3/4
  - MAC 2311 Calculus I 3/4

Related Minors: Interdisciplinary Informatics Technology

Note: For detailed information about this program, see the AS to BS Program section.

ELECTRICAL ENGINEERING TECHNOLOGY (BSEE)

AS to BSEE TRACK

Admission Requirements

Degree Requirements
- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program
   (37+1 hrs)
   - Communication Foundations 9 hrs
     1. ENC 1101 & 1102
   - Cultural and Historical Foundations 9 hrs
     1. Select MAC 1105
     2. STA 2023
   - Mathematical Foundations 6 hrs
     1. Select MAC 1105
     2. Select STA 2023
     3. Social Foundations 3 hrs
     4. Select PHY 2053C
   - Science Foundations 8 hrs
     1. Select PHY 2053C
     2. Select MAC 1105/1105L, MAC 1050L, or BSC2010C

2. Common Program Prerequisites (CPP)
   (6/8 hrs)
   (C or better grades are required in all courses)
   - MAC 2253 Calculus I 3/4 hrs
   - MAC 2311 Calculus w/Analytical Geometry I 3/4 hrs
   - MAC 2254 Applied Calculus II or equiv 3/4 hrs
   - MAC 2312 Calculus w/Analytical Geometry II 3/4 hrs
   - PHY 2053C College Physics I/Lab 3/4 hrs
   - PHY 2048/L Physics for Engrs & Scientists I 3/4 hrs
   - MAP 3401 Problem Analysis 3 hrs

3. Engineering Technology Core Requirements
   (22 hrs)
   (C or better grades are required in all courses)
   - BSC 1050L, BSC 1050L/2010C 3 hrs
   - ENR 3241 Writing for the Technical Professional 3 hrs
   - MAC 1105 College Algebra 3 hrs
   - MAC 1114 College Trigonometry 3 hrs
   - MAC 2253 Applied Calculus I 3 hrs
   - MAP 3401 Problem Analysis 3 hrs
   - MAC 2311 Calculus w/Analytical Geometry I 3 hrs
   - MAC 2312 Calculus w/Analytical Geometry II 3 hrs

Note: For detailed information about this program, see the AS to BS Program section.

ELECTRICAL ENGINEERING TECHNOLOGY - PHOTONICS CONCENTRATION (B.S.E.E.T.)

College of Engineering and Computer Science
Engineering Technology (ENT) Department
ENGR 207, 407-823-8770; Fax: 407-823-4746
http://www.ent.ucf.edu

Admission Requirements: none

Degree Requirements

Note: For detailed information about this program, see the AS to BS Program section.

1. UCF General Education Program
   (37+1 hrs)
   - Communication Foundations 9 hrs
     1. ENC 1101 & 1102
   - Cultural and Historical Foundations 9 hrs
     1. Select MAC 1105
     2. STA 2023
   - Mathematical Foundations 6 hrs
     1. Select MAC 1105
     2. Select STA 2023
     3. Social Foundations 3 hrs
     4. Select PHY 2053C
   - Science Foundations 8 hrs
     1. Select PHY 2053C
     2. Select MAC 1105/1105L, MAC 1050L, or BSC2010C

2. Common Program Prerequisites (CPP)
   (6/8 hrs)
   (C or better grades are required in all courses)
   - MAC 2253 Calculus I 3/4 hrs
   - MAC 2311 Calculus w/Analytical Geometry I 3/4 hrs
   - MAC 2254 Applied Calculus II or equiv 3/4 hrs
   - MAC 2312 Calculus w/Analytical Geometry II 3/4 hrs
   - PHY 2053C College Physics I/Lab 3/4 hrs
   - PHY 2048/L Physics for Engrs & Scientists I 3/4 hrs
   - MAP 3401 Problem Analysis 3 hrs

3. Engineering Technology Core Requirements
   (22 hrs)
   (C or better grades are required in all courses)
   - BSC 1050L, BSC 1050L/2010C 3 hrs
   - ENR 3241 Writing for the Technical Professional 3 hrs
   - MAC 1105 College Algebra 3 hrs
   - MAC 1114 College Trigonometry 3 hrs
   - MAC 2253 Applied Calculus I 3 hrs
   - MAC 2311 Calculus w/Analytical Geometry I 3 hrs
   - MAC 2312 Calculus w/Analytical Geometry II 3 hrs

Note: For detailed information about this program, see the AS to BS Program section.
4. Technical Specialization (60 hrs)

Lower Level Required and Electives Courses (21 hrs)

(C or better grades are required in all courses)

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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<tr>
<td>EST 4256</td>
<td>Photonics Communication</td>
<td>3 hrs</td>
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<tr>
<td>EST 3213</td>
<td>Wave Photonics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EST 4236</td>
<td>Laser Systems Technology</td>
<td>3 hrs</td>
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<tr>
<td>EST 4277</td>
<td>Photonic Sensors &amp; Devices</td>
<td>3 hrs</td>
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<tr>
<td>EST 4256</td>
<td>Photonics Communication</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETM 4225</td>
<td>Manufacturing of Photonics</td>
<td>3 hrs</td>
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</table>

Upper Level Required Courses (30 hrs)

(C or better grades are required in all courses)

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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Hours</th>
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<tr>
<td>EET 3085C</td>
<td>Electricity and Electronics</td>
<td>4 hrs</td>
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<tr>
<td>EET 2025C</td>
<td>Electrical Circuits</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EST 2073</td>
<td>Electronic Devices and Circuits</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EST 3543C</td>
<td>Programmable Logic Controllers</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 2364</td>
<td>System Applications in C</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Upper Level Technical Electives (9 hrs)

(C or better grades are required in all courses)

Check with ENT faculty advisor for approved electives.

5. Departmental Exit Requirement (3 hrs)

(C or better grade is required)

- CET 4930C Senior Design Project or
- EST 4259C Photonic Systems

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

6. Foreign Language Requirements (0-8 hrs)

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

Graduation: none

7. Approved Technical Electives (0-4 hrs)

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

8. University Minimum Graduation Requirements

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

Total Semester Hours Required: 128 hrs

Related Programs: Electrical Engineering Technology (Computer Systems Concentration).

Related Minors: none

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) 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 Photonics Concentration

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

Freshman Year

Fall 15 hrs Spring 12 hrs

- PHY 2053 College Physics I 4 or MAC 2311 Calculus I
- PHY 2054 College Physics II 4 or MAC 2312 Calculus II
- MAC 1144 Trigonometry 3 or ETG 4950C Sen Design Project 3
- EET 3085C Electricity and Electronics 3 or EST 3213 Wave Photonics 3
- EST 3543C Prog Logic Cont 3 or EET 4236 Laser Systems Technology 3

Sophomore Year

Fall 16 hrs Spring 14/15 hrs

- PHY 2053C College Physics I 4 or MAC 2311 Calculus I
- PHY 2054C College Physics II 4 or MAC 2312 Calculus II
- MAC 1114 Trigonometry 3 or ETG 4950C Sen Design Project 3
- EET 3085C Electricity and Electronics 3 or EST 4256 Photonics Communication 3
- EST 3543C Prog Logic Cont 3 or ETM 4225 Manufacturing of Photonics 3

Junior Year

Fall 15 hrs Spring 12 hrs

- PHY 2053 College Physics I 4 or MAC 2311 Calculus I
- PHY 2054 College Physics II 4 or MAC 2312 Calculus II
- MAC 1144 Trigonometry 3 or ETG 4950C Sen Design Project 3
- EET 3085C Electricity and Electronics 3 or EST 4236 Laser Systems Technology 3
- EST 4256 Photonics Communication 3 or ETM 4225 Manufacturing of Photonics 3

Senior Year

Fall 15 hrs Spring 12 hrs

- PHY 4548 Power Systems 3 or EET 4256 Photonics Communication 3
- EET 4158C Linear Int Cir 3 or ETG 4950C Sen Design Project 3
- ETG 4225 Manufacturing of Photonics 3 or EST 4236 Laser Systems Technology 3
- ETM 4225 Manufacturing of Photonics 3 or EST 4256 Photonics Communication 3

ELEMENlARY EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles

ED 209

http://reach.ucf.edu/~eledmed1

Program Coordinators: Dr. Karn Williams and Dr. Robert Everett
E-mail: kjwillia@mail.ucf.edu, Everett@mail.ucf.edu

Admission Requirements

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of “C” (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements

- Students should see an advisor prior to registering for classes.
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- This is a state-approved, initial teacher preparation program designed in compliance with Florida Statutes and State Board of
UCF Degree Programs

Education Rule 6A-5.066. Degree requirements are subject to change based on state mandates.

1. UCF General Education Program (36 hrs)

A. Communication Foundation (9 hrs)
   1. ENC 1101 English Composition I 3 hrs
   2. ENC 1102 English Composition II 3 hrs
   3. Prefer SPC 1600 Fundamentals of Oral Communication 3 hrs

B. Cultural-Historical Foundation (9 hrs)
   1. Prefer: AMH 2010 U.S. History 1492-1877 3 hrs
   2. Prefer: ARH 2050 The History of Art, I or ARH 2051 The History of Art II, or MUL 2010 Enjoyment of Music 3 hrs
   3. Prefer: AMH 2020 U.S. History 1877-present 3 hrs

C. Mathematical Foundation (6 hrs)
   1. Select: MAC 1105 College Algebra or MGF 1106 Finite Mathematics 3 hrs
   2. Prefer: STA 1060C Basic Statistics using MS Excel or STA 2040 Principles of Statistics 3 hrs

D. Social Foundation (6 hrs)
   1. Prefer: POS 2041 American National Government 3 hrs
   2. Prefer: PSY 2012 General Psychology 3 hrs

E. Science Foundation (6 hrs)
   1. Prefer: PSC 1121 Physical Science 3 hrs
   2. Prefer: BSC 1005 Biological Principles 3 hrs

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)

EDF 2005 Introduction to Education 3 hrs
EDG 2701 Teaching Diverse Populations 3 hrs
EME 2040 Technology for Educators 3 hrs

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversification focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (8 hrs)

EDF 2130** Child and Adolescent Development for Educators 3 hrs
MAE 2081* Elementary School Mathematics 4 hrs
PET 2081** Wellness, Children & Schools 1 hr
* MAC 1105 or MGF 1106 is a prerequisite for MAE 2081
** Transfer Notes: Courses taken at community colleges may substitute for courses in Other Program Requirements with the permission of the department.

4. Lower Division Electives (7 hrs)

Students may select other electives but are advised to take the following courses to improve their preparation for the Subject Area Examination portion of the Florida Teacher Certification Examination:
- MAC 1105 College Algebra (if MGF 1106 taken for General Education Program) or MGF 1106 Finite Mathematics (if MAC 1105 taken for General Education Program)
- One associated science lab – BSC 1005L or PSC 1121L
- A second course from the preferred courses listed in the UCF General Education Program section B.2. above (ARH 2050, ARH 2051, or MUL 2010) or an additional science course.

5. Education Program Recommended Sequence of Required Upper Division Courses

Note: The following recommended sequence of required upper division courses may vary at regional campus locations.

Semester I (15 hrs)

EDG 4410 Teaching Strategies and Classroom Management (required prior to Internship I) 3 hrs
EDF 4467 Learning Theory and Assessment (required prior to Internship I) 3 hrs
LAE 3414 Children’s Literature (required prior to Internship I) 3 hrs
RED 3012 Basic Foundations of Reading (required prior to Internship I) 3 hrs
TSL 4080 Theory and Practice of Teaching ESOL Students in Schools (required prior to 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. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.

Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.

Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDF 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.

Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.clinicalexperiences.education.ucf.edu. Prerequisites for Internship I: EDG 4410, RED 3012, TSL 4080, MAE 2801.

Note: RED 4519, MAE 4326, ARE 4331, HLP 4722 and MUE 3210 are taken concurrently with EDE 3942 Internship I.

Semester II (Internship I Block) (12 hrs)

RED 4519 Diagnostic & Corrective Reading Strategies 3 hrs
MAE 3426 How Children Learn Math 3 hrs
ARE 4331 Teaching Art in the Elementary School 3 hrs
HLP 4722 Teaching Elementary Health and Safety 1 hr
MUE 3210 Teaching Music in the Elementary School 1 hr
EDE 3942 Internship I 3 hrs

Summer (9 hrs)

EDF 4603 Analysis and Applications of Ethical, Legal, and Safety Issues in Schools 3 hrs
RED 4XXX Pracicum for Assessment and Instruction of Reading 3 hrs
TSL 4141 Issues in Second Language Acquisition 3 hrs

Note: TSL 4141 may be moved to Semester III if student does not need to take 9 hours in summer.

Semester III (12 hrs)

SCS 3110 Teaching Science in the Elementary School 3 hrs
SSE 3312 Teaching Social Science in the Elem School 3 hrs
LAE 4314 Teaching Language Arts in the Elementary School 3 hrs
EEX 4003 Teaching Exceptional Children 3 hrs

Passing score on the Subject Area Examination (Elementary Education K-6) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.

All methods/specialization/foundations courses must be completed with a letter grade of “C-” (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.

Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.clinicalexperiences.education.ucf.edu. 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-5.066.

Semester IV (Internship II Block) (12 hrs)

EDE 4943 Internship II 11 hrs
EDE 4945 Internship II Seminar 1 hr

6. Foreign Language Requirements (0-8 hrs)

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

7. Departmental Exit Requirements

Achieve a minimum overall 2.5 GPA within the major.
Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.

Complete a TESOL notebook as required for ESOL Endorsement.

Pass all applicable sections of the Florida Teacher Certification Examination.

8. University Minimum Exit Requirements

A 2.0 UCF GPA

48 semester hours of upper division credit completed
1. UCF General Education Program (36+2 hrs)
   A. Communication Foundations 9 hrs
      1. ENC 1101 & ENC 1102
      2. Prefer SPC 1016
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 6 hrs
      1. Select MAC 1105
      2. Select STA 2023
   D. Social Foundations 6 hrs
   E. Science Foundations 8 hrs

2. Common Program Prerequisites (CPP) (6/8 hrs)
   (C or better grades are required in all courses)
   MAC 2233 or MAC 2311 Calculus I 3 hrs
   MAC 2314 or MAC 2321 Calculus w/Analytical Geometry I 3/4 hrs
   MAC 2315 or MAC 2311 Calculus w/Analytical Geometry II 3/4 hrs
   PHY 2053C or PHY 2048L College Physics I/II 4 hrs
   MAP 3403 or MAP 3401 Problem Analysis 3 hrs
   ECE 3142 or ECE 3304 Digital Logic Design 3 hrs
   EET 4448 or EET 4480 Applied Project Management 3 hrs
   EET 3671 Technical Economic Analysis 3 hrs
   EET 3116 or EET 3117 Applied Engineering Quality Assurance 3 hrs
   EET 4653 Technology Administration 3 hrs
   EET 3543C or EET 3542 Applied Energy Systems 3 hrs
   EET 3418 or EET 3414 Applied Robotics 3 hrs
   EET 3220 or EET 3210 Applied Project Management 3 hrs
   EET 3191 or EET 3192 Applied Energy Systems 3 hrs

3. Engineering Technology Core Requirements (21 hrs)
   A. General Education Program (36+2 hrs)
   B. Gordon Rule (3 hrs)
   C. Upper Level Technical Electives (9 hrs)
   D. Departmental Graduation Requirement (3 hrs)
   E. Upper Level Required Courses (26 hrs)
   F. Elective Courses (6 hrs)
   G. Summer (9 hrs)
   H. Upper Level Technical Elective (12 hrs)

4. Technical Specialization (60 hrs)
   (C or better grades are required in all courses except lower level technical electives)
   a. Mechanical Technology Track
   b. Construction Technology Track

5. Departmental Graduation Requirement (3 hrs)
   (C or better grades are required in all courses)
   ETC 4950C Senior Design Project 3 hrs
UCF Degree Programs

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 hrs

Related Programs: Engineering Technology (Operations Concentration).
Related Minors: Interdisciplinary Informatics Technology

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 engineering technology degree requirements in four years. Many students choose to spread out these requirements over a longer period of time. All engineering technology students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

Engineering Technology – 128 semester hours required

Freshman Year
- Fall: ENC 1101 Composition I 13 hrs
  - MAC 1105 College Algebra 3
  - Biological science 3
  - Cultural/Historical Foundation 3
- Fall: SPC 1600 Oral Communications 3
  - PHY 2053C College Physics I 4
  - Cultural/Historical Foundation 3
  - or MAC 2312 Calculus II 3
- Summer: ETI 3116 App Eng Quality Assur 9 hrs
  - ENC 3241 Writing Tech Pros 3

Junior Year
- Fall: EET 3085C Electricity and Electro 16 hrs
  - Upper level elective 3
- Spring: Upper level elective 3

Senior Year
- Fall: EIT 3421 Materials & Processes 12 hrs
  - EST 4902C Sr Design Proj 3
- Spring: EST 4902C Sr Design Proj 3

I. Mechanical Technology Track
- Summer: EMT 4331C Appl Fluid Mech 7 hrs
- ETI 4448 Applied Proj Mgmt 3

Senior Year
- Fall: EST 4543C Prog Log Controllers 15 hrs
  - ETC 4241C Construction Mat & Meth 3
  - ETC 4414C Applied Structural Des I 3
  - ETI 4415C Applied Structural Des II 3
  - Upper level elective 3
- Spring: ETI 4415C Applied Structural Des II 3

II. Construction Technology Track
- Summer: EME 4412C Constr. Tech. 6 hrs
- ETI 4448 Applied Proj Mgmt 3

Senior Year
- Fall: EST 4543C Prog Log Controllers 15 hrs
  - ETC 4241C Construction Mat & Meth 3
  - ETC 4414C Applied Structural Des I 3
  - ETI 4415C Applied Structural Des II 3
- Spring: ETI 4415C Applied Structural Des II 3

Degree Requirements
- Students should check with their ENT advisor frequently to insure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (36+2 hrs)
A. Communication Foundations
   - 1. ENC 1101 & ENC 1102
   - 2. Prefer SPC 1016
B. Cultural and Historical Foundations
   - 1. Select MAC 1105
   - 2. Select STA 2223
   - 3. Social Foundations
   - 4. Science Foundations
   - 5. E. Science Foundations
2. Common Program Prerequisites (CPP) (6+8 hrs)
   - MAC 2253 Calculus I
   - or MAC 2311 Calculus w/Analytical Geometry I
   - or MAC 2254 Applied Calculus II or equiv
   - or MAC 2312 Calculus II
   - PHY 2053C College Physics I
   - or PHY 2048L Physics for Engrs & Scientists I
3. Engineering Technology Core Requirements (21 hrs)
   - ANT 2511, BSC 1005, BSC 1050, GRY 1030, GEO 1200 or MCB 1310
   - ENC 3241 Writing for the Technical Professional
   - MAC 1105 College Algebra
   - MAC 1114 College Trigonometry
   - MAC 2253 Applied Calculus I
   - or MAC 2254 Applied Calculus II
   - or MAC 2311 Calculus w/Analytical Geometry I
   - or MAC 2312 Calculus II
   - MAP 3401 Problem Analysis

Admission Requirements: none

ENGINEERING TECHNOLOGY - OPERATIONS CONCENTRATION (B.S.E.T.)
College of Engineering and Computer Science
Engineering Technology (ENT) Department
ENGR 207, 407-823-4742; Fax: 407-823-4746
http://www.ent.ucf.edu
Coordinator: Dr. Lucy Morse, E-mail: morse@mail.ucf.edu

2007-2008 Undergraduate Catalog
UCF Degree Programs

ENGINEERING TECHNOLOGY - SPACE SYSTEMS CONCENTRATION (B.S.E.T.)
College of Engineering and Computer Science
Engineering Technology (ENT) Department
http://www.ent.ucf.edu
Coordinator: Dr. Lucy Morse, 407-823-4742

Admission Requirements: none

Degree Requirements:
- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (36+2 hrs)
   - A. Communication Foundations: 9 hrs
     1. ENC 1101, ENC 1102
     2. Prefer SPC 1016
   - B. Cultural and Historical Foundations: 9 hrs
     1. Select MAC 1105
     2. Select STA 2023
   - C. Mathematical Foundations: 6 hrs
     1. Select MAC 1105
     2. Select STA 2023
   - D. Social Foundations: 6 hrs
   - E. Science Foundations: 8 hrs

2. UCF Transfer Evaluation Requirements:
- 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.

3. Tentative Course Schedule for the Operations Concentration:
The tentative course schedule listed below is a guide for those students who plan on completing their engineering technology degree requirements in four years. Many students choose to spread out these requirements over a longer period of time. All engineering technology students should meet with their faculty advisor to develop and maintain an appropriate plan of study.

   - Freshman Year
     - Fall: 15 hrs
       1. ENC 1101 Composition I 3 hrs
          2. ENC 1102 Composition II 3 hrs
     - Spring: 14 hrs
       1. MAC 1106 College Algebra 3 hrs
          2. STA 2023 Statistical Methods I 3 hrs
          3. MAC 2253 Applied Calculus I 3/4 hrs
          4. STA 2023 Statistical Methods 3 hrs
          5. STA 2023 Statistical Methods 3 hrs
     - Summer: 6 hrs
       1. ENC 1116 Compos II 3 hrs
       2. STA 2023 Statistical Methods 3 hrs
       3. STA 2023 Statistical Methods 3 hrs

   - Sophomore Year
     - Fall: 13/14 hrs
       1. MAC 2311 Calculus w/Analytical Geometry I 3 hrs
       2. STA 2023 Statistical Methods 3 hrs
       3. STA 2023 Statistical Methods 3 hrs
     - Spring: 12/13 hrs
       1. STA 2023 Statistical Methods 3 hrs
       2. STA 2023 Statistical Methods 3 hrs
       3. STA 2023 Statistical Methods 3 hrs

   - Junior Year
     - Fall: 16 hrs
       1. STA 2023 Statistical Methods 3 hrs
       2. STA 2023 Statistical Methods 3 hrs
       3. STA 2023 Statistical Methods 3 hrs
       4. STA 2023 Statistical Methods 3 hrs
     - Spring: 16 hrs
       1. STA 2023 Statistical Methods 3 hrs
       2. STA 2023 Statistical Methods 3 hrs

   - Senior Year
     - Fall: 15 hrs
       1. STA 2023 Statistical Methods 3 hrs
       2. STA 2023 Statistical Methods 3 hrs
       3. STA 2023 Statistical Methods 3 hrs
     - Spring: 14 hrs
       1. STA 2023 Statistical Methods 3 hrs
       2. STA 2023 Statistical Methods 3 hrs

4. Technical Specialization (60 hrs)
- (C or better grades are required in all courses except the lower level technical electives)
- Lower Level Required and Elective Courses (25 hrs)
  - EST 3543C Programmable Logic Controllers 3 hrs
  - SPC 1016 General Chemistry, Lab 4 hrs
  - CET 2364 Systems Application in C 3 hrs
  - EET 3085C Electricity and Electronics 4 hrs
  - STA 2023 Statistical Methods I 3 hrs
- Upper Level Required Courses (18 hrs)
  - EST 4502C Metrology & Instrumentation 4 hrs
  - ETI 3421 Materials & Processes 3 hrs
  - ETI 4205 Applied Logistics 3 hrs
- Upper Level Technical Elective (Select 5) (17 hrs)
  - CET 2310 Introduction to Information Technology 3 hrs
  - EST 3222 Introduction to Photonics 3 hrs
  - ETC 4XXXC Digital Cartography 3 hrs
- Engineering Technology (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.

5. Departmental Graduation Requirement (3 hrs)
- (C or better grades are required in all courses)
- 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.

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
- B. Cultural and Historical Foundations: 9 hrs
- C. Mathematical Foundations: 6 hrs
- D. Social Foundations: 6 hrs
- E. Science Foundations: 8 hrs

9. 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.)

10. Engineering Technology (Operations Concentration)
    - Freshman Year
      - Fall: 13 hrs
        1. ENC 1101 Composition I 3 hrs
        2. ENC 1102 Composition II 3 hrs
      - Spring: 13 hrs
        1. MAC 1106 College Algebra 3 hrs
        2. STA 2023 Statistical Methods I 3 hrs
        3. MAC 2253 Applied Calculus I 3/4 hrs
        4. STA 2023 Statistical Methods 3 hrs
    - Sophomore Year
      - Fall: 13/14 hrs
        1. STA 1600 Oral Communications 3 hrs
        2. STA 2023 Statistical Methods 3 hrs
        3. STA 2023 Statistical Methods 3 hrs
        4. STA 2023 Statistical Methods 3 hrs
      - Spring: 12/13 hrs
        1. STA 2023 Statistical Methods 3 hrs
        2. STA 2023 Statistical Methods 3 hrs
        3. STA 2023 Statistical Methods 3 hrs
        4. STA 2023 Statistical Methods 3 hrs
    - Junior Year
      - Fall: 16 hrs
        1. STA 2023 Statistical Methods 3 hrs
        2. STA 2023 Statistical Methods 3 hrs
        3. STA 2023 Statistical Methods 3 hrs
        4. STA 2023 Statistical Methods 3 hrs
      - Spring: 16 hrs
        1. STA 2023 Statistical Methods 3 hrs
        2. STA 2023 Statistical Methods 3 hrs
        3. STA 2023 Statistical Methods 3 hrs
        4. STA 2023 Statistical Methods 3 hrs
    - Senior Year
      - Fall: 15 hrs
        1. STA 2023 Statistical Methods 3 hrs
        2. STA 2023 Statistical Methods 3 hrs
        3. STA 2023 Statistical Methods 3 hrs
      - Spring: 14 hrs
        1. STA 2023 Statistical Methods 3 hrs
        2. STA 2023 Statistical Methods 3 hrs

11. University Minimum Graduation Requirements
- A. 2.0 UCF GPA
- B. Cultural and Historical Foundations: 9 hrs
- C. Mathematical Foundations: 6 hrs
- D. Social Foundations: 6 hrs
- E. Science Foundations: 8 hrs

12. 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.)
UCF Degree Programs

1. Select PHY 2053C or PHY 2048.
2. ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310.

2. Common Program Prerequisites (CPP) (6/8 hrs)
(C or better grades are required in all courses)

- MAC 2253 Calculus I 3 hrs
- or MAC 2311 Calculus w/Analytical Geometry I 3 hrs
- MAC 2254 Applied Calculus II or equiv 3 hrs
- or MAC 2312 Calculus w/Analytical Geometry II 3 hrs
- PHY 2053C College Physics I/Lab 2 hrs
- or PHY 2048L Physics for Engrs & Scientists I 3 hrs

3. Engineering Technology Core Requirements (21 hrs)

- ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310.
- ENC 3241 Writing for the Technical Professional 3 hrs
- MAC 1105 College Algebra 3 hrs
- MAC 1114 College Trigonometry 3 hrs
- MAC 2253 Applied Calculus I 3 hrs
- or MAC 2311 Calculus w/Analytical Geometry I 3 hrs
- MAP 3401 Problem Analysis 2 hrs
- or MAC 2312 Calculus w/Analytical Geometry II 3 hrs
- PHY 2053C College Physics I 2 hrs
- or PHY 2048L Physics for Engrs & Scientists I 3 hrs
- ETD 3350C Appl CAD 3 hrs
- ETI 3116 Applied Engineering Quality Assurance 3 hrs
- ETI 4448 Project Management 3 hrs

4. Technical Specialization (60 hrs)
(C or better grades are required in all courses except lower level technical electives)

Lower Level Required and Elective Courses (26 hrs)

- EST 3543C Prog Logic Controllers 3 hrs
- CHM 1032, 1032L General Chemistry with Lab 4 hrs
- CET 2364 Systems Appl. in C 3 hrs
- EET 3085C Electricity and Electronics 4 hrs
- AST 2002 Astronomy 3 hrs
- STA 2023 Statistical Methods I 3 hrs
- Approved Lower Level Technical Electives 9 hrs

Upper Level Required and Elective Courses (22 hrs)

- ETI 4635C Technology of Small Space Payloads 3 hrs
- ETD 3590C Applied CADD 3 hrs
- EMA 4033 Space Environment 3 hrs
- EMT 4220 Applied Energy Systems 4 hrs
- ETI 4838 Flight Dynamics Technology 3 hrs
- ETI 4835 Rocket Propulsion Technology 3 hrs
- EMA 4103 Space Systems Technology 3 hrs

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

- ETG 3533C Applied Engineering Strength of Materials 4 hrs
- EST 4502C Metrology & Instrumentation 4 hrs
- ETI 4150 Spacecraft QA and Testing 3 hrs
- ETI 4381 Ground System Design 3 hrs
- EST 3222 Intro to Photonics 3 hrs

5. Departmental Graduation Requirement (3 hrs)
(C or better grades are required in all courses)

- ETI 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 hrs

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 meet have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.
- ENT Departmental Residency Requirements consist of at least 32 semester hours of regularly scheduled 3000- or 4000-level courses taken from the UCF ENT Department.
- PHY 2048/L and 2049/L substitute for PHY 2053C and PHY 2054C respectively.

Tentative Course Schedule for the Space Systems Concentration

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

Freshman Year
Fall 13 hrs
- ENC 1101 Composition I 3 hrs
- MAP 3401 Problem Analysis 3 hrs
- MAC 2253 Applied Calc I 3 hrs
- STA 2023 Statistical Methods I 3 hrs
- Approved Lower Level Technical Electives 9 hrs

Spring 13 hrs
- ENC 1102 Composition II 3 hrs
- MAP 3401 Problem Analysis 3 hrs
- MAC 2253 Applied Calc I 3 hrs
- STA 2023 Statistical Methods I 3 hrs
- Approved Lower Level Technical Electives 9 hrs

Sophomore Year
Fall 15/16 hrs
- EMT 4220 Applied Energy Systems 4 hrs
- ETI 4838 Flight Dynamics Technology 3 hrs
- EMA 4103 Space Systems Technology 3 hrs
- ETI 4835 Rocket Propulsion Technology 3 hrs
- Upper Level Elective 3 hrs

Spring 15/16 hrs
- ETI 4838 Flight Dynamics Technology 3 hrs
- EMA 4103 Space Systems Technology 3 hrs
- ETI 4835 Rocket Propulsion Technology 3 hrs
- Upper Level Elective 3 hrs

Junior Year
Fall 16 hrs
- ETI 3116 Applied Engineering Quality Assurance 3 hrs
- EMT 4220 Applied Energy Systems 4 hrs
- ETI 4835 Rocket Propulsion Technology 3 hrs
- Upper Level Elective 3 hrs

Spring 15 hrs
- ETI 4838 Flight Dynamics Technology 3 hrs
- EMA 4103 Space Systems Technology 3 hrs
- ETI 4835 Rocket Propulsion Technology 3 hrs
- Upper Level Elective 3 hrs

Senior Year
Fall 13 hrs
- ETI 3116 Applied Engineering Quality Assurance 3 hrs
- EMT 4220 Applied Energy Systems 4 hrs
- ETI 4838 Flight Dynamics Technology 3 hrs
- EMA 4103 Space Systems Technology 3 hrs

Spring 13 hrs
- ETI 4835 Rocket Propulsion Technology 3 hrs
- EMT 4220 Applied Energy Systems 4 hrs
- ETI 4838 Flight Dynamics Technology 3 hrs
- EMA 4103 Space Systems Technology 3 hrs

Total Semester Hours Required 128 hrs
ENGLISH - CREATIVE WRITING (B.A.)
College of Arts and Humanities
English Department, CNH 301
http://english.ucf.edu
E-mail: english@ucf.edu
Contact: T. Krise, 407-823-2212

Admission Requirements
none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course.
- Co-op or internship credit cannot be used in the major without prior approval from the department.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

Honors in English Degree: Additional Requirements (9 hrs)
- Application and admission through the English Honors Committee and the Honors College.
- Fulfill University requirements for Honors in the Major.
- Grade of “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 ENC 1101 and ENC 1102
   B. Cultural and Historical Foundations
      Select one course from 1.B.1 list
      Prefer LIT 2110 World Literature I
      Prefer LIT 2120 World Literature II
   C. Mathematical Foundations
      Prefer MGF 1106 Finite Mathematics
      (may substitute a higher level math)
      Prefer STA 1060C Statistics Using Excel
      D. Social Foundations
      Social Foundations
      E. Science Foundations
      Science Foundations

2. Common Program Prerequisites
   ENC 1101* Composition I
   ENC 1102* Composition II
   *See Transfer Notes for possible substitutes

3. Core Requirements (6 hrs)
   CRW 3013 Creative Writing for English Majors
   CRW 3014 Theory & Tech of Literary Study
   This is a prerequisite for all 4000 level AML, ENG, ENL, or LIT courses

4. Literary History Requirement (12 hrs)
   a. Select at least one of these pre-1865 literature courses.
      AML 3031 American Literature I
      AML 3613 Narratives of Slavery
      AML 4304 Whitman & Hens
      ENL 2012 English Literature I
      ENL 4220 English Renaissance Poetry and Prose
      ENL 4230 Eighteenth Century Studies
      ENL 4240 English Romantic Writers
      ENL 4311 Chaucer
      ENL 4333 Shakespeare
      ENL 4341 Milton and His Age
      LIT 4374 Literature of the Bible
   b. Select at least one of these post-1865 literature courses
      AML 3041 American Literature II
      AML 3835 Contemp American Women’s Fiction
      AML 3614 Topics in African American Literature
      AML 3615 Harlem, Haiti, and Havana
      AML 3640 Native American Literature
      AML 4101 American Novel
      AML 4151 American Poetry at Mid-Century
      AML 4155 Modern American Poetry
      AML 4261 Literature of the South
      AML 4265 Florida Writers
      AML 4321 Modern American Literature
      AML 4630 Latino/Latina Literature

5. Restricted Electives (18 hrs)
   a. Choose one of the following: 
      3 hrs
      LIN 3010 Intro to Linguistics
      LIN 4105 History of the English Language
      LIN 4643 Cross Cultural Communication
      LIN 4680 Linguistics and Literature
      LIN 4690 Modern English Grammar
      ENC 3211 Theory and Practice of Tech Writing
      ENC 3241 Writing for the Technical Professional
      ENC 3310 Magazine Writing
      ENC 3311 Advanced Expository Writing
      ENG 3010 Practical Criticism
      LIT 4554 Advanced Feminist Theory
   b. Choose two of the following: 
      6 hrs
      CRW 3120 Fiction Writing Workshop
      CRW 3211 Creative Nonfiction Writing
      CRW 3310 Poetry Writing Workshop
      CRW 4122 Adv Comic Writing Workshop
      CRW 4224* Adv Creative Nonfiction Writing
      CRW 4320 Adv Poetry Writing Workshop
      *May take ENC 4360 instead of CRW 4224 but not both
   c. Choose one of the following: 
      3 hrs
      CRW 3311 Structure of Verse
      CRW 3610 Writing Scripts
      CRW 3540 Literary Magazines
      CRW 4114 History of Prose Style
      or any 3000 or 4000 CRW course not used to fulfill another requirement

6. Departmental Exit Requirements
   Maintain a minimum GPA of 2.0 in upper division required courses.
   Computer Competency met by completion of CRW 3013

7. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement.
   Graduation: Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies.
   Standardized examinations for foreign languages may be used to meet the requirement.
   With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

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

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

Total Semester Hours Required 120 hrs

Related Programs: Technical Writing, Literature
Related Minors: Linguistics, Technical Writing, Writing

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

Acceptable Substitutes for common program prerequisites to the
BA in Creative Writing if taken prior to transferring to UCF:
ENC 1101* & 1102*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement.
ENC 1101 & 1102, however, are prerequisites for all subsequent English courses and will need to be taken for the major.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall
ENC 1101 Composition I 3
HUM 2210* req# 1B1-GEP 3
MGF 1106* req# 1C1-GEP 3
POS 2041* req# 1D1-GEP 3
SPC 1000* req# 1A3-GEP 3

Spring

ENC 1102 Composition II 3
LIT 2110 World Literature I 3
STA 1060C Stat Using Excel 3
SPN 1120* req# Lang/Elec 4

Sophomore Year

Fall

BSC 105* req# 1E2-GEP 3
LIT 2120 World Lit II 3
PSY 2012* req# 1D2-GEP 3
Elective* Check restrictions 3
SPN 1121* req# Lang/Elec 4

Spring

ENG 3014 Theor Tech of St 3
ENL 2012* req# 4a-LitHis 3
CRW 3610* req# 5d-ResEl 3
Elective* Check restrictions 3

Junior Year

Fall

ENG 3014 Theor Tech of St 3
ENL 2022* req# 4b-LitHis 3
CRW 3211* req# 5b-ResEl 3
Elective* Check restrictions 3

Spring

ENG 3014 Theories of Literature 3
AML 3031* req# 4a-LitHis 3
CRW 4224* req# 5c-ResEl 3
Elective* Check restrictions 3

Senior Year

Fall

LIN 4105* req# 5a-ResEl 3
CRW 4122* req# 5c-ResEl 3
Elective* Check restrictions 3
Elective* Check restrictions 3

Spring

LIN 4105* req# 5a-ResEl 3
CRW 4122* req# 5c-ResEl 3
Elective* Check restrictions 3
Elective* Check restrictions 3

ENGLISH LANGUAGE ARTS EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209
http://pegasus.cc.ucf.edu/~enlang
Program Coordinator: Dr. Jeff Kaplan, ED 122B, 407-823-2041,
E-mail: jkaplan@mail.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e., an AA degree from an approved Florida community college or state university.
- Have a minimum 2.5 overall GPA.
- Pass all four parts of the General Knowledge Test and/or CLAST exam (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of “C-” (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements
- Students should see an advisor prior to registering for classes.
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- This is a state-approved, initial teacher preparation program designed in compliance with Florida Statutes and State Board of Education Rule 6A-5.066. Degree requirements are subject to change based on state mandates.

1. UCF General Education Program

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. ENC 1101 English Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>2. ENC 1102 English Composition II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>3. Select: UCC 1010 U.S. History 1492-1877</td>
<td>3 hrs</td>
</tr>
<tr>
<td>4. Select: UCC 2110 World Literature I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>5. Select: AMH 2020 U.S. History 1877-present</td>
<td>3 hrs</td>
</tr>
<tr>
<td>6. Mathematical Foundation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>7. Select: STA 1060C Basic Statistics using MS Excel or STA 1060C</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

2. Education Common Program Prerequisites

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Prefer: POS 2041 American National Government</td>
<td>3 hrs</td>
</tr>
<tr>
<td>2. Prefer: PSY 2012 General Psychology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>3. Science Foundation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>4. Prefer: PSC 1121 Physical Science</td>
<td>3 hrs</td>
</tr>
<tr>
<td>5. Prefer: ANT 2511 The Human Species or BSC 1005 Biological Principles</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Note: Students are advised to take the preferred courses.

3. Other Program Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. EDF 2130*                  Child &amp; Adolescent Development for Educators</td>
<td>3 hrs</td>
</tr>
<tr>
<td>2. LIT 2110                   World Literature I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>3. LIT 2120                   World Literature II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>4. ENL 2012                   English Literature I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>5. ENL 2022                   English Literature II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>6. EDF 4467                   Teaching Theory and Practice of Teaching ESOL</td>
<td>3 hrs</td>
</tr>
<tr>
<td>7. EEE 4074                   Teaching Exceptional Students in Sec Settings</td>
<td>3 hrs</td>
</tr>
<tr>
<td>8. RED 4043                   Content Reading Kindergarten through Gr 12</td>
<td>3 hrs</td>
</tr>
<tr>
<td>9. TSL 4161                   Issues in Second Language Acquisition</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**Prerequisite for Internship I**

4. Education Core Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. ENC 1101                   English Composition I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>2. EDF 4410*                  Teaching Strategies and Classroom Mgmt</td>
<td>3 hrs</td>
</tr>
<tr>
<td>3. EDF 4467                   Learning Theory and Assessment</td>
<td>3 hrs</td>
</tr>
<tr>
<td>4. EDF 4603                   Analysis and Applications of Ethical, Legal, and Safety Issues in Schools</td>
<td>3 hrs</td>
</tr>
<tr>
<td>5. TSL 4080**                 Theory and Practice of Teaching ESOL</td>
<td>3 hrs</td>
</tr>
<tr>
<td>6. EEX 4074                   Teaching Exceptional Students in Sec Settings</td>
<td>3 hrs</td>
</tr>
<tr>
<td>7. RED 4043                   Content Reading Kindergarten through Gr 12</td>
<td>3 hrs</td>
</tr>
<tr>
<td>8. TSL 4161                   Issues in Second Language Acquisition</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**Prerequisite for Internship I**

5. Specialization Requirements

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. EDF 3013                   Intro Creative Writing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>2. ENG 3014                   Theories of Literature</td>
<td>3 hrs</td>
</tr>
<tr>
<td>3. AML 3031                   American Literature I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>4. AML 3041                   American Literature II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>5. ENC 3311                   Advanced Expository Writing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>6. LAE 4361                   Literacy Strategies for Middle and High Schools</td>
<td>3 hrs</td>
</tr>
<tr>
<td>7. LAE 4464**                 Literacy Strategies for Secondary Schools</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**Community college transfer students may substitute a lower division English elective.**

6. Internship I Block

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. ESE 3940                   Internship I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>2. LAE 4360                   English Instructional Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>3. LAE 4342                   Teaching Language/Composition</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

**All methods courses and at least 80% of all specialization courses must be completed with a letter grade of “C-” (1.75) or better before registering for Internship II. However, a minimum GPA of...**
### 2.5 is required in the professional, specialization and overall for admission to Internship II.

- Students must apply and be approved for Internship II.
- Deadline dates and applications are available through the Office of Clinical Experiences at [http://www.clinicalexperiences.education.ucf.edu](http://www.clinicalexperiences.education.ucf.edu).
- 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-5.066.
- Passing score on the Subject Area Examination (English 6-12) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.

### 9. Departmental Exit Requirements
- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Complete a TESOL notebook as required for ESOL Endorsement.
- Pass all applicable sections of the Florida Teacher Certification Examination.

### 10. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 48 semester hours of upper division course work 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 120 hrs
Consult with your Education advisor and review your degree audit for more recent information.

### 12. Recommended Four Year Sequence of Courses

#### Freshman Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall (12 hrs)</th>
<th>Spring (12 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>EDF 2005 Introduction to Education 3</td>
<td>EDG 2701 Teaching Diverse Pop 3</td>
</tr>
<tr>
<td></td>
<td>ENC 1101 English Composition I 3</td>
<td>ENC 1102 English Composition II 3</td>
</tr>
<tr>
<td></td>
<td>MGF 1106 Finite Mathematics 3</td>
<td>POS 2041 Amer National Govt 3</td>
</tr>
<tr>
<td></td>
<td>PSY 2012 General Psychology 3</td>
<td>PSC 1121 Physical Science 3</td>
</tr>
<tr>
<td>Summer</td>
<td>(6 hrs)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>EME 2400 Tech for Educators 3</td>
<td>LIT 2110 World Literature I 3</td>
</tr>
</tbody>
</table>

#### Sophomore Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall (15 hrs)</th>
<th>Spring (12 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ANH 2100 U.S. History 1492-1877 3</td>
<td>AMH 2020 US History 1877-present 3</td>
</tr>
<tr>
<td></td>
<td>ANT 2511 The Human Species or BSC 1005 Biological Principles 3</td>
<td>ENL 2012 English Literature I 3</td>
</tr>
<tr>
<td></td>
<td>BSC 1005 Biological Principles 3</td>
<td>EDF 2139 Child &amp; Adoles Dev for Ed* 3</td>
</tr>
<tr>
<td></td>
<td>LIT 2120 World Literature II 3</td>
<td>AML 3031 American Literature I 3</td>
</tr>
<tr>
<td></td>
<td>SPC 1600 Fun of Oral Comm 3</td>
<td>STA 104C Principles of Statistic or STA 106C Basic Stat MS Excel 3</td>
</tr>
</tbody>
</table>

#### Summer (6 hrs)

- TSL 4080 Theory & Prac of Teach ESL 3
- Students in Schools ENL 2022 English Literature II 3

#### Junior Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall (15 hrs)</th>
<th>Spring (15 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>CRW 3013 Intro to Creative Writing 3</td>
<td>AML 3041 American Literature II 3</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Course</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>TSL 4141</td>
<td>Issues in Second Language Acquisition</td>
</tr>
<tr>
<td>EDF 4467</td>
<td>Learn Theory &amp; Assmnt</td>
</tr>
<tr>
<td>EDF 4410</td>
<td>Teach Strat &amp; Class Mgmt</td>
</tr>
<tr>
<td>LAE 4464</td>
<td>Intro to Adult Literature</td>
</tr>
<tr>
<td>ENC 3014</td>
<td>Theories of Literature</td>
</tr>
<tr>
<td>ESE 4943</td>
<td>Internship II 11 hrs</td>
</tr>
</tbody>
</table>

#### Senior Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Fall (12 hrs)</th>
<th>Spring (12 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>ESE 3940 Internship I 3</td>
<td>ESE 4943 Intern II 11</td>
</tr>
<tr>
<td></td>
<td>LAE 4380 Eng Instructional Anal 3</td>
<td>LAE 4342 Teach Lang/Composition 3</td>
</tr>
<tr>
<td></td>
<td>EEX 4074 Teach Ex Stud in Sec Settings 3</td>
<td></td>
</tr>
</tbody>
</table>

### ENGLISH - LITERATURE (B.A.)

**College of Arts and Humanities**

**English Department, CNH 301**

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

E-mail: english@ucf.edu

T. Krise, 407-823-2212

**Admission Requirements**

- none

**Degree Requirements**

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course.
- Co-op or internship credit is not accepted in the major.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

**Honors in English Degree:**

### Additional Requirements

Application and admission through the English Honors Committee and the Honors College

Fulfill University requirements for Honors in the Major

Grade of “B” (3.0) or better in 5000 level English electives (3 hrs), Directed Readings (3 hrs), and Thesis hours (3 hrs).

Successful completion and oral defense of honors thesis

1. **UCF General Education Program** (36 hrs)
   - A. Communication Foundations
     - Select ENC 1101 and ENC 1102 (6 hrs)
     - Prefer SPC 1600 Fund of Oral Corn (3 hrs)
   - B. Cultural and Historical Foundations
     - Select one class from 1.B.1 list (3 hrs)
     - Prefer LIT 2110 World Literature I (3 hrs)
     - Prefer LIT 2120 World Literature II (3 hrs)
   - C. Mathematical Foundations
     - Select MGF 1106 Finite Mathematics (3 hrs)
     - (may substitute a higher level math)
     - Prefer STA 1060C Statistics Using Excel (3 hrs)
   - D. Social Foundations (6 hrs)
   - E. Science Foundations (6 hrs)

2. **Common Program Prerequisites**
   - ENC 1101* Composition I
   - ENC 1102* Composition II
   - *See Transfer Notes for possible substitutes

3. **Core - Gateway Courses** (6 hrs)
   - a. Prerequisite for all 4000 level AML, ENG, ENL, or Lit courses
   - ENG 3014 Theory & Tech of Literary Study (3 hrs)
   - b. Choose one gateway course:
   - CRW 3013 Creative Writing for English Majors (3 hrs)
   - ENC 3211 Theory & Practice of Tech Writing

4. **Literary History Requirement** (15 hrs)
   - Choose five courses from the two groupings
     - a. Select at least two of these pre-1865 literature courses.
     - AML 3031 American Literature I
     - AML 2863 Narratives of Slavery
     - AML 4304 Whitman & Heirs
     - ENL 2012 English Literature I
     - ENL 4220 English Renaissance Poetry and Prose
U CF Degree Programs

ENL 4230 Eighteenth Century Studies
ENL 4240 English Romantic Writers
LIT 4374 Literature of the Bible
b. Select at least two of these post 1865 literature courses
AML 3041 American Literature II
AML 3283 Contemp American Women's Fiction
AML 3614 Topics in African American Literature
AML 3615 Harlem, Haiti, and Havana
AML 3640 Native American Literature
AML 4101 American Novel
AML 4153 American Poetry at Mid-Century
AML 4155 Modern American Poetry
AML 4261 Literature of the South
AML 4265 Florida Writers
AML 4321 Modern American Literature
AML 4620 Latino/Latina Literature
ENL 2022 English Literature II
ENL 4101 English Novel
ENL 4253 The Victorian Age: Poetry
ENL 4262 Nineteenth Century British Prose
ENL 4273 Modern British Literature
LIT 3062 Continental European Fiction Since 1900
LIT 3192 Caribbean Literature
LIT 4043 Modern Drama as Literature
LIT 4184 Irish Literature
LIT 4303 Post-World War II Fiction

Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

5. Upper Division Requirements (15 hrs)

a. Choose one single author or major author course

Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

5a. AML 3040 Major American Authors
AML 3071 American Women’s Fiction
ENL 3040 Nineteenth Century British Prose
ENL 3184 Modern British Literature
ENL 3285 American Culture since 1900
ENL 4101 American Novel
ENL 4153 American Poetry at Mid-Century
ENL 4155 Modern American Poetry
ENL 4261 Literature of the South
ENL 4265 Florida Writers
ENL 4321 Modern American Literature
ENL 4620 Latino/Latina Literature
ENL 4673 Modern British Literature

b. Choose at least two of the following upper division courses

ENG 3010 Practical Criticism
LIN 3010 Principles of Linguistics
LIN 4105 History of the English Language
LIN 4643 Cross Cultural Communication
LIN 4660 Linguistics and Literature
LIN 4680 Modern English Grammar
LIN 4754 Advanced Feminist Theory
LIT 2110 World Literature I
LIT 3383 Modern American Literature
LIT 4155 Modern American Poetry
LIT 4364 African American Literature
LIT 4453 Post-World War II Fiction
LIT 4554 Advanced Feminist Theory

Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

6. Departmental Exit Requirements

Maintain a minimum GPA of 2.0 in upper division required courses. Computer competency met by completion of ENG 3014.

7. Foreign Language Requirements

Admission: Met by graduation requirement
Graduation: Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

8. Electives

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 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 hrs

Related Programs: Creative Writing, Technical Writing
Related Minors: Creative Writing, 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 Literature if taken prior to transferring to UCF:

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

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall
- ENL 1101 Composition I 3
- HUM 2210* req# 1B-GEN 3
- MGF 1105* req# 1C-GEN 3
- POS 2041* req# 1D-GEN 3
- ENC 1102 Composition II 3
- LIT 2110 World Literature I 3
- STA 1060C Stat Using Excel 3
- LIT 2120 World Literature II 3

Spring
- ENL 2012* req# 4a-Hist 3
- ENL 2022* req# 4b-Hist 3
- CRW 3013* req# 3-Core 3
- AML 3031* req# 4a-Hist 3
- AML 3041* req# 4b-Hist 3
- AML 3051* req# 4c-Hist 3

Sophomore Year

Fall
- ENL 3010 Practical Criticism 3
- LIN 3010 Principles of Linguistics 3
- LIN 4105 History of the English Language 3
- LIN 4643 Cross Cultural Communication 3
- LIN 4660 Linguistics and Literature 3
- LIN 4680 Modern English Grammar 3

Spring
- ENL 4101 American Novel 3
- ENL 4152 American Poetry at Mid-Century 3
- ENL 4333 Shakespeare 3
- AML 4101 American Novel 3
- AML 4153 American Poetry at Mid-Century 3
- AML 4155 Modern American Poetry 3

Junior Year

Fall
- CRW 3013* req# 3-Core 3
- ENL 2012* req# 4a-Hist 3
- ENL 2022* req# 4b-Hist 3
- LIN 4105* req# 5b-GEN 3

Spring
- ENL 3010 Practical Criticism 3
- LIN 3010 Principles of Linguistics 3
- LIN 4105 History of the English Language 3
- LIN 4643 Cross Cultural Communication 3
- LIN 4660 Linguistics and Literature 3
- LIN 4680 Modern English Grammar 3

Senior Year

Fall
- AML 4101* req# 4a-Hist 3
- AML 4253* req# 5c-GEN 3
- AML 4300* req# 4a-Hist 3
- AML 4300* req# 4b-Hist 3

Spring
- AML 4101* req# 4a-Hist 3
- AML 4253* req# 5c-GEN 3
- AML 4300* req# 4a-Hist 3
- AML 4300* req# 4b-Hist 3

ENGLISH - TECHNICAL WRITING (B.A.)

College of Arts and Humanities

English Department, CNH 301
http://english.ucf.edu
E-mail: english@ucf.edu
Contact: T. Krise, 407-823-2212

Admission Requirements: none

Degree Requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF English Department.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

Honors in English Degree: Additional Requirements (9 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 (6 hrs)
   - Select ENC 101, ENC 102

B. Cultural and Historical Foundations (9 hrs)
   - Select: English, History, Literature
   - Select: U.S. History, World History

C. Mathematical Foundations (6 hrs)
   - STA 1060C Statistics Using Excel

D. Social Foundations (6 hrs)
   - Select: Sociology, Psychology, Political Science

2. Common Program Prerequisites (3 hrs)
   - ENC 4414 Writing and Hypertext

3. Core courses - Basic (6 hrs)
   - Choose one of the following:
     - ENC 3211 Theory & Practice of Technology Writing
       OR
     - ENC 3241 Writing for the Technical Professional
   - Choose one of the following:
     - ENC 4014 Theory & Practice of Technology Writing
       OR
     - CRW 3013 Creative Writing for English Majors

4. Literary History Requirement (9 hrs)
   - Choose three courses from these two groupings:
     a. Select at least one of these pre-1865 literature courses:
        - AML 3031 American Literature I
        - AML 3631 Topics in African American Literature
        - AML 3640 Native American Literature
        - AML 4201 American Novel
        - AML 4153 American Poetry at Mid-Century
        - AML 4155 Modern American Poetry
        - AML 4261 Literature of the South
        - AML 4265 Florida Writers
        - AML 4321 Modern American Literature
        - AML 4630 Latin/Other Literature
        - ENL 2022 English Literature I
        - ENL 4010 English Novel
        - ENL 4255 The Victorian Age: Poetry
        - ENL 4273 Modern British Literature
        - LT 3082 Continental European Fiction Since 1900
        - LT 3192 Caribbean Literature
        - LT 4043 Modern Drama as Literature
        - LT 4184 Irish Literature
        - LT 4303 Post-World War II Fiction
     b. Select at least one of these post 1865 literature courses:
        - AML 3041 American Literature II
        - AML 3293 Contemporary American Women’s Fiction
        - AML 3614 Topics in African American Literature
        - AML 3615 Harlem, Haiti, and Havana
        - AML 3640 Native American Literature
        - AML 4201 American Novel
        - AML 4153 American Poetry at Mid-Century
        - AML 4155 Modern American Poetry
        - AML 4261 Literature of the South
        - AML 4265 Florida Writers
        - AML 4321 Modern American Literature
        - AML 4630 Latin/Other Literature
        - ENL 2022 English Literature I
        - ENL 4010 English Novel
        - ENL 4255 The Victorian Age: Poetry
        - ENL 4273 Modern British Literature
        - LT 3082 Continental European Fiction Since 1900
        - LT 3192 Caribbean Literature
        - LT 4043 Modern Drama as Literature
        - LT 4184 Irish Literature
        - LT 4303 Post-World War II Fiction
   - Note: Each semester, additional courses may satisfy this requirement. Check with advisor for details.

5. Core requirements-Advanced (18 hrs)
   - ENC 4280 Technical Writing Style
   - ENC 4293 Documentation and Collaborative Process
   - ENC 4294 Documentation and Client-Based Collaboration
   - ENC 4295 Capstone Experience in Technical Writing
   - ENC 4296 Technical Writing Style
   - LT 4333 Literature of Science and Technology

And choose one of the following:
   - ENC 4215 Technical Publication and Project Management
   - ENC 4218 The Visual in Technical Communication

6. Restricted Upper Division Electives (3 hrs)
   - Choose one of the following:
     - ENC 3311 Advanced Expository Writing
     - ENC 4262 International Technical Communication
     - ENC 4265 Writing for the Computer Industry
     - ENC 4290 Usability Testing for Technical Communication
     - ENC 4414 Writing and Hypertext

Optional course
   - ENC 4941 Tech Writing & Editing Internship

7. Departmental Exit Requirements
   - Maintain a minimum GPA of 2.0 in upper division required courses
   - Computer Competency met by completion of ENC 4293

8. Foreign Language Requirements (0-8 hrs)
   - Admission: Met by graduation requirement
   - Graduation: Proficiency equivalent to three semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. With departmental approval, a cultural/multicultural or related course offered by the Department of English may be used to satisfy one semester of the Graduation requirement.

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

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

Total Semester Hours Required: 120 hrs

Related Programs: Creative Writing, Literature, Linguistics, Technical Writing, Writing

Transfer Notes:
   - Courses taken at community colleges do not substitute for Upper Division courses
   - Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information
   - Acceptable Substitutes for common program prerequisites to the BA in Technical Writing if taken prior to transferring to UCF:
     - ENC 1101 & 1102*: may use any two lower level courses, taught in the English Department, and each having a 6,000 word requirement. However, ENC 1101 & 1102 are prerequisites for all subsequent English courses and will need to be taken for the major.

ENVIRONMENTAL ENGINEERING (B.S.Env.E.)

College of Engineering and Computer Science
Civil & Environmental Engineering Department (CEE)
ENG2 211, 407-823-2841; Fax: 407-823-3315
http://www.cee.engr.ucf.edu

Undergraduate Coordinator and Academic Advisor: Carol Ann Pohl, E-Mail: cpohl@mail.ucf.edu; Associate Chair: Shiou-San Kuo, Ph.D., P.E., E-Mail: kuos@mail.ucf.edu; Environmental Program Coordinator: C. David Cooper, Ph.D., P.E., E-Mail: cooper@mail.ucf.edu

Admission Requirements: none

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

UCF Degree Programs
UCF Degree Programs

A. Communication Foundations 9 hrs
   1. ENC 1101 & ENC 1102
   2. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs
   1. Select two courses from Historical Foundations
   2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1000, REL 2300,
   PHI 2010, LIT 2110, or LIT 2120

C. Mathematical Foundations 7 hrs
   1. Select MAC 2311 (PR: MAC 1144)
   2. Select STA 2023 (PR: MAC 2312)

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

E. Science Foundations 7 hrs
   1. Select PHY 2048/48L (PR: MAC 2311)
   2. Prefer GEO 1200
   (Note: Environmental Engineering Majors must satisfy both an Earth Science requirement and a Biological Science requirement).

2. Common Program Prerequisites (CPP's) (19 hrs)
   These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.
   ECHM 2045C/45L Chemistry Fundamentals I 4 hrs
   or CHS 1440 Fund of Chemistry for Engineers
   MAC 2311 Calculus with Analytic Geometry I 4 hrs
   MAC 2312 Calculus with Analytic Geometry II 4 hrs
   MAC 2313 Calculus with Analytic Geometry III 4 hrs
   MAP 2302 Differential Equations 3 hrs
   PHY 2048/48L Physics for Engineers & Scientists I GEP
   PHY 2049/49L Physics for Engineers & Scientists II 4 hrs
   ENC 1101 Composition I GEP
   ENC 1102 Composition II GEP
   Humanities Courses GEP
   Social Science Courses GEP
   Humanities or Social Sciences GEP

3. Courses Required for the Major (57 hrs)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with technical elective courses listed in 4., below and with the senior design courses listed in 5., below.
   Independent study courses generally do satisfy major requirements and normally are awarded grades of I, S, or U.
   EGN 1006C Intro to the Engineering Profession 1 hr
   EGN 1007C Engineering Concepts & Methods 1 hr
   CHM 2045C Chemistry Fundamentals I w/ Lab CPP
   CHM 2046/46L Chemistry Fundamentals II w/Lab 4 hrs
   Earth Science GEP
   Biological Science 3 hrs
   EGN 3310 Engineering Analysis - Statics 3 hrs
   EGN 3321 Engineering Analysis - Dynamics 3 hrs
   EGN 3331 Mechanics of Materials 3 hrs
   EGN 3343 Thermodynamics 3 hrs
   EGN 3613 Engineering Economic Analysis 2 hrs
   EGN 3373 Principles of Electrical Engineering 3 hrs
   CCE 4003 Intro to the Construction Industry 3 hrs
   ENV 3001 Intro to Environmental Engineering 3 hrs
   STA 3032 Probability & Statistics for Engineers GEP
   CWR 3201 Engineering Fluid Mechanics 3 hrs
   CWR 4101C Hydrology 3 hrs
   CWR 4203C Hydraulics 3 hrs
   EES 4111C Biological Process Control 3 hrs
   EES 4202C 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

   Note: Environmental engineering majors must complete both Earth Science and Biological Science coursework. See assigned academic advisor for list of approved courses.

4. Approved Technical Electives (8 hrs)
   Technical electives are available in the BSEnVE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)
   • Approved EnVe Design Course I 3 hrs
   • Approved EnVe Design Course II 3 hrs
   Earn a minimum graduating GPA of 2.250 in the Major Courses from item 3., above, the technical electives from item 4., above, and the Approved EnVe Design Courses.
   • EnVe students must take the Fundamentals of Engineering 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 (if applicable).

Total Semester Hours Required: 128 hrs

Related Programs: Chemistry, Civil Engineering, Construction Engineering.

Related Minors: Chemistry, Environmental Studies, Mathematics, Engineering Leadership.

Transfer Notes:
• Courses taken from Community Colleges do not substitute for Upper Division Courses unless part of an articulated pre-engineering degree program.
• Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.

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

Environmental Engineering - 128 semester hours required

FIRST YEAR
   Fall 14 hrs
   ENC 1101 English Comp I 3
   ENC 1102 English Comp II 3
   MAC 2311 Calc w/Analy Geo I 4
   MAC 2312 Calc w/Analy Geo II 4
   ECO 2013 Macroeconomics 3
   ECO 2023 Microeconomics 3
   *Biological Science 3
   EGN 1006C Intro to Engr 1

   Spring 15 hrs
   EGN 1007C Eng Conc & Meth 3
   EGN 3301 Thermodynamics 3
   EGN 3343 Thermodynamics 3
   EGN 3373 Principles of Electrical Engineering 3
   EGN 3331 Mechanics of Materials 3
   EGN 3613 Engineering Economic Analysis 2 hrs
   EGN 3373 Principles of Electrical Engineering 3 hrs
   CCE 4003 Intro to the Construction Industry 3 hrs
   ENV 3001 Intro to Environmental Engineering 3 hrs
   STA 3032 Probability & Statistics for Engineers 3 hrs
   CWR 3201 Engineering Fluid Mechanics 3 hrs
   CWR 4101C Hydrology 3 hrs
   CWR 4203C Hydraulics 3 hrs
   EES 4111C Biological Process Control 3 hrs
   EES 4202C 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

   SECOND YEAR
   Fall 16 hrs
   *MAC 2313 Calc w/Analy Geo III 4
   *CHM 2045C Chemistry Funds I 4
   *HUM/AMH/EUH II 4
   EGN 3310 Eng Anal-Statics 3
   EGN 3363 Engring Econ Anal 2
   Summer 9 hrs
   *SFC 1016 Tech Presentations 3
   EGN 3343 Thermodynamics 3
   ENV 3001 Intro to Environ Eng 3

   Spring 17 hrs
   *MAC 2314 Calc w/Analy Geo IV 4
   *CHM 2046/46L Chem Fund II/Lab 4
   *HUM/AMH/EUH II 4
   *PHY 2048/48L Phys Engr I/II 4
   *Earth Science 3
   EGN 3301 Thermodynamics 3
   EGN 3331 Mechanics of Materials 3
   EGN 3613 Engineering Economic Analysis 2 hrs
   EGN 3373 Principles of Electrical Engineering 3 hrs
   CCE 4003 Intro to the Construction Industry 3 hrs
   ENV 3001 Intro to Environmental Engineering 3 hrs
   STA 3032 Probability & Statistics for Engineers 3 hrs
   CWR 3201 Engineering Fluid Mechanics 3 hrs
   CWR 4101C Hydrology 3 hrs
   CWR 4203C Hydraulics 3 hrs
   EES 4111C Biological Process Control 3 hrs
   EES 4202C 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

   THIRD YEAR
   Fall 15 hrs
   CWR 3201 Engr Fluid Mech 3
   EGN 3311 Mech of Materials 3
   STA 3032 Problty/Stats for Eng 3
   ENV 4120 Air Pollution Control 3
   ENV 4341 Solid/Haz Waste 3
   EES 4111C Biological Process Control 3
   CWR 4003 Intro to Constr Indus 3
   CWR 4101C Hydrology 3
   CWR 4203C Hydraulics 3
   ENR 4341 Solid/Haz Waste 3
   CCE 4003 Intro to Constr Indus 3
   EGN 3373 Prim Elec Eng 3

   FOURTH YEAR
   Fall 13 hrs
   Spring 14 hrs
Four Year Plan of Study for Event Management*  
*Plan your required nine summer credit hours into your course of study.

Freshman Year  
Fall  
HFT 2403  Hospitality Financial Accounting  3 hrs  
HFT 2503  Hospitality Marketing  3 hrs  
HFT 2220  Hospitality Human Resources  3 hrs  
HFT 2254  Lodging Operations  3 hrs  
HFT 3431  Hospitality Managerial Accounting  3 hrs  
HFT 3540  Guest Services Management  3 hrs  
HFT 4286  Hospitality Communications  3 hrs  
HFT 4462  Hospitality Industry Finance  3 hrs  
HFT 3933  Distinguished Hospitality Lectures  1 hr  
Total  15 hrs  
Spring  
ENC 1101  3 hrs  
Cul/Hist Found Seq. I  3 hrs  
CGS 2100C  3 hrs  
HFT 1000  3 hrs  
PSY 2012, SYG 2000, or ANT 2000  3 hrs  
Total  15 hrs  

Sophomore Year  
Fall  
HFT 3940  Internship I  1 hr  
HFT 4941  Internship II  1 hr  
HFT 4942  Internship III  1 hr  
Total  15 hrs  
Spring  
Science Found I  3 hrs  
ECC 2013 or ECO 2023  3 hrs  
HFT 2500  3 hrs  
HFT 3443 Event Tech  3 hrs  
HFT 3670 HosEvnt Risk  3 hrs  
Total  15 hrs  

Junior Year

Notes:  
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.  
2. EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The credits for these two courses (one hour each) may, with prior approval of the department academic advisor, be moved to the area 4. Approved Technical Electives.  
3. Restricted electives at UCF.  
4. A minimum of 30 semester hours must be completed at UCF.  
5. A 2.0 UCF GPA  
6. A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted  
7. Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)  
8. Community/Junior College Transfer Notes  
9. Foreign Language Requirements  
10. University Minimum Exit Requirements  
11. Unrestricted Electives  
12. As necessary to result in 120 total credit hours.

Total Semester Hours Required  
120 hrs

EVNET MANAGEMENT (B.S.)  
Rosen College of Hospitality Management  
9907 Universal Boulevard  
Orlando, Florida 32819  
407-903-8000  
E-mail: hospitality@mail.ucf.edu  
http://www.hospitality.ucf.edu  
Dean: Abraham Pizam  

Degree Requirements  
1. UCF General Education Program (GEP) (36 hrs)  
A. Communication Foundations  9 hrs  
B. Cultural and Historical Foundations  9 hrs  
C. Mathematical Foundations  9 hrs  
Select MAC 1105 College Algebra  3 hrs  
Select CGS 2100C Computer Fundamentals or Bus or STA 2023 Statistical Methods I  3 hrs  
D. Social Foundations  6 hrs  
Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics  3 hrs  
Select one: PSY 2012, SYG 2000, ANT 2000  3 hrs  
E. Science Foundation  6 hrs  
2. Common Program Degree Requirements (3 hrs)  
HFT 1000  Introduction to Hospitality Management  3 hrs  
3. Foundations  
Quantitative Tools  
CGS 2100C  Computer Fundamentals of Business (GEP)  3 hrs  
or STA 2023  Statistical Methods I  3 hrs  
ECO 2013  Macroeconomics (GEP)  3 hrs  
or ECO 2023  Microeconomics  3 hrs  
MAC 1105  College Algebra  3 hrs  
4. Hospitality Management Core (25 hrs)  
HFT 2403  Hospitality Financial Accounting  3 hrs  
HFT 2503  Hospitality Marketing  3 hrs  
HFT 2220  Hospitality Human Resources  3 hrs  
HFT 2254  Lodging Operations  3 hrs  
HFT 3431  Hospitality Managerial Accounting  3 hrs  
HFT 3540  Guest Services Management  3 hrs  
HFT 4286  Hospitality Communications  3 hrs  
HFT 4462  Hospitality Industry Finance  3 hrs  
HFT 3933  Distinguished Hospitality Lectures  1 hr  
5. Internship (3 hrs)  
HFT 3940  Internship I  1 hr  
HFT 4941  Internship II  1 hr  
HFT 4942  Internship III  1 hr  
6. Event Management Core (27 hrs)  
HFT 2750  The Event Industry  3 hrs  
HFT 3670  Hospitality & Event Risk Management  3 hrs  
HFT 3512  Event Promotion  3 hrs  
HFT 3443  Event Technology  3 hrs  
HFT 3792  Event Design & Production  3 hrs  
FSS 2211C  Quantity Food Production  3 hrs  
HFT 4652  Catering Management  3 hrs  
HFT 4757  Event Management I  3 hrs  
HFT 4791  Event Management II  3 hrs  
7. Special College Requirements:  
Final exams will be given during Final Exam Week only.  
Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management core classes or restricted electives at UCF.  
8. Restricted Electives (15 hrs)  
Choose any courses from the list below for a total of 15 credit hours  
HFT 3741  Meeting Management  3 hrs  
HFT 4754  Exhibit and Trade Show Operations  3 hrs  
HFT 3511  Convention Sales  3 hrs  
HFT 4753  Convention Services  3 hrs  
HFT 4756  Entertainment Arts and Events  3 hrs  
HFT 3798  Fairs and Festivals  3 hrs  
HFT 4561  Destination Marketing  3 hrs  
HFT 4736  Destination Management  3 hrs  
HFT 4796  International Events  3 hrs  
HFT 4375  Advanced Trade Show Management  3 hrs  
9. Foreign Language Requirements (0-8 hrs)  
State University System foreign language admission requirement:  
two years in high school or one year of college instruction in a single  
foreign language. (This requirement applies to those students admitted  
to the University without the required two units of foreign lan- 
guage in high school.)  
10. University Minimum Exit Requirements  
A. A 2.0 UCF GPA  
B. 48 semester hours of upper division credit completed  
C. 30 of the last 36 hours of course work must be completed in res- 
idency at UCF  
D. A minimum of 45 hours of extension, correspondence, CLEP, 
Credit by Exam, and Armed Forces credits permitted  
E. Completion of the General Education Program, the Gordon Rule, 
the CLAST, and nine semester hours of Summer credit (if applicable)  
11. Unrestricted Electives (3-11 hrs)  
As necessary to result in 120 total credit hours.  
Total Semester Hours Required  
120 hrs
EXCEPTIONAL STUDENT EDUCATION (B.S.)

College of Education
Department of Child, Family and Community Sciences
ED 209
http://www.education.ucf.edu/

Program Coordinator: Dr. María E. Blanes, ED 315-M, 407-823-5445, E-mail: mblanes@mail.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university.
- Have a minimum 2.5 overall GPA.
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of “C-” (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements
- Students should seek advising through the Exceptional Education faculty prior to registering for classes.
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- This is a state-approved, initial teacher preparation program designed in compliance with Florida Statutes and State Board of Education Rule 6A-5.066. Degree requirements are subject to change based on state mandates.
- Passing scores on ALL three applicable sections of the Florida Teacher Certification Examination. See www.fldoe.org for available test dates and test sites.
  - FTCE General Knowledge Test (GKT) – (if CLAST was used for admission) passing score on the GKT is strongly recommended during Semester 1 of the junior year.
  - FTCE Professional Education Test (PED).
  - FTCE Subject Area Examination for Exceptional Student Education K-12.
  - In order to be highly qualified, you must take and pass a content area subject area examination.
- Students must earn a “C-” or better in each required Exceptional Education course.

1. UCF General Education Program (36 hrs)

A. Communication Foundation (9 hrs)
1. ENC 1101 English Composition I 3 hrs
2. ENC 1102 English Composition II 3 hrs
3. Prefer: SPC 1104 Introduction to Oral Communication 3 hrs

B. Cultural-Historical Foundation (9 hrs)
1. Prefer: AMH 2010 United States History 1492-1865 3 hrs
2. Prefer: LIT 2110 World Literature I, or LIT 2120 World Literature II, or PHI 2010 Introduction to Philosophy, or REL 2300 World Religion 3 hrs
3. Prefer: AMH 2020 U.S. History 1877-present 3 hrs

C. Mathematical Foundation (6 hrs)
1. Prefer: MGF 1106 Finite Mathematics 3 hrs
2. Prefer: STA 1060C Basic Statistics using MS Excel or STA 2023C Principles of Statistics 3 hrs

D. Social Foundation (6 hrs)
1. Prefer: POS 2041 American National Government 3 hrs
2. Prefer: PSY 2012 General Psychology 3 hrs

E. Science Foundation (6 hrs)
1. Prefer: PSC 1121 Physical Science 3 hrs

2. Prefer: ANT 2511 The Human Species or BSC 1005 Biological Principles 3 hrs

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)

EDF 2005 Introduction to Education 3 hrs
EDG 2701 Teaching Diverse Populations 3 hrs
EME 2040 Technology for Educators 3 hrs

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (15 hrs)

EDF 2130* Child and Adolescent Development for Educators 3 hrs
EDF 2720* Children in Schools: Legal, Ethical And Safety Concerns 3 hrs
EEX 2758* Enhancing Family Involvement in Education 3 hrs
MAE 2801 Elementary School Mathematics 4 hrs

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Exceptional Education Program Recommended Sequence of Required Courses

Exceptional Education majors take a variety of courses related to children, adolescents, and adults with special needs, and their learning, development, and family environment. Students majoring in Exceptional Education take a series of core and specialization courses to prepare them to teach in the schools and to demonstrate the Florida Educator Accomplished Practices (FEAP). Early and continuous field experiences are provided to enhance the Exceptional Education major’s program and to integrate theory and practice in actual school settings. Throughout the Exceptional Education program, students document and reflect upon their accomplishments in a Professional Portfolio, which is continuously reviewed by faculty.

Semester I (12 hrs)
- EEDG 4410* Teaching Strategies and Classroom Management 3 hrs
- EEX 3241* Methods of Academic Skills for Exceptional Students 3 hrs
- RED 3012* Basic Foundations of Reading 3 hrs
- TSL 4080* Theory and Practice of Teaching ESL Students 3 hrs

Semester II (15 hrs)
- EDF 4467 Learning Theory and Assessment 3 hrs
- EEX 3243* Methods for Exceptional Adolescents and Adults 3 hrs
- LAE 4314 Language Arts in Elementary School 3 hrs
- TSL 4141 Issues in Second Language Acquisition 3 hrs

Methods Content Area Course I – Select one from:
- SSE 3319 Teaching Science in the Elementary School 3 hrs
- SSE 3312 Teaching Social Science in the Elementary School 3 hrs
- LAE 3414 Literature for Children 3 hrs

Semester III (Summer) (6 hrs)
- EEX 3221 Assessment of Exceptional Students 3 hrs
- EEX 4066 Curriculum, Theory & Instructional Strategies for Students with Special Needs 3 hrs

- Please note: It is strongly recommended to take the Professional Education Test (PED) portion of the FTCE during Semester II.

Semester IV (15 hrs)
- EEX 3942 Internship I 3 hrs
UCF Degree Programs

College of Arts and Humanities
Film, COMM 121, 407-823-4285
http://www.film.ucf.edu
E-mail: film@mail.ucf.edu
Division Head: S. Schlow, 407-823-2845

Admission Requirements
Limited Access
The Film BFA major is a limited access program.

Applications to become a Film BFA major are required by
December 15 for admission to the subsequent Fall term

A portfolio review is required for entry into the Film BFA major.
Contact the Film Division for details or visit the website,

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.

A maximum of six credit hours of internship may be earned in
one semester. A total of six credit hours of internship may be
earned within the 120 credit hours required for graduation.

Students must consult with a departmental advisor each
1. UCF General Education Program (36 hrs)

A. Communication Foundations
   - 9 hrs

B. Cultural and Historical Foundations
   - Prefer one class from 1.B.1 list
   - 3 hrs
   - Prefer FIL 2400
   - 3 hrs
   - Prefer one class from either 1.B.1 or 1.B.2
   - 3 hrs

C. Mathematical Foundations
   - Select MGF 1106 (may substitute a higher level math)
   - 3 hrs
   - (may substitute a higher level math)
   - Prefer CGS 1060C or STA 1060C
   - 3 hrs

D. Social Foundations
   - 6 hrs

E. Science Foundations
   - 6 hrs

2. Common Program Prerequisites (3 hrs)

   FIL 2400* History of the Motion Pictures GEP
   - 3 hrs

   FIL 1007 Foundations of Story
   - 3 hrs

   *See Transfer Notes for possible substitutions

3. Lower Level Core Requirements (18 hrs)

   FIL 2107 Script Analysis
   - 3 hrs

   FIL 1009 Cinematic Expression for Majors
   - 3 hrs

   FIL 2274C Editing I
   - 3 hrs

   FIL 2480 Directing I
   - 3 hrs

   FIL 2200 Cinematography I
   - 3 hrs

   FIL 2481 Directing the Actor for Film I
   - 3 hrs

4. Upper Level Core Requirements (42 hrs)

   DIG 3001 Digital Media Principles
   - 3 hrs

   FIL 3124 Short Script I
   - 3 hrs

   FIL 3201C Intro to Film Production
   - 3 hrs

   FIL 3534 Sound Design for Film I
   - 3 hrs

   FIL 3401 Film History I
   - 3 hrs

   FIL 3402 Film History II
   - 3 hrs

   FIL 3503C Film Theory and Criticism I
   - 3 hrs

   FIL 3922 Film Colloquium
   - 6 hrs

   (Six semesters of Colloquium required at 1 hr each)

   FIL 4486C Directing II
   - 3 hrs

   FIL 4604 The Film Producer
   - 3 hrs

   FIL 4607 Film Production Management
   - 3 hrs

   Select one course:
   - 3 hrs

   FIL 3125 Short Script II
   - 3 hrs

   FIL 4111C Feature/TV Writing
   - 3 hrs

5. Upper Level Restricted Electives (12 hrs)

   Select four courses from the following. Must complete all core requirements before taking these courses. A maximum of six hours of Independent Study may be substituted with advisor's prior approval.

   Production/Direction
   - FIL 3300C Film Documentary
   - FIL 3625 Interactive Entertainment
   - FIL 4210C Cinematography II
   - FIL 4535C Sound Design for Film II
   - FIL 4213 Sound Design for Film III
   - FIL 4223 Design for Film
   - FIL 4487 Directing III
   - FIL 4294C Editing II

   Screen Writing
   - FIL 4103 Adaptation
   - FIL 4112C Feature/TV Writing II
   - FIL 4113C Interactive Writing I
   - FIL 4114C Interactive Writing II
   - FIL 4506C Genre Writing
   - FIL 4906 Independent Study

   Cinema Studies
   - FIL 3309 Women in Film
   - FIL 3412 Black Cinema
   - FIL 3418 Avant-Garde Cinema
   - FIL 3504C Film Theory and Criticism II
   - FIL 3511 French New Wave Cinema
   - FIL 3512 Italian Neo-Realist Cinema
   - FIL 3513 Latin American Cinema
   - FIL 3520 Italian Film
   - FIL 3521 French Film
   - FIL 3522 German Film
   - FIL 3551 American Cinema
   - FIL 3XXX American Film Artist
   - FIL 4XXX Film Theory Film/Production

   Digital Cinema
   - ART 2820 Art as Interface
   - ART 3618C Post-Production Design
   - COP 3502C Computer Science I
   - DIG 3855 Converging Media
   - DIG 3135C Digital Imagination
   - DIG 4780 Modeling for Realtime Graphics
   - ENC 4415 Digital Rhetoric & Modern Dialectic
   - DIG 3134C Internet Software Design
   - MUC 3311 MIDI Sequencing I

6. Capstone Courses (6 hrs)

   FIL 4203C Capstone I
   - 3 hrs

   FIL 4211C Capstone II
   - 3 hrs

7. Departmental Exit Requirements

   A student must maintain an overall average of “B” (3.0) or better in major courses.
   - Computer competency met by CGS 1060C or STA1060C.
   - Department of Film requires taking an exit examination.

8. Foreign Language Requirements (0-8 hrs)

   Admission: Met by graduation requirement

   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)

   Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

10. University Minimum Exit Requirements

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

Total Semester Hours Required: 120 hrs

Related Programs: 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 2400 may substitute FIL 1000, but FIL 2400 is a prerequisite for subsequent Film courses and still must be taken.
- FIL 1007 may use any introductory film writing course. However, FIL 1007 is a prerequisite for all major courses and must be taken.
FILM - CINEMA STUDIES TRACK (B.A.)

College of Arts and Humanities
Film, COMM 121, 407-823-4285
http://www.film.ucf.edu
E-mail: film@mail.ucf.edu
Division Head: S. Schlow, 407-823-2845

Admission Requirements

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students are required to maintain an overall average of "B" (3.0) or better in major courses.
- Film production/directing classes are not open to Cinema Studies majors.
- Cinema Studies Track is not an entree into the BFA Film Program.
- Co-op or internship credit cannot be used in this major.
- Students must consult with a departmental advisor each semester.
- Departmental Residency Requirement consists of at least 48 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Division.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations
   - Prefer one course from 1.B.1 list 3 hrs
   - Prefer FIL 2400
   - Prefer one course from 1.B.1 or 1.B.2 list 3 hrs
C. Mathematical Foundations
   - Select MGF 1106 (may substitute a higher level math) 3 hrs
   - Prefer CGS 1060C
   - STA 1060C
D. Social Foundations 6 hrs
E. Science Foundations 6 hrs

2. Common Program Prerequisites (3 hrs)

   FIL 2400 History of the Motion Pictures GEP 3 hrs
   *See Transfer Notes for possible substitutes

3. Core Requirements (48 hrs)

   DIG 3001 Digital Media Principles 3 hrs
   FIL 1008 Cinematic Expression/Aesthetics 3 hrs
   FIL 2107 Script Analysis 3 hrs
   FIL 2423 Foundations of Production 3 hrs
   FIL 3006 Art of the Cinema 3 hrs
   FIL 3102 Writing for Film and TV or 3 hrs
   FIL 3124 Short Script 3 hrs
   FIL 3252C Cinematic Expression 3 hrs
   FIL 3300C Film Documentary 3 hrs
   FIL 3401 Film History I 3 hrs
   FIL 3402 Film History II 3 hrs
   FIL 3418 Avant-Garde Cinema 3 hrs
   FIL 3503C Film Theory and Criticism I 3 hrs
   FIL 3504C Film Theory and Criticism II 3 hrs
   FIL 3510 World Cinema Traditions 3 hrs
   FIL 3511 American Cinema 3 hrs
   FIL 4604 The Film Producer 3 hrs

4. Restricted Upper Division Electives (9 hrs)

   Select three courses from the following upper level FIL courses:
   DIG 3855 Converging Media
   FIL 3209 Cinema Director
   FIL 3309 Women in Film
   FIL 3410 History of Animated Films
   FIL 3412 Black Cinema
   FIL 3511 French New Wave Cinema
   FIL 3512 Italian Neo-Realist Cinema
   FIL 3513 Latin American Cinema
   FIL 3514 International Cinema
   FIL 3520 Italian Film
   FIL 3521 French Film
   FIL 3522 German Film
   FIL 3542 Cinema Criticism (writing)
   FIL 3625 Interactive Entertainment
   FIL 3XXX American Film Artist

5. Required Minor (18 hrs min)

   Must be taken outside the Film Department.

6. Departmental Exit Requirements

   - A student must maintain an average overall of "B" (3.0) or better in major courses.
   - Computer competency met by CGS1060 or STA1060C.

7. Foreign Language Requirements (0-8 hrs)

   Admission: Met by graduation requirement.
   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)

   Select primarily from upper division courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements

   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in 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 LAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hrs

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 Substitutions for Common Program Prerequisites

   - FIL2400 may substitute FIL 1000, but FIL 2400 is a prerequisite for subsequent Film courses and still must be taken.
   - 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 Humanities
Film, COMM 121, 407-823-4285
http://www.film.ucf.edu
E-mail: film@mail.ucf.edu
Division Head: S. Schlow, 407-823-2845

Admission Requirements

   Limited Access
   - The Film-World Cinema track is a limited access program.
   - Students must 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.

All students are required to pay for equipment insurance.

Departmental residency requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Film Department.

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

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations
      Prefer one course from 1.B.1 list 3 hrs
      Prefer FIL 2400 3 hrs
   C. Mathematical Foundations
      Prefer MGF 1106 (may substitute a higher level math) 3 hrs
      Prefer CGS 1060C or STA 1060C 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 1007* Foundations of Story 3 hrs
   *See Transfer Notes for possible substitutions

3. Core Requirements (57 hrs)
   DIG 3001 Digital Media Principles 3 hrs
   FIL 1009 Cinematic Expression for Majors 3 hrs
   FIL 2107 Script Analysis 3 hrs
   FIL 2200 Cinematography I 3 hrs
   FIL 2480 Directing I 3 hrs
   FIL 2274C Editing I 3 hrs
   FIL 2124 Short Script I 3 hrs
   FIL 3201C Introduction to Film Production 3 hrs
   FIL 3534 Sound Design for Film I 3 hrs
   FIL 3300C Film Documentary 3 hrs
   FIL 3304C Documentary Vision 3 hrs
   FIL 3307 Doctudrama 3 hrs
   FIL 3401 Film History I 3 hrs
   FIL 3503C Film Theory and Criticism I 3 hrs
   FIL 3510 World Cinema Traditions 3 hrs
   FIL 4301C Documentary Workshop I 3 hrs
   FIL 4302C Documentary Workshop II 3 hrs
   FIL 4602 Film Business 3 hrs
   FIL 4607 Film Production Management 3 hrs

4. Upper Level Restricted Electives (9 hrs)
   Select three of the following
   FIL 3300 Documentary Field Production
   FIL 3504C Film Theory and Criticism II
   FIL 3513 Latin American Cinema
   FIL 4564 Africana Cinema
   FIL 4574 Images & Text in Context
   FIL 4604 The Film Producer
   Additional courses may be acceptable. Consult your advisor.

5. Capstone (6 hrs)
   FIL 4203C Capstone I 3 hrs
   FIL 4211C Capstone II 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 CGS 1060C or STA 1060C.
   Department of Film requires a passing grade on an exit examination.

7. Foreign Language Requirements (0-8 hrs)
   Admission: Met by graduation requirement.
   Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Foreign Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (Variable)
   Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

9. University Minimum Exit Requirements
   A 2.0 UCF GPA
   60 semester hours earned after CLEP awarded

48 semester hours of upper division credit completed
30 of the last 36 hours of course work must be completed in residence at UCF
A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.
Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable).

Total Semester Hours Required 120 hrs

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, International and Global Studies

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

Acceptable Substitutes for Common Program Prerequisites
FIL 2400 may substitute FIL 1000, but FIL 2400 is a prerequisite for subsequent Film courses and still must be taken.
FIL 1007 may use any introductory Film writing course. However FIL 1007 is a prerequisite for all major courses and must be taken

FINANCE (B.S.B.A.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu/finance

Admissions Requirements
Completion of the UCF General Education Program or an AA degree from a Florida public community college
See Common Program Prerequisites

Degree Requirements
1. UCF General Education Program (36 hrs)
   A. Communications Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      Select MAC 2233 and STA 2023 will be waived
   D. Social Foundations
      Select ECO 2013 or ECO 2023 3 hrs
      Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
   E. Science Foundations
      Select one: 3 hrs

2. Common Program Prerequisites (18-21 hrs)
   Must be completed with a “C” (2.0) or better.
   ACG 2021 Principles of Financial Accounting
   ACG 2071 Principles of Managerial Accounting
   ECO 2013 Principles of Macroeconomics
   ECO 2023 Principles of Microeconomics
   ECO 3401 Quantitative Business Tools I
   CGS 2100C Computer Fundamentals for Business
   *If UCF, students who have completed MAC 2233 and STA 2023 will be waived from ECO 3401. Students who have not completed both classes with a “C” (2.0) or better must take ECO 3401.

3. Required for All Business Majors (36 hrs)
   First or subsequent semester in the College of Business Administration:
   GEB 3031 Cornerstone (Required in 1st or 2nd semester)
   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 Information Systems
   MAR 3023 Marketing
   Last Semester:
   MAN 4720 Strategic Management

4. Special College and/or Department Requirements
Students who change degree programs and select this major must adopt the most current catalog.
Foreign Language Requirements (0-8 hrs)

- Must be accepted into the UCF Honors in the Major Program. See details.

Electives (variable)

- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable) for details.

Restricted Electives (6 hrs)

- Students must earn at least a 2.0 GPA in the major and CBA.

6. Restricted Electives (6 hrs)

Select two of the following:

ACG 3361 Intermediate Managerial Accounting 3 hrs
ACG 3131 Financial Accounting Concepts 3 hrs
TAX 4001 Federal Income Tax I 3 hrs
RMI 3011 Principles of Risk and Insurance 3 hrs
REE 4303 Real Estate Investment Analysis 3 hrs
REE 4004 International Financial Management 3 hrs

2.0 UCF GPA

- 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)

- Total Semester Hours Required 120 hrs

Transfer Notes

- Courses taken at community colleges do not substitute for upper division courses.

- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.

- 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.

- 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 - FINANCE

Freshman

1st Term 15 hrs 2nd Term 15 hrs
ENC 1101 3 ENC 1102 3
Cult-Hist I 3 Cult-Hist II 3
SPC 1600 3 Art/Music/Lit 3
MAC 1105 3 Elective*** 3

Sophomore

1st Term 15 hrs 2nd Term 15 hrs
MAC 3356 3 ISM 3101 3
Mar 3023 4 FIN 3504 3
FIN 4003 3 FIN 4453 3
FIN 4533 3 FIN 3403 3

Junior

1st Term 16 hrs 2nd Term 17 hrs
GEB 3356 4 GEB 3356 4
FIN 3414 3 FIN 3414 3
FIN 3504 3 FIN 3504 3
FIN 3403 4 FIN 3403 4

Senior

1st Term 14 hrs 2nd Term 13 hrs
BUL 3130 4 BUL 3130 4
ISM 3101 4 ISM 3101 4
FIN Elective 3 FIN Elective 3
FIN Elective 3 FIN Elective 3
FIN Elective 3 FIN Elective 3
**General electives as required to reach 120 semester hours. The department recommends completing FIN 2104 (Personal Finance) as a general elective, prior to the junior year.
FOREIGN LANGUAGE EDUCATION - FRENCH (B.S.)

College of Education

Department of Teaching and Learning Principles, ED209
http://www.education.ucf.edu/

Program Coordinator: Dr. Karen Verkler, ED 220L, 407-823-5235,
E-mail: kverkler@mail.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e., an AA degree from an approved Florida community college or state university.
- Have a minimum 2.5 overall GPA.
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of “C-” (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements
- Students should see an advisor prior to registering for classes.
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.

1. UCF General Education Program (36 hrs)
   A. Communication Foundation (9 hrs)
   1. ENC 1101 English Composition I 3 hrs
   2. ENC 1102 English Composition II 3 hrs
   3. Prefer SPCC 1600 Fundamentals of Oral Communication 3 hrs
   B. Cultural-Historical Foundation (9 hrs)
   1. Prefer: AMH 2010 U.S. History 1492-1877 3 hrs
   2. Prefer: PHI 2100 Introduction to Philosophy 3 hrs
   3. Prefer: AMH 2020 U.S. History 1877-present 3 hrs
   C. Mathematical Foundation (3 hrs)
   1. Prefer: MGF 1106 Finite Mathematics 3 hrs
   2. Prefer: STA 100C Basic Statistics using Excel or TAA 100C Principles of Statistics 3 hrs
   D. Social Foundation (6 hrs)
   1. Prefer: POS 2041 American National Government 3 hrs
   2. Prefer: PSY 2022 General Psychology 3 hrs
   E. Science Foundation (6 hrs)
   1. Prefer: PSC 1121 Physical Science 3 hrs
   2. Prefer: ANT 2511 The Human Species or BSC 1005 Biological Principles 3 hrs
   Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)
   EDF 2005 Introduction to Education 3 hrs
   EDF 2701 Teaching Diverse Populations 3 hrs
   EME 2040 Technology for Educators 3 hrs
   Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (6 hrs)
   EDF 2130* Child and Adolescent Development for Educators 3 hrs
   FRE 2201* Intermediate French Language and Civilization II 3 hrs
   *Preferential FRE 2200 can be satisfied by FL proficiency test or CLEP test, or successful completion of FRE 2201.

**Transfer Notes:** Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Education Core Requirements (18 hrs)
   EDF 4410*** Teaching Strategies and Classroom Management 3 hrs
   EDF 4467*** Learning Theory and Assessment 3 hrs
   TSL 4080 Theory and Practice of Teaching ESL 3 hrs
   RED 4043 Content Reading Kindergarten through Grade 12 3 hrs
   EEX 4047* Teaching Exceptional Students in Secondary Settings 3 hrs
   EDF 4603 Analysis and Applications of Ethical, Legal, and Safety Issues in Schools 3 hrs
   **Required prior to Internship I.
   #Community College transfer students may substitute EEX 2010 Introduction to Special Education.

5. Internship I (3 hrs)
   ESE 3940 Internship I 3 hrs
   **Program Internship I Prerequisites: EDG 4410, EDF 4467, FLE 4314, FRE 4422, and at least 50% of all required foreign language courses must be completed before doing Internship I with a minimum grade of “C-” or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.

6. Specialization Requirements (33 hrs)
   FLE 4343* Foreign Language Teaching in the Sec School 3 hrs
   FLE 4344* Foreign Language Teaching in Elem Schools 3 hrs
   FLE 3320 French Grammar 3 hrs
   FLE 3340 French Composition 3 hrs
   FLE 3360 Advanced French Oral Composition 3 hrs
   FW 3100 Survey of French Literature I 3 hrs
   FW 3101 Survey of French Literature II 3 hrs
   FW 4421 Advanced French Conversation 3 hrs
   FRW 4422 Advanced French Composition 3 hrs
   Upper division restricted electives 6 hrs
   (FRE/FRW 3/4XXX with advisor’s consent)**

**Note:** The following courses may be taken in place of FRE 4421 and FRE 4422:
FRE 4310## Advanced Oral French Abroad 3 hrs
FRE 4323## Advanced French Grammar Abroad 3 hrs
**Required prior to Internship I.
##Community college transfer students may substitute lower division restricted division electives, see advisor.

7. Other Cognate Requirements (3 hrs)
   FSE 3780 French Phonetics and Diction 3 hrs

**Note:** At least 80% of all required foreign language courses and all methods courses must be completed with a letter grade of “C-” (1.75) or better before registering for Internship II. All methods courses and at least 80% of all specialization courses must be completed with a letter grade of “C-” (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.

8. Internship II Block (12 hrs)
   ESE 4943 Internship II 11 hrs
   ESE 4942 Internship II Secondary Seminar 1 hr
   **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-5.066.

9. Foreign Language Requirements (4-8 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
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF
- 25% of course work must be completed in residency at UCF
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

12. Total Program Semester Hours Required 120 hrs
Consult with your Education advisor and review your degree audit for more recent information.

13. Recommended Four Year Sequence of Courses

Freshman Year
Fall (12 hrs)
- EDF 2005 Intro to Education 3
- ENC 1101 English Composition I 3
- MGF 1106 Finite Mathematics 3
- TSL 4080 Theory & Practice of Teaching ESOL 3
- EEX 4074 Teach Ex Stud in Sec Settgs 3
- STA 1060C Basic Stat MS Excel 3
- PHI 2010 Intro to Philosophy 3
- ESE 3940 Internship I 3
- ESE 4942 Intern II Sec Seminar 1
- Summer (3 hrs)
  - EME 2040 Technology for Educators 3

Sophomore Year
Fall (15 hrs)
- AMH 2010 U.S. History 1492-1877 3
- EDF 2130 Child and Adoles Dev Ed* 3
- SPC 1600 Fund of Oral Comm 3
- STA 2014C Principles of Statistics or 3
- STA 1060C Basic Stat MS Excel 3
- EEX 4074 Teach Ex Stud in Sec Settgs 3
*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

Summer (3 hrs)
- TSL 4080 Theory & Prac of Teach 3
- SPN 3234 Advanced Directed Readings may be taken in place of SPN 2201 with 3

Junior Year
Fall (15 hrs)
- EDF 4467 Learn Theory & Asmnt 3
- EDG 4410 Teach Strat & Class Mgmt 3
- EDF 2005 Introduction to Education 3
- EDF 3565 Child & Adoles Dev Ed* 3
- FLE 4331 For Lang Tch in Elem Sch 3
- FLE 4603** Anal & Appl of Eth, Legal, & Safe Issues in Schools 3

Spring (15 hrs)
- EDG 4410*** Teaching Strategies and Classroom Management 3
- EDG 4410 Intermt Spanish Language and Civilization II 3
- FLE 3565 Child & Adoles Dev Ed* 3
- FLE 4333 For Lang Tch in Sec Sch 3
- FLE 4603** Anal & Appl of Eth, Legal, & Safe Issues in Schools 3

Senior Year
Fall (12 hrs)
- ESE 3940 Internship I 3
- ESE 4942 Adv French Convers 3
- Two upper division restricted electives 6
(FRE/PRW 34XXX)

Spring (12 hrs)
- ESE 3940 Internship II 3
- ESE 4942 Adv French Convers 3
- ESE 4942 Intern II Sec Seminar 1

**This course may be taken in the Fall of the senior year with consent of Instructor.

FOREIGN LANGUAGE EDUCATION - SPANISH (B.S.)

College of Education
Department of Teaching and Learning Principles, ED 209 http://www.education.ucf.edu/

Program Coordinator: Dr. Karen Verkler, ED 220L, 407-823-5235, E-mail: kverkler@mail.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of “C-“ (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements
- Students should see an advisor prior to registering for classes.
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- This is a state-approved, initial teacher preparation program designed in compliance with Florida Statutes and State Board of Education Rule 6A-5.066. Degree requirements are subject to change based on state mandates.

1. UCF General Education Program (36 hrs)
A. Communication Foundation
   - 1. ENC 1101 English Composition I 3 hrs
   - 2. ENC 1102 English Composition II 3 hrs
   - 3. Prefer SPC 1600 Fundamentals of Oral Communication 3 hrs
B. Cultural-Historical Foundation
   - 1. Prefer: AMH 2010 U.S. History 1492-1877 3 hrs
   - 2. Prefer: PHI 2010 Introduction to Philosophy 3 hrs
C. Mathematical Foundation
   - 1. Prefer: MGF 1106 Finite Mathematics 3 hrs
   - 2. Prefer: STA 1060C Basic Statistics using MS Excel or 3 hrs
D. Social Foundation
   - 1. Prefer: POS 2014 American National Government 3 hrs
   - 2. Prefer: PSY 2012 General Psychology 3 hrs
E. Science Foundation
   - 1. Prefer: PSC 1121 Physical Science 3 hrs
   - 2. Prefer: ANT 2511 The Human Species or 3 hrs
   - 3. Prefer: BSC 1005 Biological Principles

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)
   - EDF 2005 Introduction to Education 3 hrs
   - EDG 2701 Teaching Diverse Populations 3 hrs
   - EME 2040 Technology for Educators 3 hrs

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (6 hrs)
   - EDF 2130 Child and Adolescence Development for Educators 3 hrs
   - EDF 4467*** Learning Theory and Assessment 3 hrs
   - SPN 2201* Intermediate Spanish Language and Civilization I 3 hrs
   - SPN 3234 Advanced Directed Readings may be taken in place of SPN 2201 with advisor’s consent. Prerequisite SPN 2200 can be satisfied by FL proficiency or CLEP test, or successful completion of SPN 2201 or SPN 3234.

**Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Education Core Requirements (18 hrs)
   - EDG 4410*** Teaching Strategies and Classroom Management 3 hrs
   - EDG 4467*** Learning Theory and Assessment 3 hrs
   - TSL 4080 Theory and Practice of Teaching ESOL 3 hrs
   - RED 4043 Content Reading in Kindergarten through Grade 12 3 hrs
   - EEX 4074 Teaching Exceptional Students in Secondary Education 3 hrs
   - EDF 4603 Analysis and Applications of Ethical, Legal, and Safety Issues in Schools 3 hrs

***Required prior to Internship I.

#Community College transfer students may substitute EEX 2010 Introduction to Special Education.

- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.
- Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.
5. Internship I
(3 hrs)
| ESE 3940 Internship I | 3 hrs |
- Program Internship I Prerequisites: EDG 4410, EDF 4467, FLE 4314, FLE 4333, and at least 50% of all required foreign language courses must be completed before doing Internship I with a minimum grade of "C-" or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.
- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.

6. Specialization Requirements
(27 hrs)
| FLE 4333*** For Lang Tch in the Secondary School | 3 hrs |
| FLE 4314*** For Lang Tch in the Elementary School | 3 hrs |
| SPN 3300 Advanced Spanish Grammar and Composition | 3 hrs |
| SPN 3420 Spanish Composition | 3 hrs |
| SPN 3760 Advanced Spanish Oral Communication | 3 hrs |
| SPW 3100## Survey of Spanish Literature I | 3 hrs |
| SPW 3101## Survey of Spanish Literature II | 3 hrs |
| SPN 3344 Advanced Spanish Native Fluency I | 3 hrs |
| SPN 3345 Advanced Spanish Native Fluency II | 3 hrs |

**Required prior to Internship I

#The following courses may be taken in place of SPW 3100 and SPW 3101:

###Required prior to Internship I

- Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.

7. Upper Division Restricted Electives*
(6 hrs)
Select two upper division Spanish courses (SPN 3/4XXX) 6 hrs with advisor's consent. The following courses are recommended:

- SPN 4410 Advanced Spanish Conversation
- SPN 4421 Advanced Spanish Composition
- SPN 4510 Spanish Civilization and Culture
- SPN 4520 Latin American Civilization and Culture

Any 4000-level Spanish literature course

Community college transfer students may substitute lower division restricted electives.

8. Other Cognate Requirements
(3 hrs)
Select one of the following:
- SPN 3852 Bilinguismo or
- SPN 4800 Spanish American Syntax or
- SPN 4801 Spanish Morphosyntax

At least 80% of all required foreign language courses and all methods courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.

Passing score on the Subject Area Examination (Spanish K-12) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.

Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.

9. Internship II Block
(12 hrs)
| ESE 4943 Internship II | 11 hrs |
| ESE 4942 Internship II Secondary Seminar | 1 hr |
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-5.096.

10. 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.)

11. 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.

12. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in 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)

13. Total Semester Hours Required
- 120 hrs
Consult with your Education advisor and review your degree audit for more recent information.

14. Recommended Four Year Sequence of Courses

**Freshman Year**

<table>
<thead>
<tr>
<th>Fall</th>
<th>(12 hrs)</th>
<th>Spring</th>
<th>(12 hrs)</th>
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<tr>
<td>EDF 2130 Child and Adol Dev Ed*</td>
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<td>EEX 4074 Teach Ex Stud in Sec Settings</td>
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<tr>
<td>SPN 4801 Spanish Morphosyntax</td>
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<td>PHI 2010 Intro to Philosophy</td>
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**Sophomore Year**

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<tr>
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<td>AMH 2020 US History 1877-present</td>
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<tr>
<td>SPN 3760 Adv Span Oral Comm</td>
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<td>EDG 4467 Learn Theory &amp; Assess</td>
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<td>SPN 3760 Adv Span Oral Comm</td>
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<td>SPN 3345 Adv Span Native Fluenc II</td>
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<tr>
<td>SPWN 3100## Survey of Spanish Literature I</td>
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<td>SPW 3101## Survey of Spanish Literature II</td>
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<td>STA 1024C Principles of Statistics</td>
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<td>SPWN 3130 Survey of Latin American Ltr I</td>
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**Junior Year**

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<td>SPN 4800 Spanish American Syntax</td>
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| SPN 4801 Spanish Morphosyntax | 3 | **This course may be taken in the Fall of the senior year with consent of Instructor.**

**Senior Year**

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<td>ESE 4940 Intern I</td>
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<td>SPW 3131 Survey of Latin American Ltr II</td>
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<td>SPW 3100 Survey of Latin Am Lit II</td>
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FORENSIC SCIENCE-ANALYSIS TRACK (B.S.)

College of Sciences
Department of Chemistry, CH 329, 407-823-6205
http://www.cos.ucf.edu/chemistry
E-mail: chemistry@ucf.edu
Contact: B. Fookes

Admission Requirements

None

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry.
- Co-op credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Students must complete categories 2 (Common Program Prerequisites) and 3 (Core science and math) below and achieve a minimum 2.5 cumulative GPA in categories 2 and 5 prior to enrolling in the program described in categories 4 and 5.
- Students must maintain a minimum 2.5 cumulative GPA in categories 4 and 5 to continue in the major.
- Individual course prerequisites for enrollment in courses selected to complete categories 4 and 5 will be enforced without exception.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program

(36+3 hrs)
(Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36)

A. Communication Foundations
   1. Select ENC 1101 and ENC 1102 (6 hrs)
   2. Prefer SPC 1016 (3 hrs)
B. Cultural and Historical Foundations
   9 hrs
C. Mathematical Foundations
   1. Select MAC 2311 (4 hrs)
   2. Select STA 2023 (3 hrs)
   3. Select STA 2023 (3 hrs)
   4. Select STA 2023 (3 hrs)
   5. Select STA 2023 (3 hrs)
D. Social Foundations
   6 hrs
E. Science Foundations
   1. Select PHY 2048 & L (PR: MAC 2311) (4 hrs)
   2. Select BSC 2010C (4 hrs)

2. Common Program Prerequisites

(16 hrs)

BSC 2010C = Biology I
CHM 2045C+ = Chemistry I
CHM 2046L = Chemistry II with Lab
MAC 2311 = Calculus w/ Anal Geometry I
MAC 2312 = Calculus w/ Anal Geometry II
PHY 2048L* = Physics Engr. & Sci. I & Lab
PHY 2049L* = Physics Engr. & Sci. II & Lab

*See Transfer Notes for possible substitutes

+CHM 2040C plus CHM 2041C can substitute for CHM 2045C

3. Core Science and Math Requirements

(18 hrs)

BSC 2010C = Biology I
CHM 2210 = Organic Chem. I
CHM 2211L = Organic Chem II & lab
CHM 3120L = Analytical Chemistry & Lab
STA 2023 = Statistical Methods I
PCB 3083 = Genetics
PCB 3233 = Immunology
MAC 2311 = Calculus w/ Anal Geometry I
MAC 2312 = Calculus w/ Anal Geometry II
PHY 2048L = Physics Engr. & Sci. I & Lab
PHY 2049L = Physics Engr. & Sci. II & Lab

4. Forensic Science Core

(18 hrs)

CHS 3501 = Intro to Forensic Science
CHS 3505C = Forensic Microscopy
CHS 4537 = Forensic Lab Quality Assurance
CHS 3595 = Forensic Sci in the Courtroom
CHS 3553 = Forensic Biochemistry I
CHS 4591 = Forensic Science Internship

5. Forensic Analysis Track

(27 hrs)

a. Required Courses
   (15 hrs)
   CHM 3422 = Applied Physical Chemistry
   CHM 4130 = Advanced Analytical Chemistry
   CHS 3511C = Trace Evidence

b. Select 12 hours from the following:
   (12 hrs)
   ANT 4521C = Forensic Anthropology
   BCH 4053 = Biochemistry I
   CHM 3212L = Organic Lab Techniques II
   CHM 4912 = Undergraduate Research
   CHS 4506C = Forensic Investigating Techniques
   CHS 4515C = Forensic Crime Scene Investigation
   CHS 4547C = Advanced Topics in Trace Evidence
   PCB 3063L = Genetics Lab
   PCB 3233L = Immunology Lab

Substitutions require prior approval by the department

6. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each course used to satisfy categories 2, 3, 4, and 5 of the degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 2 and 3 of the departmental degree requirements.
- Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 4 and 5 of the departmental degree requirements.
- Computer Competency met by CHS 3505C and CHS 4537.
- American Board of Criminalists (ABC) exit exam must be taken prior to graduation, or an exit exam specified by the department.
- The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in Residence at UCF.
- Before applying to graduate, the CLAST must be completely satisfied.

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 hrs

Related Programs: Chemistry, Forensic Biochemistry Track
Related Minors: Chemistry

Transfer Notes:
- Lower Division 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 or CHM 2040C plus CHM 2041C
  - MAC 2311* & 2312*: Although MAC 2353 & 2354 will satisfy the CPP, MAC 2311 & 2312 are required in the major and still must be taken.
  - PHY 2048 & Lab* and 2049 & Lab*: Although CPP requirements permit substitution by Organic Chemistry (CHM 2210 & 2211), PHY 2048 & L. PHY 2049 & L. CHM 245, and CHM 2046 are required for graduation, so all must be taken.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.
FORENSIC SCIENCE-BIOCHEMISTRY TRACK (B.S.)

College of Sciences
Department of Chemistry, CH 223, 407-823-0163
http://www.cos.ucf.edu/chemistry/
E-mail: chemistry@ucf.edu
Contact: J. Ballantyne

Admission Requirements: none

Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement consists of at least 30 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Chemistry.
- Co-op or internship credit cannot be used in this major.
- Students who change 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 described in categories 4 and 5.
- Students must maintain a minimum 2.5 cumulative GPA in categories 4 and 5 to continue in the major.
- Individual course prerequisites for enrollment in courses selected to complete categories 4 and 5 will be enforced without exception.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36+3 hrs)
(Note: Certain courses must be selected in the GEP for this major, which brings the GEP hours above 36)

   A. Communication Foundations
   1. Select ENC 1101 and ENC 1102
   2. Prefer SPC 1016
   B. Cultural and Historical Foundations
   1. Select MAC 2311
   2. Select STA 2023
   C. Mathematical Foundations
   D. Social Foundations

   2. Common Program Prerequisites

   (16 hrs)

   - BSC 2010C Biology I
   - CHM 2045C* Chemistry Fundamentals I
   - MAC 2311 Calculus w/ Analytic Geometry I
   - MAC 2312 Calculus w/ Analytic Geometry II
   - PHYS 2048&L*+ Physics Engr. & Sci. I & Lab
   - PHYS 2049&L*+ Physics Engr. & Sci. II & Lab
   
   *See Transfer Notes for possible substitutes

   +CHM 2040C plus CHM 2041C can substitute for CHM 2045C

   3. Core Science and Mathematics Requirements

   (20 hrs)

   - BSC 2010C Biology I
   - CHM 2045C Chemistry Fundamentals I
   - MAC 2311 Calculus w/ Analytic Geometry I
   - MAC 2312 Calculus w/ Analytic Geometry II
   - STA 2023 Statistical Methods I
   - PCB 2063L Genetics & Lab
   - PCB 2233L Immunology & Lab
   - MAC 2311 Calculus w/ Analytic Geometry I
   - MAC 2312 Calculus w/ Analytic Geometry II
   - PHV 2048&L* Physics Science & Eng I
   - PHV 2049&L* Physics Science & Eng II

   *See Transfer Notes for possible substitutes

   4. Forensic Science Core

   (18 hrs)

   - CHS 3501 Intro to Forensic Science
   - CHS 3505C Forensic Microscopy
   - CHS 4537 Forensic Lab Quality Assurance
   - CHS 3595 Forensic Science in the Courtroom
   - CHS 4533 Forensic Biochemistry I
   - CHS 4591 Forensic Science Internship

   5. Forensic Biochemistry Track

   (30 hrs)

   - MCB 3020C General Microbiology
   - BCH 4053 Biochemistry I
   - BCH 4054 Biochemistry II
   - BCH 4103L Biochemical Methods Lab
   - PCB 3522 Molecular Biology I
   - PCB 4524 Molecular Biology II
   - BSC 3403C Quantitative Biological Methods
   - CHS 4534C Forensic Biochemistry II
   - CHS 4532 Interpretation of DNA Evidence
   - CHS 3533L Forensic Biochemistry Lab

   6. Departmental Exit Requirements

   - Earn a grade of "C" (2.0) or better in each course used to satisfy categories 2, 3, 4, and 5 of the departmental degree requirements.
   - Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 2 and 3 of the departmental degree requirements.
   - Achieve at least a minimum overall 2.5 GPA in all courses used to satisfy categories 4 and 5 of the departmental degree requirements.
   - Computer Competency met by CHS 3505C and CHS 4537.
   - American Board of Criminalists (ABC) exit exam must be taken prior to graduation, or an exit exam specified by the department.
   - The last 30 credit hours of regularly scheduled courses that satisfy degree requirements must be taken in residence at UCF.
   - Before applying to graduate, the CLAST must be completely satisfied.

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 residence at UCF
   - 25% of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP,
Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternatives in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

**Summer**
- Chem Test See catalog 0
- Math test See catalog 0

**Freshman Year**

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<td>ENC 1101 Composition I</td>
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<td>MAC 2311 Calc Anal Geo I</td>
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<td>MAC 2312 Calc Anal Geo II</td>
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<td>MAC 2311* &amp; 2312*: Although MAC 2353 &amp; 2354 will satisfy the CPP, MAC 2311 &amp; 2312 are required in the major and still must be taken.</td>
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**Sophomore Year**

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<td>PHY 2049 Phy for Eng Sci II</td>
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<tr>
<td>SPC 1016 Tech Presentations</td>
<td>PHY 2049L Phy L Eng Sci II</td>
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<td>STA 2023 Stat Methods I</td>
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<td>PHY 2049 Phy for Eng Sci II</td>
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**Junior Year**

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<td>REL 2300* req# 1B3-GEP</td>
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<td>CHS 4537 For L Qual Assur</td>
<td>Elective* Check restrictions</td>
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**Senior Year**

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**Senior Year**

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FRENCH (B.A.)

College of Arts and Humanities
Department of Modern Languages & Literatures, CNH 523
http://www.cas.ucf.edu/forlang
E-mail: Modernlanguages@ucf.edu
Contact: P. Giordano, 407-823-2472

Admission Requirements

- Placement in Language courses
  - Placement in Modern Language courses is based on one year of high school language being equivalent to one semester of college work. For example, four years of high school French may place the student in the first semester of the third year. Native speakers, or students who have received advanced education in French-speaking societies, may not take lower division French courses. They must also substitute other upper division level courses for FRE 3420, FRE 4422, FRE 3760, and FRE 4421.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- 36 credits in French must be taken at the 3000 level or above.
- At least six of the 36 French credits must be at the 4000 level.
- At least 30 hours must be taken in Modern Language courses taught in French.
- Earn at least a "C" (2.0) in each upper division French course.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and Literatures.
- Language credit by exam will not be given in courses lower in level than those in which students are presently enrolled. Native speakers will be allowed Credit by Examination in literature courses only.
- Co-op or internship credit cannot be used in this major.
- Students must see their advisor to obtain proper counseling and have their schedule approved before registering for courses in their major.
- Courses designated in 1 (Gen Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

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

2. Common Program Prerequisites (0-14 hrs)
   - FRE 1120* Elem French Lang & Civ I 4 hrs
   - FRE 1121* Elem French Lang & Civ II 4 hrs
   - FRE 2200* Intern French Lang & Civ I 3 hrs
   - FRE 2201* Intern French Lang & Civ II 3 hrs
   - Fre 2201* Me 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 3780* French Phonetics and Diction 3 hrs
   - POL 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 6 hrs
5. Departmental Exit Requirements
- Earn a grade of "C" (2.0) or higher in at least 36 hours of upper division French courses
- Students are required to satisfactorily complete a departmental exit exam
- Students must submit their portfolio to their French Faculty Advisor
- Computer Competency met by CGS 1060C or equivalent

6. Foreign Language Requirements
Admission: Met by Graduation requirements.
Graduation: Met by Common Program Prerequisites.

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

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

Total Semester Hours Required: 120 hrs

Related Programs: Spanish, Foreign Language Combination

Related Minors: French, German, Italian, Judaic Studies, Latin American and Iberian Area Studies, Spanish

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

GENERAL BUSINESS (B.S.B.A.)
College of Business Administration
BA2 101, 407-823-2184
http://www.bus.ucf.edu
E-mail: uss@bus.ucf.edu
Faculty Advisor: Undergraduate Student Services, BA2 101, 407-823-2184

Admission Requirements
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements
1. UCF General Education Program (36 hrs)
   - A. Communication Foundations
     Required: SPCH 1600
   - B. Cultural and Historical Foundations
     Required: MACC 1105 College Algebra
   - C. Mathematical Foundations
     Required: CGS 2100C Computer Fundamentals for Bus
   - D. Social Foundations
     Required: ECO 3103 Principles of Management Accounting
   - E. Science Foundation
     Required: ECO 3203 Microeconomics
   - F. Social Science
     Required: ECO 3401 Quantitative Business Tools I
   - G. Business Electives
     Required: CGS 2100C Computer Fundamentals for Business

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

2. Common Program Prerequisites (18-21 hrs)
   - ACG 2021 Principles of Financial Accounting
   - ACG 2071 Principles of Managerial Accounting
   - ECO 2013 Macroeconomics
   - ECO 2023 Microeconomics
   - *ECO 3401 Quantitative Business Tools I
   - *GS 2100C Computer Fundamentals for Business

   *At UCF, students who have completed MAC2233 and STA2023 will be waived from

3. Required for All Business Majors (36 hrs)
   First or subsequent semester in the College of Business Administration:
   - GEB 3031 Cornerstone (Required in 1st or 2nd semester)
   - 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 Info Sys
   - MAR 3023 Marketing

   Last Semester:
   - MAN 4720 Strategic Management

4. Special college and/or department requirements:
- Students who change degree programs and select this major must adopt the most current catalog.
- Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisites class.
- Students wanting to major in General Business must apply for admission to the major.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.
- Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students must have at least a 2.0 GPA in the major and COB.
- Students majoring in General Business must earn a grade of “C” (2.0) or better in each course applied towards the major, and a 2.0 overall average in the major.

5. Second Level Core (5 courses):
Students must take one course from each of the following areas:
Economics (must take ECP 4703), Finance, Management, Information Systems, and Marketing. These five courses are restricted to the courses listed below:

Finance
- FIN 3303 Financial Markets
- FIN 3414 Intermediate Corporate Finance
- FIN 3504 Investment Analysis

Management
- MAN 3301 Management of Human Resources
- MAN 4240 Organizations: Theory and Behavior
- MAN 4441 Conflict Resolution and Negotiation
- GEB 3113 How to Start a Business

Management Information Systems
- ISM 3253 MIS Techniques
- ISM 4153 Enterprise Information Systems
- ISM 4154 Enterprise Application Development

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

Economics*
- ECO 3223 Money and Banking
- ECP 3203 Contemporary Labor Economics
- ECP 4703 Managerial Economics

*ECO 4703 is required. ECP 3203 and ECO 3223 are restrictive electives only.
With permission of Economic advisor, any other 3000 or 4000 level ECO, ECP, or ECS course may be substituted as an Economics restrictive elective. This substitution must be petitioned and have written approval.

6. Restricted Electives (three courses):
Restricted electives are to be taken from two different departments and from the courses listed above, at least two of the restricted electives must be at the 4000 level.

7. Students desiring to complete the General Business major as a second major within the College of Business Administration must complete 24 hours in the second major beyond the courses required for the first major.
8. Foreign Language Requirements  (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none
Transfer Notes
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- Common Program Prerequisites for the State University System 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.
- 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.

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

10. Electives** (variable)
Total Semester Hours Required 120 hrs
**General electives as required to reach 120 semester hours.

FOUR YEAR PLAN OF STUDY - ALL GENERAL BUSINESS MAJORS
Freshman
1st Term  15 hrs  2nd Term  15 hrs
ENC 1101*  3  ENC 1102*  3
Cult-Hist I*  3  Cult-Hist II*  3
SPC 1600  3  Art/Music/Lit  3
**Elective  3  MAC 1106*  3
**Elective  3  CGS 2100CC*  3
Must complete nine hours in a summer semester

Sophomore
1st Term  15 hrs  2nd Term  15 hrs
ECO 2023*  3  ECO 2013*  3
AGC 2021*  3  AGC 2071*  3
Science  3  Science  3
Psy/Soc/Art  3  **Elective  3
**Elective  3  ECO 3401*  3
Student should choose to major in one of the two areas of study below

GENERAL BUSINESS MAJOR

Junior
1st Term  16 hrs  2nd Term  15 hrs
GEB 3031  4  Required MAN Course  3
BUL 3130  4  MAN 3025  4
ISM 3011  4  ECO 3411  4
MAN 3025  4  FIN 3403  4

Senior
1st Term  16 hrs  2nd Term  13 hrs
GEB 3356  4  MAN 4720  4
Required FIN Course  3  ECP 4703  3
Required ISM Course  3  Gen. Bus. Restrictive Elective**  3
Required MAR Course  3  Gen. Bus. Restrictive Elective**  3
Gen. Bus. Restrictive Elective**  3
**Students take 3 restrictive electives from approved list described above
**General electives as required to reach 120 semester hours.

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, 407-823-2353
http://www.cohpa.ucf.edu/health.pro/
Undergraduate Program Director: Alice M. Noblin, E-mail: anoblin@mail.ucf.edu

Admission Requirements
- Limited Access Acceptance to the university does not necessarily constitute admission to the upper division health information management program.
- Separate Application to the limited access program must be made directly to the program prior to March 1 of the year admission is sought
- UCF application must also be submitted by the program deadline of March 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.
- Student must complete all general education, foreign language admissions, and program prerequisites prior to the start of the program
- All applicants must have a minimum overall GPA of 2.5 and complete all program prerequisite courses with at least a grade of "C" (2.0)

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions and the Common Program Prerequisites Requirements before transferring within the Florida Public University/ Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of “C” (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Health Information Program
- 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)
A. Communication Foundations  9 hrs
B. Cultural Historical Foundations  9 hrs
C. Mathematical Foundations  6 hrs
Select MAC 1105
Select STA 2014C
D. Social Foundations  6 hrs
E. Science Foundations (6 hrs)
Select BSC 2010C
Select CHM 1032

2. Common Program Prerequisites (17 hrs)
ZOO 3733C Human Anatomy* 4 hrs
PCB 3703C Human Physiology** 4 hrs
STA 2014C Statistics 3 hrs
GES 2100C Computer Science for Business* 3 hrs
ACG 2021 Principles of Financial Accounting 3 hrs
ACG 2071 Principles of Managerial Accounting 3 hrs

*See transfer notes

3. Core Requirements (68 hrs)
HSC 3157 Introduction to Pharmacology 3 hrs
HSA 3170 Health Care Finance 3 hrs
HSA 4109 Principles of Managed Care 3 hrs
HSA 4191 Health Care Automation 3 hrs
HSA 4702 Health Sciences Research Methods 3 hrs
HSC 3531 Medical Terminology 3 hrs
HSC 3640 Health Law 3 hrs
HSC 4550 Pathophysiological Mechanisms 3 hrs
MAN 3025 Management of Organizations 3 hrs
or HSA 4180 Organization/Management for Health Agencies 3 hrs
IMH 3006 Foundations of Health Information Management 3 hrs
IMH 3116C Health Record Organization & Management 4 hrs
IMH 3806L Professional Practice Exp. I 4 hrs
IMH 4816L Professional Practice Exp. II 4 hrs
HIM 4226C Coding Procedures I 5 hrs
HIM 4256C Coding Procedures II 3 hrs
HIM 4676 Professional Development Issues in Health Information Management 3 hrs
HIM 4344C Health Information Department Management 4 hrs
HIM 4506C Quality Management 3 hrs
HIM 4888 Management Affiliation 5 hrs
HIM 4656C Health Information Management Systems 3 hrs

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (120 hrs)
A minimum 2.5 overall GPA is required for graduation.
Upon completion of the approved program, the student is eligible to submit an application for writing the national registration examination administered by the American Health Information Management Association to qualify as a Registered Health Information Administrator.

6. Electives none

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

8. University Minimum Exit Requirements (120 hrs)
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Related Programs: Health Services Administration, Business, Computer Science
Related Minors: Health Services Administration, Business, Computer Science

Transfer Notes:
Community College Equivalents:
Human Anatomy & Physiology I & II (BSC 2085 and X086) 8 hrs
Statistics (STA 2014C or any other statistics course) 3 hrs
Computer Science for Business (CGS 1060C or any other computer science course) 3 hrs

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen

Freshman Year* 14 hrs 16 hrs
Fall ENC 1101 3 ENC 1102 3
CHM 1032 3 STA 2014C 3
HSC 2000 2 BSC 2010C 4
MAC 1115 3 EUH 2000 or HUM 2210 3
PSY 2012 or SYG 2000 or ANT 2000 3
or AMH 2020 POS 2041 or ECO 2013 3
*Plan your required nine summer hours into your course of study

Sophomore Year 13 hrs 13 hrs
Fall ACG 2021 3 ACG 2071 3
ZOO 3733C 4 PCB 3703C 4
EUH 2001 or HUM 2230 3 SPC 1600 3
or AMH 2020 One Course: ARH 2050 3
CGS 2100C 3 ARH 2051, MUL 2010, THE 1020, REL 2300, PHI 2010, LIT 2110, LIT 2120

Junior Year 15 hrs 16 hrs
Fall HSA 4191** 3 HIM 4226C 5
HSC 4550** 3 HIM 3116C 4
HIM 3006 3 HIM 3806L 4
MAN 2025** or HSA 4180 3 HSC 3157 3
HIM 3531** 3
Summer 6 hrs
HSA 4109 3
HSC 3640** 3

Senior Year 13 hrs 13 hrs
Fall HIM 4344C 4 HIM 4676 3
HSA 3170** 3 HIM 4556C 3
HIM 4506C 3 HIM 4816L 4
HIM 4226C 3 HSA 4702** 3
Summer 5 hrs
HIM 4888 5

**Note: The asterisked courses may be taken at any time during the two years. The HIM courses are offered only during the semester in which they appear on this schedule and are restricted to majors only.

HEALTH SCIENCES - ATHLETIC TRAINING TRACK (B.S.)
College of Health and Public Affairs
HPA2 210, 407-823-3463
http://www.coha.ucf.edu/health.pro/athletic
E-mail: kschellh@mail.ucf.edu
Undergraduate Program Director: Kristen C. Schellhase, MEd, ATC, CSCS

Admission Requirements
Students may only begin the athletic training program track in the Summer B semester and must have:
A. Acceptance to the University as an undergraduate student in Health Sciences - Athletic Training Pending. Acceptance into the university does not constitute admission into the Program in Athletic Training.
B. A separate application to this competitive restricted access program must be made to the Program in Athletic Training. Acceptance into the university for the summer semester is necessary before acceptance into the Program in Athletic Training can occur.
C. A minimum of 2.75 overall grade point average and a minimum grade of “C” (2.0) in program prerequisites.
D. Completion of an AA degree from a Florida Community College; or completion of UCF’s General Education Program.
E. This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this intensity, it is strongly recommended that students be at least one year past high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.
F. Consent of Program Director.
G. A minimum of 100 documented clock hours working, volunteering, or shadowing with a licensed certified athletic trainer (ATC)
prior to application. At least 50 of these hours must be obtained within a traditional athletic training setting (high school, college, professional).

Technical Standards Requirement
The Program in Athletic Training at University of Central Florida is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills, and competencies of an entry-level athletic trainer, as well as meet the expectations of the program’s accrediting agency (Commission on Accreditation of Athletic Training Education [CAATE]). The following abilities and expectations must be met by all students admitted to the Program in Athletic Training. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program. Compliance with the program’s technical standards does not guarantee a student’s eligibility for the BOG examination.

Candidates for selection to the Program in Athletic Training must demonstrate:

- The mental capacity to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm;
- Sufficient postural and neuromuscular control, sensory function, and coordination to perform appropriate physical examinations using accepted techniques; and accurately, safely and efficiently use equipment and materials during the assessment and treatment of patients;
- The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice;
- The ability to record the physical examination results and a treatment plan clearly and accurately;
- The capacity to maintain composure and continue to function well during periods of high stress;
- The perseverance, diligence and commitment to complete the athletic training education program as outlined and sequenced;
- Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations;
- Affective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

Candidates for selection to the Program in Athletic Training will be required to verify they understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards. University of Central Florida will evaluate a student who states he/she could meet the program’s technical standards with accommodation and confirm that the stated condition qualifies as a disability under applicable laws. If a student states he/she can meet the technical standards with accommodation, then the University will determine whether it agrees that the student can meet the technical standards with reasonable accommodation; this includes a review a 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 internship deemed essential to graduation. Each candidate must provide a copy of a recent physical examination by a physician.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Admission Foreign Language requirement and the Common Program Prerequisites before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- Accepted students must agree to be available for practicum requirements which may occur during times and days which are outside of the UCF Academic Calendar; once admitted into the Program in Athletic Training, students must consult the Clinical Education Coordinator and/or Program Director well in advance of any potential scheduling conflicts
- 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
   - Communication Foundations 9 hrs
   B. Cultural Historical Foundations
   - Cultural Historical Foundations 9 hrs
   C. Mathematical Foundations
   - Mathematical Foundations 6 hrs
   D. Select STA 2023
   - Select STA 2023 6 hrs
   E. Social Foundations
   - Social Foundations 6 hrs
   F. Science Foundations
   - Science Foundations 6 hrs

2. Common Course Prerequisites (15 hrs)
The following courses are required before entering the professional phase of the Program in Athletic Training. Each of the required courses must have a grade of “C” (2.0) or better.

- BSC 2010C Biology I and Lab
- ZOO 3733C Human Anatomy
- PHY 2053C Coll Physics I (algebra based) or PHY 2053C Coll Physics I (algebra based)
- CHM 2045C Chemistry Fundamentals I
- CHM 2045C Chemistry Fundamentals I
- CHM 1032
- STA 2023 Statistical Methods I
- STA 2023
- STA 2023
- STA 2023

3. Professional Phase (62 hrs)
The following courses are required to complete the professional phase of the Program in Athletic Training. Each of the required courses must have a grade of “C” (2.0) or better.

- PET 4603C Introduction to Athletic Training
- PET 4603C Introduction to Athletic Training
- PET 4603C Introduction to Athletic Training
- PET 4603C Introduction to Athletic Training
- PET 4603C Introduction to Athletic Training

4. Upper Division Restricted Electives
   none

5. Departmental Exit Requirements (120 hrs)
   Two years of successful clinical rotation under the direct supervision of a certified Athletic Trainer (ATC).

6. Electives
   (variable)
   Select from upper level courses, with departmental advisors approval. May be outside of the department. Suggested electives relate to health, athletics, science, business, education, administration, and psychology.

7. Foreign Language Requirements (0-8 hrs)
   Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

   Graduation:
   none

8. Program Exit Requirements
   A minimum overall GPA of 2.75 and a minimum grade of “C” (2.0) in
UCF Degree Programs

prerequisite and major courses are required for graduation from the Program in Athletic Training. The program is accredited by the Commission on Accreditation of Athletic Training Education (CAATE). Graduates are eligible to apply to take the Board of Certification (BOC) examination. The examination application requirements include criteria related to criminal history and academic disciplinary history. Applicants to the Program in Athletic Training are encouraged to investigate these requirements before beginning the Program in Athletic Training.

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

Total Semester Hours Required 120 hrs

Related Programs: Aging Studies Certificate, Business, Public Administration, Sports and Fitness

Related Minors: Business, Computer Sciences, Aging Studies, Biology, Coaching, Fitness Training, Health Information Management, Health Sciences, Health Services Administration and Public Administration. Courses leading to a teaching certificate (education) are also appropriate. Electives in advanced scientific, clinical or quantitative subjects are also advisable.

Transfer Notes:
- Biology I with Lab (BSC 1010L) 4 hrs
- Human Anatomy and Physiology I & II 8 hrs
- (BSC X093 and X094 or BSC X085 and X086)
- Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen

Freshman Year*

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Sophomore Year

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Junior Year

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Senior Year

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<tr>
<td>Elective **</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**As needed

HEALTH SCIENCES - Pre-Clinical Allied Health Track (B.S.)

College of Health and Public Affairs
HPA2 210M, 407-823-6761
http://www.cohpa.ucf.edu/health.pro/hsgbs.cfm
E-mail: dsegal@mail.ucf.edu
Undergraduate Program Director: David M. Segal, PhD

The Health Sciences-Pre-Clinical Allied Health Track is a Preparatory Program for Graduate Level Clinical Disciplines for the student who wishes to seek admission to graduate level clinical programs such as physical therapy, occupational therapy and physician assistant programs. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health or Health Services Administration.

Admission Requirements:
- None

Degree Requirements:
- Students should complete the General Education Program and the Common Program Prerequisites requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- Students must earn at least a "C" (2.0) in each course accepted as a Common Program Prerequisite and Core Requirement (see sections 2 and 3 below)
- A transfer course will be accepted with a grade lower than a "C."
- Students who change degree programs and select this major must adopt the most current catalog
- Students should have access to a personal computer, modem, and software in order to interact with the instructional faculty
- Courses in math, biology, chemistry and physics listed are the minimum levels. Students with adequate preparation are encouraged to enroll in higher course levels in the discipline.

1. UCF General Education Program (36 hrs)
- Communication Foundations 9 hrs
- 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
- Mathematical Foundations 6 hrs
- Select MAC 1114 Trigonometry or STA 2014C Principles of Statistics or STA 2023 Statistical Methods I
- Select ECO 2013 Principles of Economics I or ECO 2023 Principles of Economics II
- Select PSY 2012 General Psychology 6 hrs
- Science Foundations 6 hrs
- Select BSC 2010C Biology I or Select PHY 2053C College Physics I and Lab

2. Common Program Prerequisites (0 hrs)
- MAC 1114 Trigonometry GEP
- STA 2014C Principles of Statistics or GEP
- STA 2023 Statistical Method I GEP
- BSC 2010C Biology I GEP

3. Core Requirements - Lower Division (30 hrs)
- CGS 1060C Intro to Computer Science or
- CGS 2100C Computer Fundamentals for Business 3 hrs
- CHM 2045C Chemistry Fundamentals I with lab 4 hrs
- CHM 2046 Chemistry Fundamentals II 3 hrs
- CHM 2046L Chemistry Fundamentals II Lab 1 hrs
- CHM 2205 Introduction to Organic and Biochemistry 3 hrs
- DEP 2004 Developmental Psychology 3 hrs
- ECO 2023 Microeconomics GEP
- HSC 2000 Intro to the Allied Health Professions 2 hrs
- HUM 2002 Modern Concepts in Nutrition 3 hrs
- MAC 1114 College Trigonometry GEP
- MCB 2004C Microbiology for Health Professionals 4 hrs
- PHY 2053C College Physics I (not for Sci and Eng) GEP
- PHY 2054C College Physics II (not for Sci and Eng) 4 hrs
- PSY 2012 General Psychology GEP
- STA 2014 Principles of Statistics or
4. Core Requirements - Upper Division (41 hrs)
Basic and Health Sciences (14 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSC3157</td>
<td>Introduction to Pharmacology</td>
<td>3</td>
</tr>
<tr>
<td>HSC4550</td>
<td>Pathophysiology</td>
<td>3</td>
</tr>
<tr>
<td>PCB 3703</td>
<td>Physiology</td>
<td>4</td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>Anatomy</td>
<td>4</td>
</tr>
</tbody>
</table>

Health Services (27 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 3111</td>
<td>US Healthcare Systems</td>
<td>3</td>
</tr>
<tr>
<td>HSA 4201</td>
<td>Community Health Services</td>
<td>3</td>
</tr>
<tr>
<td>HSA 4180</td>
<td>Org &amp; Mgt of Health Agencies</td>
<td>3</td>
</tr>
<tr>
<td>HSA 2430</td>
<td>Health Care Economics</td>
<td>3</td>
</tr>
<tr>
<td>HSC 3640</td>
<td>Health Law</td>
<td>3</td>
</tr>
<tr>
<td>HSC 4500</td>
<td>Epidemiology</td>
<td>3</td>
</tr>
<tr>
<td>HSC 4653</td>
<td>Healthcare Ethics</td>
<td>3</td>
</tr>
<tr>
<td>HSA 4702</td>
<td>Health Sciences Research Methods</td>
<td>3</td>
</tr>
<tr>
<td>HIM 4560C</td>
<td>Quality Management</td>
<td>3</td>
</tr>
</tbody>
</table>

5. Upper Division Restricted Electives: Choose a minimum of 3 courses from the list below

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 3170</td>
<td>Health Care Finance</td>
<td>3</td>
</tr>
<tr>
<td>HSA 3222</td>
<td>Long Term Care Administration</td>
<td>3</td>
</tr>
<tr>
<td>HSA 4109</td>
<td>Managed Care</td>
<td>3</td>
</tr>
<tr>
<td>HSA 4191</td>
<td>Health Care Automation</td>
<td>3</td>
</tr>
<tr>
<td>HSC 3110C</td>
<td>Medical Self Assessment</td>
<td>3</td>
</tr>
<tr>
<td>HSC 3531</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>HSC 4243</td>
<td>Analysis of Instruction</td>
<td>3</td>
</tr>
<tr>
<td>HSC 4564</td>
<td>Healthcare Needs of the Elderly</td>
<td>3</td>
</tr>
<tr>
<td>HSC 3933</td>
<td>HIV Disease</td>
<td>3</td>
</tr>
<tr>
<td>HSC 4008</td>
<td>Professional Development of the Health Prof</td>
<td>3</td>
</tr>
<tr>
<td>PHT 4119C</td>
<td>Clinical Gross Anatomy</td>
<td>4</td>
</tr>
</tbody>
</table>

6. Unrestricted Electives (variable)

7. Foreign Language Requirements (0-8 hrs)

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

Graduation: none

8. Program Exit Requirements (120 hrs)

- The students must attain a minimum grade of "C" (2.0) in all Common Program Prerequisite courses and in all Core Requirements (see sections 2, 3 and 4 above). An overall 2.0 GPA must be attained for all coursework (see sections 1 - 5).
- Students should note that graduate programs may require a higher level of performance for admission.

9. University Minimum Exit Requirements

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

Total Semester Hours Required: 120 hrs

Related Programs: The participating student may also consider applying for consideration to one or more of the following undergraduate professional degree options: Health Information Management, Athletic Training, Cardiopulmonary Sciences, Radiologic Sciences, Health Services Administration. The program is a Preparatory Program for Graduate Level Clinical Disciplines for the student who wishes to seek admission to graduate level clinical programs such as physical therapy, occupational therapy and physician assistant programs. Students with this preparation could also pursue graduate programs in Public Health, Environmental Health or Health Services Administration.

Related Minors: Health Information Management, Health Services Administration.

Transfer Notes: Completion of the Associate of Arts Degree is strongly recommended. Students who transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Tentative Course Schedule for Entering Freshmen

Freshman Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 15/16 hrs</td>
<td>ENC 1101</td>
<td>English Composition I</td>
<td>3</td>
</tr>
<tr>
<td>Spring 15/16 hrs</td>
<td>CGS 1050C or 2100C</td>
<td>English Composition II</td>
<td>3</td>
</tr>
<tr>
<td>Fall 15/16 hrs</td>
<td>CHM 2046 &amp; 2046L</td>
<td>General Chemistry I</td>
<td>4</td>
</tr>
<tr>
<td>Spring 15/16 hrs</td>
<td>CHM 2045C</td>
<td>General Chemistry II</td>
<td>4</td>
</tr>
<tr>
<td>Fall 15/16 hrs</td>
<td>MAC 1011</td>
<td>Microeconomics</td>
<td>3</td>
</tr>
<tr>
<td>Spring 15/16 hrs</td>
<td>HSC 2000</td>
<td>Microbiology</td>
<td>2</td>
</tr>
</tbody>
</table>

Sophomore Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 15/17 hrs</td>
<td>PHY 2053C</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>Spring 15/17 hrs</td>
<td>HUN 2002</td>
<td>Human Physiology</td>
<td>3</td>
</tr>
<tr>
<td>Fall 15/17 hrs</td>
<td>SPC 1600</td>
<td>Physiology</td>
<td>4</td>
</tr>
<tr>
<td>Spring 15/17 hrs</td>
<td>E 2211 or AMH 2211</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>Fall 15/17 hrs</td>
<td>STA 2014C</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
<tr>
<td>Spring 15/17 hrs</td>
<td>STA 2023</td>
<td>Medical Terminology</td>
<td>3</td>
</tr>
</tbody>
</table>

Junior Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 14 hrs</td>
<td>DEP 2004</td>
<td>Health Services Administration</td>
<td>3</td>
</tr>
<tr>
<td>Spring 14 hrs</td>
<td>HSA 3111</td>
<td>Health Services Administration</td>
<td>3</td>
</tr>
<tr>
<td>Fall 14 hrs</td>
<td>PHY 2054C</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>Spring 14 hrs</td>
<td>ZOO 3733C</td>
<td>General Biology</td>
<td>3</td>
</tr>
</tbody>
</table>

Senior Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall 15 hrs</td>
<td>HSA 4702</td>
<td>Health Services Administration</td>
<td>3</td>
</tr>
<tr>
<td>Spring 15 hrs</td>
<td>HSC 4550</td>
<td>Health Services Administration</td>
<td>3</td>
</tr>
<tr>
<td>Fall 15 hrs</td>
<td>HSA 3430</td>
<td>Health Services Administration</td>
<td>3</td>
</tr>
<tr>
<td>Spring 15 hrs</td>
<td>HIM 4560C</td>
<td>Health Services Administration</td>
<td>3</td>
</tr>
<tr>
<td>Fall 15 hrs</td>
<td>Elective (if needed)</td>
<td>Other Lower Level Courses</td>
<td>3</td>
</tr>
<tr>
<td>Spring 15 hrs</td>
<td>Elective (if needed)</td>
<td>Other Lower Level Courses</td>
<td>3</td>
</tr>
</tbody>
</table>

HEALTH SERVICES ADMINISTRATION (B.S.)

College of Health and Public Affairs
HPA2 210, 407-823-2359
http://www.cohealth.ucf.edu/health.pro/

Executive Director of HSA Programs: Myron Fottler;
Undergraduate Program Director: Kendall Cortelyou-Ward;

This program is currently available online. Students who choose to take online courses are urged to complete either CGS 2100C or CGS 1060C prior to enrolling in online-based courses. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see http://distrib.ucf.edu/home.

Admission Requirements: 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)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DEP 2004</td>
<td>Health Services Administration</td>
<td>3</td>
</tr>
<tr>
<td>HSA 3111</td>
<td>Health Services Administration</td>
<td>3</td>
</tr>
<tr>
<td>PHY 2054C</td>
<td>General Physics</td>
<td>4</td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>General Biology</td>
<td>3</td>
</tr>
</tbody>
</table>

2. Common Program Prerequisites (9 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CGS 2100C</td>
<td>Computer Fund for Business Applications</td>
<td>3</td>
</tr>
<tr>
<td>CGS1060C</td>
<td>Intro to Computer Science</td>
<td>3</td>
</tr>
</tbody>
</table>

GEP
### UCF Degree Programs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACG 2021</td>
<td>Financial Accounting</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ACG 2071</td>
<td>Managerial Accounting</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

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

#### 3. Core Requirements (48 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 2014C</td>
<td>Statistical Methods</td>
<td>3 hrs</td>
</tr>
<tr>
<td>or STA 2023</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HSA 3111</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 3222</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 4201</td>
<td>Community Health Services</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4180</td>
<td>Organization and Management for</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>Health Agencies</td>
<td></td>
</tr>
<tr>
<td>HSA 4191</td>
<td>Health Care Automation</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4502</td>
<td>Risk Management or Health Law</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HIM 4506</td>
<td>Quality Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 4702</td>
<td>Health Sciences 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 4565</td>
<td>Health Care Ethics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>HSA 3430</td>
<td>Health Care Economics</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Students must earn a “C” (2.0) or better in each Core Requirement course.

#### 4. 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 select with their advisor 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.

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

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

Graduation: none

Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

#### 8. University Minimum Exit Requirements

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

Total Semester Hours Required: 120 hrs

#### Related Programs:
- Aging Studies Certificate
- Public Administration
- Health Information Management

#### Related Minors:
- Aging Studies
- Health Information Management
- Health Sciences, Information Systems
- Public Administration

Courses leading to a Certificate in Aging Studies are appropriate.

#### Tentative Course Schedule for Entering Freshmen

<table>
<thead>
<tr>
<th>Year</th>
<th>Fall</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Freshman</td>
<td>ENC 1101</td>
<td>ENC 1102</td>
<td>14 hrs</td>
</tr>
<tr>
<td></td>
<td>PSY 2012</td>
<td>PSC 1121</td>
<td></td>
</tr>
<tr>
<td></td>
<td>or SYG 2000</td>
<td>or CHM 1020</td>
<td></td>
</tr>
<tr>
<td></td>
<td>HSC 2000</td>
<td>MUL 2010</td>
<td></td>
</tr>
<tr>
<td></td>
<td>MAC 1105</td>
<td>or REL 2300</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td>or PHI 2010</td>
<td></td>
</tr>
<tr>
<td></td>
<td>SPC 1600</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sophomore</td>
<td>ACG 2021</td>
<td>ACG 2071</td>
<td>15 hrs</td>
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</tbody>
</table>

#### Senior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 4191</td>
<td>HSC 4500</td>
<td>15 hrs</td>
</tr>
<tr>
<td>HSA 4201</td>
<td>HSA 4109</td>
<td></td>
</tr>
<tr>
<td>HSA 4502</td>
<td>HSC 4565</td>
<td></td>
</tr>
<tr>
<td>HSA 3430</td>
<td>HSC 4565C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Elective</td>
<td></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.

#### HISTORY (B.A.)

College of Arts and Humanities

History Department, CNH 551

E-mail: history@ucf.edu

Contact: TBA, 407-823-2224

Admission Requirements: none

Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog
- Students must earn at least a “C” (2.0) in each history course for it to be counted toward the major
- Co-op credit cannot be used in this major
- Students should consult with a departmental advisor
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF History Department
- Students must compile a portfolio of their written work in history, completed inside and outside the classroom
- Students must complete 36 hours in history
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations
   - B. Cultural and Historical Foundations
   - C. Mathematical Foundations
   - D. Social Foundations
   - E. Science Foundations

2. Common Program Prerequisites (0 hrs)
   - AMH 2010* US History: 1492-1877
   - AMH 2020* US History: 1877-Present

3. Core Requirements (9 hrs)
   - HIS 4150 History & Historians
   - Select one sequence

*See Transfer Notes for possible substitutes
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

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: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduating 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 hrs

Related Programs: Humanities
Related Minors: African-American Studies, American Studies, Asian Studies, Humanities, Judaic Studies, Latin American Area Studies, Women’s Studies

Transfer Notes:
- Grades below “C” (2.0) are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- AMH 2010* & 2020*: may use any two introductory courses with an AMH, EUH, LAH, ASH, HIS or WOH prefix. However AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year
Fall
AMH 2010 U.S. His 1492-1877 3
BSC 1005* req# 1E2-GE
ENC 1101 Composition I 3
PSS 2041* req# 1D1-GE
SPC 1600* req# 1A3-GE
Spring
AMH 2020 U.S His 1877 Pres 3
AST 2002* req# 1E1-GE
ENC 1102 Composition II 3
MGT 1106* req# 1C1-GE
SYG 2000* req# 1D2-GE

Sophomore Year
Fall
ARH 2050* req# 1B3-GE
CGS 100C Intro to Comp Sci 3
EUAH 2000* req# 3-Core
ELECTIVE Check restrictions 3
SPN 1120* req# Lang/Elect 3
Spring
EUH 2001* req# 3-Core 3
ELECTIVE Check restrictions 3
ELECTIVE Check restrictions 3
SPN 1121* req# Lang/Elect 4

Junior Year
Fall
HIS 4150 History & Histgrns 3
ASH 3222* req# 4.1-ResEle 3
EUH 3315* req# 4.2-ResEle 3
ELECTIVE Check restrictions 3
ELECTIVE Check restrictions 3
ELECTIVE Check restrictions 3
Spring
LAEH 3310* req# 4.3-ResEle 3
AMH 3571* req# 4.4-ResEle 3
ELECTIVE Check restrictions 3
ELECTIVE Check restrictions 3
ELECTIVE Check restrictions 4
ELECTIVE Check restrictions 3
Portfolio See catalog 0

Senior Year
Fall
HST 3310* req# 4.4-Out of State 3
ASH 3222* req# 4.5-ResEle 3
ELECTIVE Check restrictions 3
ELECTIVE Check restrictions 3
ELECTIVE Check restrictions 3
Spring
LAEH 3310* req# 4.5-ResEle 3
AMH 3571* req# 4.6-ResEle 3
ELECTIVE Check restrictions 3
ELECTIVE Check restrictions 3
ELECTIVE Check restrictions 3
ELECTIVE Check restrictions 3
Portfolio See catalog 0

HISTORY ACCELERATED PROGRAM(B.A. and M.A.) Accelerated Undergraduate/Graduate Program Note: For detailed information about this program, see description in the "Accelerated Undergraduate/Graduate Program" section of this Undergraduate Catalog.

HOSPITALITY MANAGEMENT (B.S.) Rosen College of Hospitality Management 9907 Universal Boulevard Orlando, Florida 32819 407-903-8000 E-mail: hospitality@mail.ucf.edu http://www.hospitality.ucf.edu
Dean: Abraham Pizam

Degree Requirements
1. UCF General Education Program (GEP) (36 hrs)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
- Select MAC 1105 College Algebra 3 hrs
- Select CGS 2100C Computer Fundamentals for Bus or STA 2023 Statistical Methods I 3 hrs
D. Social Foundations
- Select ECO 2013 Macroeconomics or ECO 2023 Microeconomics 3 hrs
- Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
E. Science Foundation 6 hrs
2. Common Program Prerequisite (3 hrs)
HFT 1000 Introduction to Hospitality/Tourism 3 hrs
3. Foundations

Quantitative Tools
CGS 2100C Computer Fundamentals of Business (GEP)
or STA 2023 Statistical Methods I (GEP)
ECO 2013 Macroeconomics (GEP)
or ECO 2023 MicroEconomics (GEP)
MAC 1105 College Algebra (GEP)

4. Hospitality Management Core (34 hrs)
FSS 2221C Quantity Food Preparation 3 hrs
HFT 3540 Guest Services Management 3 hrs
HFT 2403 Hospitality Finance Accounting 3 hrs
HFT 3431 Hospitality Management Accounting 3 hrs
HFT 2500 Hospitality Marketing 3 hrs
HFT 2220 Hospitality Human Resource Mgmt 3 hrs
HFT 3444 Hospitality Information Systems 3 hrs
HFT 3600 Legal Environment in Hospitality 3 hrs
HFT 4295 Leadership and Strg Mgmt in Hospitality Ind 3 hrs
HFT 4286 Hospitality Communications 3 hrs
HFT 4462 Hospitality Industry Finance 3 hrs
HFT 3933 Distinguished Lectures in Hosp Mgmt 1 hr

5. Hospitality Operations Core (Choose 6 of the following) (18 hrs)
- HFT 2254 Lodging Operations 3 hrs
- HFT 3700 Tourism Management 3 hrs
### UCF Degree Programs

#### 6. Internship

<table>
<thead>
<tr>
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<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>HFT 3940</td>
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<tr>
<td>HFT 4941</td>
<td>Internship II</td>
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</tr>
<tr>
<td>HFT 4944</td>
<td>Internship III</td>
<td>1 hr</td>
</tr>
</tbody>
</table>

#### 7. Special College Requirements:
- Final exams will be given during Final Exam Week only.
- Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management core classes or restricted electives at UCF.

#### 8. Restricted Electives:

**Generalist Track:** Students must take 15 credit hours (five courses) of Hospitality Management courses in the Hospitality Management Specialized Tracks or the restrictive electives in other degree programs (see Restaurant and Food Service Management B.S. and/or Event Management B.S.) offered by the Rosen College. Please note: No more than 2 courses (6 credit hours) may be taken from any one track or degree program at the Rosen College of Hospitality Management to satisfy the restricted elective requirement.

**Specialized Tracks:** Students must complete one of the six Hospitality Management Specialized Tracks offered by the Rosen College as outlined below to satisfy the restricted elective requirement.

#### SPECIALIZED TRACKS – Select one of the tracks below

**A. Vacation Ownership Resort Management Track – 15 hrs (5 Courses)**
- HFT 4275 Development of Vacation Ownership Resorts 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

**B. Theme Park and Attraction Mgmt Track – 15 hrs (Choose 5 Courses from the following list)**
- 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 4795 Entertainment Arts and Events 3 hrs
- HFT 3784 Amusement Technology 3 hrs

**C. Tourism Management Track – 15 hrs (Choose 5 Courses from the following list)**
- HFT 4735 Tourism Geography 3 hrs
- HFT 4722 Travel Agency Management 3 hrs
- HFT 4762 Current Practices in the Airline Industry 3 hrs
- HFT 4736 Destination Management 3 hrs
- HFT 4651 Destination Marketing 3 hrs
- HFT 3770 Cruise Line Operations and Management 3 hrs

**D. Lodging Management Track – 15 hrs (5 Courses)**
- HFT 3313 Hospitality Physical Plant Management 3 hrs
- HFT 4343 Hospitality Facilities Planning & Design 3 hrs
- HFT 4473 Hotel Development Analysis 3 hrs
- HFT 4533 Hotel Operations 3 hrs
- HFT 3515 Reservations & Marketing 3 hrs

**E. Hospitality Financial Management and Technology – 15 hrs (5 Courses)**
- HFT 4442 Vacation Ownership Resort Reservations/ Data Base Systems 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

**F. Golf and Club Management Track**
- (Choose 5 Courses from the following list)

**H. Hospitality Financial Management and Technology – 15 hrs (5 Courses)**
- HFT 3313 Hospitality Physical Plant Management 3 hrs
- HFT 3314 Hospitality Facilities Planning & Design 3 hrs
- HFT 4473 Hotel Development Analysis 3 hrs
- HFT 4533 Hotel Operations 3 hrs
- HFT 3515 Reservations & Marketing 3 hrs

**E. Hospitality Financial Management and Technology – 15 hrs (5 Courses)**
- HFT 4442 Vacation Ownership Resort Reservations/ Data Base Systems 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

**F. Golf and Club Management Track**
- (Choose 5 Courses from the following list)

### 9. Foreign Language Requirements

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

### 10. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 48 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. Unrestricted Electives

**(3-11 hrs)**
- As necessary to result in 120 total credit hours.

### FOUR YEAR PLAN OF STUDY FOR HOSPITALITY MANAGEMENT*

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

**Freshman**

**Fall**
- ENC 1101 3
- Cult-Hist I 3
- CGS 2100C
- FSS 2221C Quant Food Prep 3
- HFT 1000 3
- STAT 4321 3

**Spring**
- ENC 1102 3
- Cult-Hist II 3
- SPC 1620 3
- HFT 2220 Hosp Hum Res 3
- MAC 1105 College Algebra 3

**Sophomore**

**Fall**
- ECO 2013 or ECO 2023 3
- Science Foundation I 3
- Unrestricted Elective 3
- Hospitality Elective 3
- Operations Core 3

**Spring**
- ENC 1000 3
- Culture Foundation II 3
- Hospitality Elective 3
- Unrestricted Elective 3
- Operations Core 3

**Junior**

**Fall**
- HFT 1000 3
- HFT 4941 Internship II 1 hr
- HFT 4944 Internship III 1 hr
- Hospitality Elective 3
- Hospitality Elective 3

**Spring**
- HFT 3333 Hospitality Management II 3
- Hospitality Elective 3
- Hospitality Elective 3
- Hospitality Elective 3
- Hospitality Elective 3

**Senior**

**Fall**
- HFT 4944 Internship III 1 hr
- Hospitality Elective 3
- Hospitality Elective 3
- Hospitality Elective 3
- Hospitality Elective 3

**Spring**
- Hospitality Elective 3
- Hospitality Elective 3
- Hospitality Elective 3
- Hospitality Elective 3
- Hospitality Elective 3

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*University of Central Florida | 2007-2008 Undergraduate Catalog*
HOSPITALITY MANAGEMENT (B.S.)
A.S. to B.S. Track
Note: For detailed information about this program, see description in the AS to BS Programs section.

HUMANITIES (B.A.)
College of Arts and Humanities
Philosophy Department, CNH 411
http://www.cas.ucf.edu/philosophy/
E-mail: philosophy@ucf.edu
Contact: Bruce Janz, 407-823-2273; Fax: 407-823-6658

Admission Requirements
- none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a “C” (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
   - 9 hrs
   B. Cultural and Historical Foundations
   - Select HUM 2210 Humanistic Tradition I (3 hrs)
   - Select HUM 2230 Humanistic Tradition II (3 hrs)
   - Prefer PHI 2010 Intro to Philosophy or REL 2300 World Religions (3 hrs)
   C. Mathematical Foundations
   - Pref MGF 1106 Finite Mathematics (3 hrs)
   - (may substitute a higher level math)
   - Prefer STA 1060C Statistics Using Excel (3 hrs)
   D. Social Foundations
   - none
   E. Science Foundations
   - none

2. Common Program Prerequisites
- none

3. Core requirements (6 hrs)
   - HUM 2210 Humanistic Traditions I GEP
   - HUM 2230 Humanistic Traditions II GEP
   - HUM 2200 Encountering the Humanities 3 hrs
   - HUM 4933 Humanities Senior Research Seminar 3 hrs

4. Concentrations (choose one) (23 hrs)
   Note: Appropriate new, or special topics courses in philosophy or humanities may be substituted for some courses with prior approval by department advisor.
   A. Classical Humanities:
      1. Foundations:
         - HUM 4301 The Classical Ideal (9 hrs)
         - Select two courses (6 hrs)
      2. Western Traditions and Applications
         - ARH 4310 Italian Renaissance Art
         - ARH 4170 Greek and Roman Art
         - HUM 3552 Christian Thought
         - HUM 3553 Moses, Jesus, & Mohammed
         - CLA 3850 Classical Mythology
         - CLA 3851 Comparative Mythology
         - JST 3401 The Jewish People I
         - REL 3432 Roots of Western Mysticism
         - Only one of the following may be taken
         - PHH 3100 Ancient Philosophy
         - PHH 3200 Medieval Philosophy
         - PHH 3460 Modern Western Philosophy
      3. World Intellectual Traditions:
         - ANT 3245 Native American Religions
         - HUM 3401 Asian Humanities
         - HUM 3417 Hindu Thought and Culture
         - HUM 3419 Islamic Thought and Culture
         - HUM 3460 Latin American Humanities
         - HUM 4303 The Spiritual Ideal
   B. Multicultural Humanities
      1. Foundations
         - HUM 3320 Contemporary Multicultural Studies (3 hrs)
         - Select one
         - HUM 3431 Ancient Humanities
         - HUM 3435 Medieval Humanities
         - Select one
         - HUM 3252 Contemporary Humanities
         - HUM 3255 Modern Humanities
      2. Traditions and Applications
         - ANT 3311 Indians of the Southeastern US
         - ARH 3520 African Art
         - HUM 3401 Asian Humanities
         - HUM 3417 Hindu Thought and Culture
         - HUM 3419 Islamic Thought and Culture
         - HUM 3553 Moses Jesus and Mohammed
         - HUM 3460 Latin American Humanities
         - JST 3401 The Jewish People I
         - PHH 3701 Native American Philosophy
         - PHM 3123 Feminist Theory
   C. Critical Humanities
      1. Foundations
         - HUM 3255 Modern Humanities
         - HUM 3252 Contemporary Humanities
         - PHI 4804 Critical Theory
      2. Traditions and Applications
         - HUM 4330 Performance Theory
         - HUM 4554 Religious Quest and the Human Dilemma
         - HUM 3900 Representations of Place and Space
         - PHH 3510 Marx and Nietzsche
         - PHH 3600 Contemporary Philosophy
         - PHI 3638 Ethical Issues in the 21st Century
         - PHI 4321 Philosophy of Embodiment: Mind/Body/Self
         - PHI 3033 Philosophy, Religion, and the Environment
         - PHI 3022 Sexuality, Gender, and Philosophy
         - PHI 3803 Philosophy and Creativity
         - PHM 3123 Feminist Theories
         - PHP 3786 Existentialism
         - PHP 3783 Modernity as a Philosophical Problem
         - PHP 4782 Phenomenology
         - REL 3111 Religion and Philosophy through Film
         - REL 3115 Religion, Spirituality, and Popular Music
         - HUM 3800 Research Methods in Humanities

5. Upper division Restricted Electives (3 hrs)
   Select one course from the “Traditions and Applications” category in the concentrations that are not being used to satisfy Core Requirements, or from the following:
   - HUM 4303 Spiritual Ideal
   - PHI 3700 Philosophy of Religion
   - PHI 3800 Aesthetics
   or other courses as approved by advisor.

6. Honors in the Major
   Students considering graduate school in humanities are strongly encouraged to take Honors in the Major. Requirements are as follows:
   Core and Elective Requirements (30 hrs)
   - Same requirements as for regular majors
   - Honors Thesis
     - HUM 4903H Honors Directed Readings 3 hrs
     - HUM 4970H Honors Thesis 3 hrs
   - Additional Requirements
     - Application and admission through the Humanities Honors Coordinator and the Burnett Honors College
     - Fulfill University requirements for Honors in the Major
     - Earn a “B” (3.0) or better in both HUM 4903H and HUM 4970H
     - Maintain a UCF GPA of at least 3.2 and a Humanities GPA of at least 3.5
     - Successful completion and oral defense of Honors thesis
   - Departmental Exit Requirements
     - Earn a “C” (2.0) or better in each required course
     - Departmental Exit Exam in final semester.
     - Computer Competency met by HUM 4970H, HUM 4933, or by STA 1060C.
     - To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.
### Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside the department.

### University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

### Total Semester Hours Required

120 hrs

### Related Programs

- Religious Studies, Philosophy, Humanities-Philosophy, Religion, and Popular Culture

### Transfer Notes:

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

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for alternate, new or more appropriate selections.

### Freshman Year

#### Fall

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<td>Composition I</td>
<td>3</td>
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<tr>
<td>HUM 2210</td>
<td>Hum Tradition I</td>
<td>3</td>
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<td>MGF 1101</td>
<td>Math 1C</td>
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#### Spring

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<td>HUM 2230</td>
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<td>STA 1060C</td>
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<td>HUM 2200</td>
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<td>SPN 1121</td>
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<td>COM 1000</td>
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<td>PSY 2012</td>
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#### Spring

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<td>HUM 4301</td>
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<tr>
<td>PHI 3800</td>
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### Senior Year

#### Fall

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#### Spring

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<td>3</td>
</tr>
<tr>
<td>Elective</td>
<td>Check restrictions</td>
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</tbody>
</table>

### Philosophy

Select two courses:

- PHI 2101 Critical Thinking
- PHI 3700 Philosophy of Religion
- PHI 3800 Aesthetics
- PHM 3100 Freedom and Justice
- PHP 3790 Faith and Reason
- PHP 4300 Theories of Knowledge

### Religion

Select two courses:

- CLA 3851 Comparative Mythology
- HUM 3552 Christian Thought
- HUM 3553 Moses, Jesus, and Mohammed
- HUM 3417 Hindu Thought and Culture
- HUM 3419 Islamic Thought and Culture
- HUM 4303 The Spiritual Ideal
- HUM 4554 Religious Quest and the Human Dilemma
- PHI 3700 The Problem of Evil

### Popular Culture Studies (12 hrs)

#### Contemporary Media (6 hrs)

Select two courses:

- HUM 3320 Contemporary Multicultural Studies
- HUM 4556 Religion and the Arts
- HUM 4330 Performance Theory
- PHI 3625 Virtual Ethics
- PHI 4931 Philosophy in the News
- POS 3235 Mass Media and Politics
- POS 3258 Politics in Film
- REL 3115 Religion, Spirituality and Popular Music
- REL 3111 Religion and Philosophy through Film
- SYP 3630 Sociology of Popular Culture

### HUMANITIES—PHILOSOPHY, RELIGION & POPULAR CULTURE TRACK (B.A.)

#### College of Arts and Humanities

**Philosophy Department, CNH 411**

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

Advisor: Bruce Janz, 407-823-2273; Fax: 407-823-6658;
Advisor (Cocoa): Shelley Park, 321-433-7919

### Admission Requirements

#### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a “C” (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

#### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations
  - 9 hrs
- B. Cultural and Historical Foundations
  - Select HUM 2210 Humanistic Traditions I 3 hrs
  - Select HUM 2230 Humanistic Traditions II 3 hrs
  - Select REL 2300 World Religions or PHI 2010 Intro to Phil 3 hrs
- C. Mathematical Foundations
  - 6 hrs
  - Prefer MGF 1106 Finite Mathematics (May substitute a higher level math)
  - Prefer STA 1160C Statistics Using Excel
- D. Social Foundations
  - 6 hrs
  - Humanistic Traditions I
  - 6 hrs
  - Science Foundations
  - 6 hrs

#### 2. Common Program Prerequisites

- None

#### 3. Core requirements (18 hrs)

- a. Core
  - 0 hrs
  - PHI 2010 Intro to Philosophy
- b. Theoretical Foundations (6 hrs)
  - PHI 3684 Ways of Living
  - PHI 4341 Ways of Knowing
  - 6 hrs

#### 4. Popular Culture Studies

- (12 hrs)
  - Select two courses:
    - HUM 3320 Contemporary Multicultural Studies
    - HUM 4556 Religion and the Arts
    - HUM 4330 Performance Theory
    - PHI 3625 Virtual Ethics
    - PHI 4931 Philosophy in the News
    - POS 3235 Mass Media and Politics
    - POS 3258 Politics in Film
    - REL 3115 Religion, Spirituality and Popular Music
    - REL 3111 Religion and Philosophy through Film
    - SYP 3630 Sociology of Popular Culture

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a “C” (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

#### 1. UCF General Education Program (36 hrs)

- A. Communication Foundations
  - 9 hrs
- B. Cultural and Historical Foundations
  - Select HUM 2210 Humanistic Traditions I 3 hrs
  - Select HUM 2230 Humanistic Traditions II 3 hrs
  - Select REL 2300 World Religions or PHI 2010 Intro to Phil 3 hrs
- C. Mathematical Foundations
  - 6 hrs
  - Prefer MGF 1106 Finite Mathematics (May substitute a higher level math)
  - Prefer STA 1160C Statistics Using Excel
- D. Social Foundations
  - 6 hrs
  - Humanistic Traditions I
  - 6 hrs
  - Science Foundations
  - 6 hrs

#### 2. Common Program Prerequisites

- None

#### 3. Core requirements (18 hrs)

- a. Core
  - 0 hrs
  - PHI 2010 Intro to Philosophy
- b. Theoretical Foundations (6 hrs)
  - PHI 3684 Ways of Living
  - PHI 4341 Ways of Knowing
  - 6 hrs

#### 4. Popular Culture Studies

- (12 hrs)
  - Select two courses:
    - HUM 3320 Contemporary Multicultural Studies
    - HUM 4556 Religion and the Arts
    - HUM 4330 Performance Theory
    - PHI 3625 Virtual Ethics
    - PHI 4931 Philosophy in the News
    - POS 3235 Mass Media and Politics
    - POS 3258 Politics in Film
    - REL 3115 Religion, Spirituality and Popular Music
    - REL 3111 Religion and Philosophy through Film
    - SYP 3630 Sociology of Popular Culture
b. Contemporary Forms of Life (6 hrs)  
Select two courses:  
- ANT 3302 Sex, Gender and Culture  
- HUM 3252 Contemporary Humanities  
- PHI 3022 Sex, Gender and Philosophy  
- PHI 3629 Family Values  
- PHI 3033 Philosophy, Religion and the Environment  
- PMH 3401 Philosophy of Law  
- PHI 3638 Ethical Issues in the 21st Century  
- PHI 3683 Philosophy of Friendship  
- PHI 3XXX Philosophy of Love  
- PMH 3123 Feminist Theories  
- PHI 4321 Philosophies of Embodiment: Mind/Body/Self  
- REL 3131 Religion in America  

5. Capstone Course (3 hrs)  
- HUM 4933 Senior Research Seminar  

6. Honors in the Major (Optional)  
Students considering graduate school in humanities are strongly encouraged to take Honors in the Major. Requirements are as follows:  

a. Core Requirements, Popular Culture and Capstone (33 hrs)  
Same requirements as for regular majors  

b. Honors Thesis (6 hrs)  
- HUM 4903H Honors Directed Readings 3 hrs  
- HUM 4970H Honors Thesis 3 hrs  

c. Additional Requirements of Honors in the Major  
- 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  

7. Departmental Exit Requirement  
- Departmental Exit Exam in final semester.  
- Earn a "C" (2.0) or better in each required course  
- Computer Competency met by HUM 4970H, HUM 4933, or STA 1060C  
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.  

8. Foreign Language Requirements (0-8 hrs)  
Admission: Met by graduation requirement  
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.  

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

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

Total Semester Hours Required 120 hrs  

Related Programs: Humanities or Religious Studies, Philosophy  
Related Minors: 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.  

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/  
Contact: TBA  

Admission Requirements: none  
Degree Requirements  
Each engineering student is assigned a qualified engineering academic advisor in the department of his/her major. Each student should seek academic advisement before registering for classes each semester to minimize excess hours and to ensure that satisfactory academic progress is being maintained.  

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

A. Communication Foundations  
1. Select ENC 1101 & ENC 1102  
2. Prefer SPC 1016  

B. Cultural and Historical Foundations  
9 hrs  
1. Select two courses from Historical Foundations  
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1000, REL 2300, PHI 2010, LIT 2110, or LIT 2120  

C. Mathematical Foundations  
7 hrs  
1. Select MAC 2311 (PR: MAC 1144)  
2. Select STA 3032 (PR: MAC 2312)  

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

E. Science Foundations  
7 hrs  
1. Select PHY 2049/48L (PR: MAC 2311)  
2. ANT 2511, BSC 1005, BSC 1050, GLY 1030, GEO 1200, or MCB 1310  

2. Common Program Prerequisites (CPP’s) (19 hrs)  
These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred directly to UCF programs. A 2.0 cumulative GPA or better is required for these courses in section 2. marked with an asterisk (*). Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hrs</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 1440</td>
<td>Fundamentals of Chemistry for Eng* (CHM 2045/45L will substitute)</td>
<td>4 hr</td>
<td></td>
</tr>
<tr>
<td>MAC 2311</td>
<td>Calculus with Analytic Geometry I*</td>
<td>GEP</td>
<td></td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calculus with Analytic Geometry II*</td>
<td>4 hrs</td>
<td></td>
</tr>
<tr>
<td>MAC 2313</td>
<td>Calculus with Analytic Geometry III*</td>
<td>4 hrs</td>
<td></td>
</tr>
<tr>
<td>MAP 2302</td>
<td>Differential Equations*</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>PHY 2048/48L</td>
<td>Physics for Engineers &amp; Scientists I*</td>
<td>GEP</td>
<td></td>
</tr>
<tr>
<td>PHY 2049/49L</td>
<td>Physics for Engineers &amp; Scientists II*</td>
<td>4 hrs</td>
<td></td>
</tr>
<tr>
<td>ENC 1101</td>
<td>Composition I</td>
<td>GEP</td>
<td></td>
</tr>
<tr>
<td>ENC 1102</td>
<td>Composition II</td>
<td>GEP</td>
<td></td>
</tr>
<tr>
<td>Humanities Courses</td>
<td></td>
<td>GEP</td>
<td></td>
</tr>
<tr>
<td>Social Science Courses</td>
<td></td>
<td>GEP</td>
<td></td>
</tr>
<tr>
<td>Humanities or Social Sciences</td>
<td></td>
<td>GEP</td>
<td></td>
</tr>
</tbody>
</table>

3. Courses Required for the Engineering Core (22 hrs)  
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the courses for the major listed in 4.4. The technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements.  

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hrs</th>
<th>Notes</th>
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</thead>
<tbody>
<tr>
<td>EGN 1006C</td>
<td>Intro to the Engineering Profession</td>
<td>1 hr</td>
<td></td>
</tr>
<tr>
<td>EGI 1111C</td>
<td>Engineering Computer Graphics</td>
<td>2 hrs</td>
<td></td>
</tr>
<tr>
<td>EGI 1007C</td>
<td>Engineering Concepts &amp; Methods</td>
<td>1 hr</td>
<td></td>
</tr>
<tr>
<td>COP 2223</td>
<td>Introduction to C Programming</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>EGI 3310</td>
<td>Engineering Analysis - Statics</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>EGI 3321</td>
<td>Engineering Analysis - Dynamics</td>
<td>3 hrs</td>
<td></td>
</tr>
</tbody>
</table>
## UCF Degree Programs

**EGN 3358** Thermo-Fluids-Heat Transfer 3 hrs  
**or EGN 3343** Thermodynamics 3 hrs  
**EGN 3365** Structure & Properties of Materials 3 hrs  
**EGN 3373** Principles of Electrical Engineering 3 hrs

### 4. Courses Required for the Major (40 hrs)

The Industrial Engineering and Management Systems department requires all students within the major to achieve a 2.0 GPA or better in each course listed in sections 4., 5., and 6.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGN 3013 Engineering Economic Analysis</td>
<td>2 hrs</td>
</tr>
<tr>
<td>EGN 4624 Engineering Administration</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 3032 Probability &amp; Statistics for Engineers</td>
<td>GEP</td>
</tr>
<tr>
<td>EIN 3020 Introduction to IE &amp; MS</td>
<td>2 hrs</td>
</tr>
<tr>
<td>EIN 3314C Work &amp; Measurement Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EIN 3354 Principles of Cost Engineering</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ESI 4628C IE Applications of Computers</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ESI 4243C Human Engineering</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EIN 4333C Industrial Control Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EIN 4364C Industrial Planning &amp; Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EIN 4391C Manufacturing Engineering</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ESI 4221 Empirical Methods for IE</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ESI 4234 Quality Engineering</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ESI 4312 Operations Research</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ESI 4523C Systems Simulation</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### 5. Approved Technical Electives (3 hrs)

Technical electives are available in the BSIE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EIN 4516C Systems Analysis &amp; Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EIN 4891C IE Senior Design Project</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### 6. Departmental Graduation Requirements (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>EIN 4516C Systems Analysis &amp; Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EIN 4891C IE Senior Design Project</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Take the Fundamentals Exam during the Senior year.</td>
<td></td>
</tr>
</tbody>
</table>

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

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

**Graduation:** none

### 8. University Minimum Graduation Requirements

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

### Total Semester Hours Required: 128 hrs

**Related Programs:** Mechanical Engineering.  
**Related Minors:** Engineering Leadership

### Transfer Notes:

- Courses taken from Community Colleges do not substitute for Upper Division Courses unless part of an articulated pre-engineering degree program.
- 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>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>*ECS 1101 Intro to Eng</td>
<td>4 hrs</td>
</tr>
<tr>
<td>*MAC 2311 Calc with Analytic Geo I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>*MAC 2312 Calc with Analytic Geo II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EIN 3000 Introduction to IE &amp; MS</td>
<td>2 hrs</td>
</tr>
<tr>
<td>EIN 3314C Work &amp; Measurement Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EIN 3354 Principles of Cost Engineering</td>
<td>3 hrs</td>
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<tr>
<td>ESI 4628C IE Applications of Computers</td>
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<td>3 hrs</td>
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<tr>
<td>ESI 4523C Systems Simulation</td>
<td>3 hrs</td>
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### SECOND YEAR

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
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</thead>
<tbody>
<tr>
<td>*EC 2013 Microeconomics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>*EC 2023 Macroeconomics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>*EIN 4891C IE Senior Design Project</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EIN 4516C Sys Anal &amp; Dsgn</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EIN 4404EIECIE Senior Design Project</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EIN 3100 Intro to IE &amp; Mgt Sys</td>
<td>2 hrs</td>
</tr>
<tr>
<td>*MAC 2312 Calc with Analytic Geo III</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EIN 3373 Princ of Cost Engnr</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EIN 4333C Industrial Control Systems</td>
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### THIRD YEAR

<table>
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<tr>
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</tr>
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<tbody>
<tr>
<td>*ECO 2013 Macroeconomics</td>
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<td>*ECO 2023 Microeconomics</td>
<td>3 hrs</td>
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<tr>
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<td>2 hrs</td>
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</table>

### FOURTH YEAR

<table>
<thead>
<tr>
<th>Course</th>
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<tbody>
<tr>
<td>*ECO 2013 Macroeconomics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>*ECO 2023 Microeconomics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EIN 3100 Intro to IE &amp; Mgt Sys</td>
<td>2 hrs</td>
</tr>
<tr>
<td>*MAC 2312 Calc with Analytic Geo I</td>
<td>4 hrs</td>
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<tr>
<td>EIN 3373 Princ of Cost Engnr</td>
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</tr>
<tr>
<td>ESI 4523C Systems Simulation</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

### Notes:

1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. EGN 1106 and EGN 1107C 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 5. Approved Technical Electives.

### Accelerated BS/MS Degree Program

The Industrial Engineering & Management Systems Department offers the Accelerated BS/MS Program to students of high academic standing. This program allows up to twelve hours to be shared between the BS and MS degrees. See your department or the Accelerated program section in the back of this catalog for more information.

### INFORMATION SYSTEMS TECHNOLOGY (B.S.)

College of Engineering and Computer Science  
Engineering Technology (ENT) Department  
EGN 207, 407-823-4748; Fax: 407-823-4746  
http://www.ent.ucf.edu

**Coordinator:** Dr. Bahman Motlagh, E-mail: bmotlagh@mail.ucf.edu

**Admission Requirements**

Students should complete 33 credit hours of lower level technical courses at a community college. Technical courses will be accepted in the following areas: networking, programming, information technology, computer science, and computer engineering and technology or closely related disciplines.

### Degree Requirements

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. **UCF General Education Program**  
   (36 hrs)  
   | A. Communication Foundations | 9 hrs |
   | (nine hours completed in AS degree program) |
   | 1. ENC 1101 & ENC 1102 | |
Complete the General Education Program, the Gordon Rule, the A maximum of 45 hours of extension, correspondence, CLEP, or EET 3086 Principles of Electrical Circuits 4 hrs or EET 3086 Principles of Electrical Circuits 4 hrs

2. Lower Level Required Courses Taken (33 hrs or 25% of course work must be completed in residency at UCF

3. Prerequisite Courses (14 hrs or a maximum of 3 credit hours may be double counted)

4. Required Technical Courses (27 hrs or a minimum of 9 credit hours may be double counted)

5. IST Support Courses (6 hrs)

6. Technical Electives (12 hrs)

7. Departmental Exit Requirements

8. Foreign Language Requirements (0-8 hrs)

9. Approved Technical Electives

10. University Minimum Graduation Requirements

INFO:

- 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, or EET 3086 Principles of Electrical Circuits 4 hrs
- Complete the General Education Program, the Gordon Rule, the A maximum of 45 hours of extension, correspondence, CLEP, or EET 3086 Principles of Electrical Circuits 4 hrs

UCF Degree Programs

CLAST, and nine semester hours of Summer credit (if applicable)

Total Semester Hours Required: 128 hrs

Related Programs: none

Related Minors: Interdisciplinary Informatics Technology, Secure Computing and Networks

Transfer Notes:

- Students transferring from any Florida public institution with an AA degree or with the general education program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- Students entering a UCF undergraduate program and having a previously earned baccalaureate degree from an accredited institution have thereby satisfied UCF GEP requirements. (See also the section on the GEP found elsewhere in this catalog.)
- Courses taken from Community Colleges do not substitute for Upper Division Courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information to the ENT Department for this evaluation.

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

Tentative Course Schedule for Transferring Students

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

Freshman Year

Fall 13 hrs Spring 16 hrs
ENC 1101 Composition I 3 ENC 1102 Composition II 3
MAC 1105 College Algebra 3 MAC 1144 Trigonometry 3
CET 3323C Digital Technology 3
CET 2363 Systems Applications in C 3

Sophomore Year

Fall 15 hrs Spring 16 hrs
SPC 1106 Fund of Technical Pres 3 PSC 1121 Physical Science 3
CET 4138C Digital Programmable Devices 3 CET 3383 Applied Sys Analysis I 3
CET 3010 Intro to Info Tech 3 CET 2364 Syst Applications in C 3
CET 3427 Applied Database I 3 ENC 3241 Writing For Technical professional 3
CET 3383 Applied Systems Analysis I 3 ENC 1101 Composition I 3
CET 4505 Applied Operating Systems I 3 ENC 1102 Composition II 3
CET 4333 Computer Organization & Design 3
CET 4748 Wide Area Networks I 3

Summer 6 hrs
Lower level elective (CC) 3
Lower level elective (CC) 3

Junior Year

Fall 16 hrs Spring 13 hrs
EET 3085C Electricity & Electronics 4 EET 3086 Principles of Electrical Circuits 4
CET 3323C Digital Technology 3 CET 2363 Systems Applications in C 3
STA 2023 Statistical Methods 3
CET 3383 Applied Systems Analysis I 3

Summer 9 hrs
CET 4333 Comp Org &Design 3
ENC 3241 Tech Rept Writing 3

Senior Year

Fall 12 hrs Spring 12 hrs
CET 4505 Appl Oper Sys I 3 CET 3529 Linux/Unix Sys Admin 3
CET 3752 Intro to Telephony 3 ENC 4448 Applied Proj Mgmt 3
CET 4748 Wide Area Networks I 3 Upper level elective 3
Upper level elective 3

AS to BS Track

Note: For detailed information about this program, see description in the AS to BS Program section.
U CF Degree Programs

INFORMATION TECHNOLOGY (B.S.)
College of Engineering and Computer Science
School of Electrical Engineering & Computer Science

Harris Corp Engineering Ctr., Rm 246, 407-823-2787; Fax: 407-823-5419
www.eecs.ucf.edu

Contact: Dr Ali Orooji, E-mail: orooji@cs.ucf.edu;
Charlese Hilton-Brown, E-mail: Chilton@mail.ucf.edu

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 Computer Science at UCF.
- 12 of the 24 Residency hours must be at the 4000-5000 level.

1. UCF General Education Program (36+3 hrs)
   A. Communication Foundations 9 hrs
      1. ENC 1101 & ENC 1102
      2. Prefer SPC 1016
   B. Cultural and Historical Foundations 9 hrs
      1. Select MAC 2147
      2. Select STA 2033
      3. Social Foundations 6 hrs
         1. Select PSY 2012
         2. Select ECO 2013
   C. Mathematical Foundations 8 hrs
      1. Select MAC 2147
      2. Select STA 2033
   D. Science Foundations 7 hrs
      1. Select PHY 2053C
      2. ANT 2511, BSC 1050, GYL 1030, GEO 1200, or MCB 1310

2. Common Program Prerequisites (12 hrs)
   MAC 2147 Math for Calculus GEP
   STA 2023 Statistical Methods I GEP
   ECO 2013 Macroeconomics GEP
   PSY 2012 General Psychology GEP
   PHY 2053C College Physics I GEP
   COP 3223 C Programming Language 3 hrs
   COP 3330 Object Oriented Programming 3 hrs
   CGS 2545C Database Concepts 3 hrs
   MAD 2104 Foundations of Discrete Mathematics 3 hrs

3. Core Requirements (34 hrs)
   COP 3502C Computer Science I 3 hrs
   COP 3503C Computer Science II 4 hrs
   EEL 3041 Circuit Analysis 3 hrs
   EEL 3520 Information Theory 3 hrs
   CGS 3269 Computer Architecture Concepts 3 hrs
   EEL 4802 Eng. Sys. S&W (Operating Systems) 3 hrs
   COP 4610L OS Laboratory 3 hrs
   CGS 3285 Computer Network Concepts 3 hrs
   or CET 4483 Intro to Local Area Network Tech.
   CDA 4506C Network Laboratory 3 hrs
   COP 4910 Frontiers of Information Technology 3 hrs
   PHI 3626 Ethics in Science and Technology 3 hrs

   A three credit internship approved by the Information Technology Program Coordinator can substitute for the Frontiers in Information Technology (COP 4910) requirement.

4. Support Courses (6 hrs)
   ENC 3241 Technical Report Writing 3 hrs
   CRW 3930 Creative Writing (section for IT majors) 3 hrs

5. Restricted Electives (15 hrs)
   15 hours of upper division courses taken outside of the information technology core requirements. At least nine of these hours must be at or above the 4000 level. The remaining six are at the 3000 level or above. These courses are in areas of the student’s choosing. The only restriction is on the level of the courses, not the departments from which they come. However, students are strongly advised to make this a cohesive set of courses. Many departments have plans whereby students can achieve a certification at 15 credits, and a minor at 18. No co-operative education or internship hours are allowed.

6. School Exit Requirements
   - Complete an exit interview with an assigned faculty advisor
   - Computer competency met by completion of major

7. Free Electives (36 hrs)

9. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after any CLEP award
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in 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 120 hrs

Related Programs: Computer Science, Computer Engineering, Management Information Systems

Related Minors and Certificates: Information Technology, Computer Science, Secure Computing and Networks, Interdisciplinary Informatics Technology

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.

FIRST YEAR

Fall 16 hrs
   ENC 1101 English Comp I 3
   MAC 2147 Math for Calculus 4
   STA 2023 Statistical Methods I 3
   ECO 2013 Macroeconomics 3
   Free Elective 3
   Spring 15 hrs
   ENC 1102 English Comp II 3
   MAD 2104 Found of Discrete Math 3
   COP 3223 C Programming 3
   Free Elective 2
   PSY 2012 Psychology 3

SECOND YEAR

Fall 16 hrs
   COP 3330 Intro to O0/Java 3
   LIT 2110 World Literature I 3
   PHY 2053C College Physics I 4
   CGS 2545C Database Concepts 3
   ECH 2000 Western Civ I 3
   Free Elective 3
   Spring 15 hrs
   COP 3503C Comp Sci I 3
   PHY 2054C College Physics II 4
   CGS 3285 Computer Network Concepts 3
   MAD 2106 Foundations of Discrete Mathematics 3

THIRD YEAR

Fall 15 hrs
   EEL 4882 Eng Sys S&W 3
   EEL 3041 Circuit Analysis 3
   ENC 3241 Tech Rept Writing 3
   CET 4483 Intro to LAN Tech or CGS 3285 Comp Network Concepts 3
   or ECH 2001 Western Civ II 3
   Free Elective 3
   Spring 12 hrs
   CGS 3269 Comp Arch Concepts 3
   COP 4610L OS Laboratory 3
   PH 3626 Adv Ethics in Sci & Tech 3
   CGS 3285 Comp Network Concepts 3
   Free Elective 3

FOURTH YEAR

Fall 15 hrs
   EEL 3520 Information Theory 3
   CDA 4506C Network Laboratory 3
   Upper division elective 3
   Upper division elective 3
   Free Elective 3
   Spring 15 hrs
   COP 4910 Frontiers of IT 3
   CRW 3930 Creative Writing 3
   Upper division elective 3
   Upper division elective 3
   Free Elective 3

INTERDISCIPLINARY STUDIES (B.A., B.S.)
Office of Interdisciplinary Studies, Cl-I, Room 302, http://www.is.ucf.edu
E-mail: ls@mail.ucf.edu
Contact: Interdisciplinary Studies Advising Team, 407-823-0144

This program may be taken online, however, there are limited area, course, and minor selections available. Advisement is required from
a member of the Interdisciplinary Studies Advising Team. Students may not be able to complete all courses online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via online courses. For more information, see http://online.ucf.edu.

Admission Requirements

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students must have declared an Interdisciplinary Studies major at least one semester before graduation
- Co-op credit cannot be used in this major
- Independent study forms must be approved by the director prior to taking an independent study or internship for use in the Interdisciplinary Studies areas. Non-approved independent studies or internships will not be counted towards the major
- Students must earn at least a “C” (2.0) in each core and restricted elective course
- Students must consult with an Interdisciplinary 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
- Students wishing to earn an Interdisciplinary Studies degree as a double, double major, or second major, must complete all restricted elective credits exclusive of the credits done for the other degree(s) or major(s), including any minors associated with that degree or degrees

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
   Prefer MGF 1106 Finite Mathematics
   Prefer STA 1060C Statistics Using Excel or STA 2014C Principles of Statistics
   (may substitute a higher level mathematics course or statistics course)
   D. Social Foundations
   E. Science Foundations

2. Common Program Prerequisites

3. Core
   *IDS 3933 Cornerstone Experience in Interdisciplinary Studies
   *IDS 4934 Capstone Experience in Interdisciplinary Studies
   *Pending availability; see an Interdisciplinary Studies advisor

4. Restricted Electives (30 hrs)
   - Students must complete two different subject area concentrations from among those specified below.
   - Students must take a minimum of 15 hours of approved courses in each selected subject area (excluding GEP courses). Courses are considered approved only when they have been reviewed by an Interdisciplinary Studies advisor and not simply when they appear on a student audit.
   - Students are required to take a minimum of 15 UCF hours, as well as 15 upper division hours, in the two areas combined.
   - See the Interdisciplinary Studies Advising Team for details regarding each area:
     - Arts
     - Behavioral and Social Sciences
     - Commerce
     - Communication
     - Computational Sciences
     - Education
     - Engineering
     - Health
     - Humanities
     - Letters and Modern Languages
     - Physical Sciences
     - Life/Biomedical Sciences
     - Public Affairs

5. Required Minor (18 hrs minimum)
   - Students must complete a minor from those offered at UCF. The minor cannot overlap with the two subject areas. Minimum hours required 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.

6. Program Exit Requirements
   - A grade of “C” or above (2.0) is required for each course in the core and restricted electives
   - Computer Competency met by CGS 1060C, STA 1060C, or other computer-related courses, or departmental assessment.

7. Foreign Language Requirements (0-8 hrs)
   - Admission-BA: Met by graduation requirement
   - Graduation-BA: Proficiency equivalent to one year of college instruction in either a foreign language or American Sign Language. Standardized examinations may be used to meet the requirement.
   - Graduation-BS: Proficiency equivalent to one semester of college instruction in a foreign language or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.
   - Note: Students entering without having met the admission requirements must do so in order to graduate

8. Electives (variable)
   - Select primarily from upper level courses, with an Interdisciplinary Studies advisor’s approval.

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

Total Semester Hours Required 120 hrs

INTERDISCIPLINARY STUDIES - ENVIRONMENTAL STUDIES TRACK (B.S.)

Office of Interdisciplinary Studies

Contact: Interdisciplinary Studies Advising Team, 407-823-0144

The Environmental Studies track is a program that prepares students for a number of interesting and challenging careers. Its interdisciplinary nature provides students with tools that can be applied across a spectrum of science, social behavior, and humanities, using the strengths of the various areas. Students seeking journalistic or artistic careers will gain a scientific background by which to understand environmental science, while students going into the sciences will appreciate the social, political, and ethical dimensions of environmental actions and policy decisions.

Admission Requirements

Degree Requirements
UCF Degree Programs

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared an Interdisciplinary Studies major at least one semester before graduation.
- Independent study forms must be approved by the director prior to taking an independent study or internship for use in the program; non-approved independent studies will not be counted towards the major.
- Co-op credit cannot be used in this major.
- Students must earn at least a “C” (2.0) in each required course in the core and subject areas.
- Students should consult with an Interdisciplinary Studies advisor when entering the program.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.
- Students wishing to earn an Interdisciplinary Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree.

1. UCF General Education Program (36+2 hrs)
   - Communication Foundations: 9 hrs
   - Cultural and Historical Foundations: 9 hrs
   - Mathematical Foundations: 6 hrs
     - Select MAC 1105 or higher
     - Select STA 2023
   - Social Foundations: 6 hrs
     - Select ECO 2013 or ECO 2023
     - Select SYG 2000
   - Science Foundations: 8 hrs
     - Select BSC 2010C
     - Select CHM 2045C

2. Common Program Prerequisites
   - none

3. Core for Environmental Studies (11 hrs)
   - A. Physical/Mathematical Sciences
     - CHM 2045C Chemistry Fundamentals I: GEP
     - MAC 1105 College Algebra or higher: GEP
     - PSC 1211 Physical Science I: 3 hrs
     - STA 2023 Statistical Methods I: GEP
   - B. Life Sciences
     - BSC 2010C Biology I: GEP
     - BSC 2011C Biology II: 4 hrs
     - PCB 3044/3044L Principles of Ecology & Lab: 4 hrs
   - C. Social Science & Humanities
     - ECO 2013 Principles of Macroeconomics or ECO 2023 Principles of Microeconomics: GEP
     - SYG 2000 General Sociology: GEP

4. Subject Area: Environmental Studies Fundamentals (19 hrs)
   - IDS 3150 Foundations of Environmental Studies: 3 hrs
   - ECP 3302 Economics and the Environment: 3 hrs
   - GIS 3433C GIS for Environmental Studies: 3 hrs
   - GIS 4301C Advanced GIS Applications for Environment. Studies: 4 hrs
   - PUP 3203 Environmental Politics: 3 hrs
   - SYD 4510 Environmental Sociology: 3 hrs

5. Subject Areas: Restricted Electives (18 hrs)
   - Students will complete one of the concentrations listed below. Each concentration requires a minimum of eighteen credit hours. A student completing the Environmental Studies core can reasonably expect to meet entry requirements for most electives listed.
   - Select 18 hours in one concentration.

   Sciences Concentration
   - Note: This subject area is available only to Interdisciplinary Studies - Environmental Studies track majors.

   - BCH 4053 Biochemistry I
   - BCH 4054 Biochemistry II
   - BOT 3152C Local Flora
   - BOT 3800 Ethnobotany
   - BOT 4156C Florida Wildflowers
   - BOT 4303C Plant Kingdom
   - BOT 4868C Conservation and Management of Native Plants
   - BOT 4713C Plant Taxonomy
   - BSC 4312C Marine Biology
   - CHM 3120 Analytical Chemistry
   - CCE 3098 Oceanography
   - PCB 3063 Genetics

   - PCB 3304C River Ecology
   - PCB 3314 Marine Biology
   - PCB 3442 Florida Aquatic Ecology
   - PCB 4302C Physiochemical Limnology
   - PCB 4303C Biological Limnology
   - PCB 4683 Population Biology & Evolution
   - PCB 4723 Animal Physiology
   - PCB 5045C Conservation Biology
   - PCB 5326C Ecosystems of Florida

Values, Planning, & Policy Concentration
   - Note: This subject area is available only to Interdisciplinary Studies - Environmental Studies track majors.

   - ANT 3541 Biobehavioral Anthropology
   - BOT 3800 Ethnobotany
   - ECP 4302 Economics of the Environment
   - ENC 3211 Theory and Practice of Technical Writing
   - ENC 3241 Writing for the Technical Professional
   - ENC 4360 Nature Writing
   - GIS 4053C Remote Sensing of Environment
   - INR 4351 International Environmental Law
   - PAD 3330 Urban and Regional Planning
   - RAD 4351 Issues in Environmental Program Management
   - PHI 3033 Philosophy, Religion, & Environment
   - PHI 3640 Environmental Ethics
   - PHI 4400 Philosophy of Science
   - PHI 4633 Ethics and Biological Science
   - PHM 4631 Environmental Philosophy
   - PLA 4631 Land Use and Environmental Law
   - PUP 4204 Sustainability
   - PUP 4209 Urban Environmental Policy

6. Program Exit Requirements (0-8 hrs)
   - A grade of “C” or above (2.0) is required for each course taken in the subject areas and core.
   - Computer Competency is met by completing this major.

7. Foreign Language Requirements (0-8 hrs)

Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
Graduation-BS: Proficiency equivalent to one semester of college instruction in a foreign language or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)
   - Select primarily from upper level courses, with advisor approval.

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

Total Required Hours: 120 hrs

Related Programs: Biology, Chemistry, Environmental Engineering, Political Science, Economics
Related Minors: All minors

Transfer Notes
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or use in the degree program by the Interdisciplinary Studies Advising Team. The student must provide all supporting information.
INTERDISCIPLINARY STUDIES -
LIBERAL ARTS TRACK (B.A.)
Office of Interdisciplinary Studies
CL-I, Room 302, E-mail: ls@mail.ucf.edu
http://www.is.ucf.edu
Contact: Interdisciplinary Studies Advising Team, 407-823-0144

The Liberal Arts Track is a Bachelor of Arts degree program available to advanced students seeking an individualized, interdisciplinary, non-traditional major. Students work closely with program advisors to develop a program that addresses the student's interests and goals working across disciplines. Study in the Liberal Arts is intended to develop a well-prepared individual for a variety of academic and career endeavors. The degree program is administered by the Office of Interdisciplinary Studies.

Admission Requirements

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a "C" (2.0) in each 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 Interdisciplinary Studies areas. Non-approved independent studies will not be counted towards the major.
- Students must consult with an Interdisciplinary Studies advisor before entering the program.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.
- No courses can count in more than one subject area or in a subject area and a minor.
- Students wishing to earn a Interdisciplinary Studies degree as a double degree, double major, or second major, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree.

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      9 hrs
   B. Cultural and Historical Foundations
      9 hrs
   C. Mathematical Foundations
      6 hrs
   Select MGF 1106 Finite Mathematics (may substitute a higher level math)
   Select CGS 1060C Intro to Computer Sci or STA 2014C Principles of Statistics or STA 100C Statistics Using Excel (may substitute a higher level computer science or statistics course)
   D. Social Foundations
      6 hrs
   E. Science Foundations
      6 hrs

2. Common Program Prerequisites

3. Core Requirements (3 hrs)
   One course determined between the student and Interdisciplinary Studies advisors from among courses in ethics, critical thinking, or methodologies.

4. Restricted Electives (36 hrs)
   Select one (either A or B):
   a. Complete a minor at UCF that is approved by the Interdisciplinary Studies advisors
   b. Complete an individualized minor approved by the Interdisciplinary Studies advisors

   and

   Select one (either C or D):
   c. Complete a second minor from those offered at UCF in the College of Arts and Humanities or College of Sciences
   d. Complete nine hours in each of two concentrations below:
      1. Visual and Performing Arts
      2. Life/Biomedical, Physical, and Computational Sciences
      3. Humanities, Letters and Modern Languages
      4. Behavioral, Social Sciences, Communication

5. Program Exit Requirements (3 hrs)
   Select one of these options, any of which must be approved by the Interdisciplinary Studies advisors:

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

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

Total Semester Hours Required 120 hrs

Related Programs: Interdisciplinary Studies Track, Environmental Studies Track
Related Minors: All College of Arts Humanities and College of Sciences minors

Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses.
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Interdisciplinary Studies Advising Team. The student must provide all supporting information.

INTERDISCIPLINARY STUDIES -
NANOSCIENCE & NANOTECHNOLOGY TRACK (B.S.)
Office of Interdisciplinary Studies
CL-I, Room 302, E-mail: ls@mail.ucf.edu
http://www.is.ucf.edu
Contact: Interdisciplinary Studies Advising Team, 407-823-0144

Interdisciplinary Studies Nanoscience & Nanotechnology track is a university-wide program leading to a Bachelor of Science in Interdisciplinary Studies.

Nanoscience and Nanotechnology is the study of the structure and behavior of materials at the atomic or molecular level. Through an understanding of how to manipulate atoms and molecules, it is possible to create devices and machines with unique properties and diverse applications.

The program is administered through the Office of Interdisciplinary Studies and is designed for academic flexibility. It recognizes that there are many combinations of courses that meet the needs of individual students.

Admission Requirements

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must have declared an Interdisciplinary Studies major at least one semester before graduation.
UCF Degree Programs

- 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 Interdisciplinary Studies areas. Non-approved independent studies will not be counted towards the major
- Students must earn at least a "C" (2.0) in each restricted elective course
- Students should consult with an Interdisciplinary Studies advisor when entering the program
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours
- No courses can count in more than one subject area or in a subject area and a minor

1. UCF General Education Program (36 hrs)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      1. Select MGF 1106 Finite Mathematics 3 hrs (may substitute a higher level math)
      2. Select STA 1060C Statistics Using Excel or STA 2014C Principles of Statistics 3 hrs (may substitute a higher level computer science or statistics course)
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs
      1. Prefer: PHY 2053C College Physics (prerequisites MAC 1105 and MAC 1114) or equivalent
      2. Select one class from the listed choices

2. Common Program Prerequisites
   None

3. Restrictive Electives (36 hrs)
   - Students must complete both subject area concentrations from among those specified below
   - Students must take a minimum of 18 hours of approved courses in each selected subject area (excluding GEP courses).
   - Students are required to take a minimum of 18 UCF hours, as well as 18 upper division hours, in the two areas combined
   - See the Interdisciplinary Studies Advising Team for details regarding each area

Subject Area #1
Nanoscience and Nanotechnology Area
   EMA 3691 Nanomaterials Process Engineering
   EMA 3014 Nanomaterials Characterization & Application
   PHZ 3422 Nanophyscis
   BSC 3424 Nanobiotechnology
   OSE 3490 Nanophotonics
   PHI 4690 Ethics & Societal Implications in Nanotechnology

Subject Area #2 (one of the following areas)
   - Computational Sciences
   - Engineering
   - Health
   - Life/Biomedical Sciences
   - Physical Sciences

4. Required Minor (18 hrs min)
The following suggestions are appropriate for many professional schools. Consult a departmental advisor and be cognizant of the professional school’s requirements.

Student must complete a minor from those offered below. The minor must not overlap with the area chosen for Subject area #2. (The area designation for each minor is listed in parentheses). The minor degree audit must be approved by, and completion of the minor certified by, the department offering the minor.

- Aerospace Studies (Engineering)
- Computer Science (Computational Sciences)
- Astronomy (Physical Sciences)
- Biology (Life/Biomedical Sciences)
- Chemistry (Physical Sciences)
- Cognitive Science (Interdisciplinary)
- Information Technology (Computational Sciences)
- English-Technical Writing (Letters and Modern Languages)
- Environmental Studies (Interdisciplinary)
- Health Science (Health)
- Mathematics (Computational Sciences)
- Molecular Biology & Microbiology (Life/Biomedical Sciences)
- Physics (Physical Sciences)
- Psychology (Behavioral and Social Sciences)
- Space Studies (Engineering)
- Statistics (Computational Sciences)

5. Departmental Exit Requirements
   - A grade of “C” or above (2.0) is required for each courses taken in each of the subject areas
   - Computer Competency met by completion of track area and minor requirements.

6. Foreign Language Requirement (0-8 hrs)
   Admission-BS: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.
   Graduation-BS: Proficiency equivalent to one semester of college instruction on a foreign language or one course with a multicultural dimension

Note: Students entering without having met the admission requirements must do so in order to graduate

7. Electives (variable)
   Select primarily from upper level courses, with an Interdisciplinary Studies advisor’s approval.

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

Total Semester Hours Required 120 hrs

Related Programs: Interdisciplinary Studies Track, Environmental Studies Track

Related Minors: Aerospace Studies, Applied Computer Science, Astronomy, Biology, Chemistry, Computer Science, Environmental Studies, Health Science, Mathematics, Molecular Biology and Microbiology, Physics, Psychology, Space Studies, Statistics

Transfer Notes:
   - Courses taken at community colleges do not substitute for Upper Division courses.
   - Transfer courses must be evaluated for equivalency credit and/or use in the degree program by the Interdisciplinary Studies Advising Team. The student must provide all supporting information.

INTERDISCIPLINARY STUDIES - WOMEN’S STUDIES TRACK (B.A.)
Office of Interdisciplinary Studies
CL-I, Room 302, E-mail: is@mail.ucf.edu
http://www.is.ucf.edu
Contact: Interdisciplinary Studies Advising Team, 407-823-0144

Women’s Studies Program
Colbourn Hall 411
http://www.cah.ucf.edu/womensstudies
E-mail: womenst@pegasus.cc.ucf.edu
Contact: Lisa Logan, 407-823-6502

Interdisciplinary Studies - Women’s Studies track is a broadly based interdisciplinary curriculum which leads to the Bachelor of Arts degree in Interdisciplinary Studies. The program is administered through the Office of Interdisciplinary Studies and the Women’s Studies Program in the College of Arts and Humanities.

Admission Requirements None

Degree Requirements
   - Students who change degree programs and select this major must adopt the most current catalog.
   - Students must have declared an Interdisciplinary Studies major - Women’s Studies track at least one semester before graduation.
   - Independent study forms must be approved by the director prior to taking an independent study or internship for use in the
Interdisciplinary 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 an Interdisciplinary 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.
- Students wishing to earn an Interdisciplinary Studies degree as a double degree, double major, or second degree, must complete all fifty-four credits exclusive of credits done for the other degree(s) and/or major(s), including any minors associated with that degree.

1. **UCF General Education Program** (36 hrs)
   - **A. Communication Foundations** 9 hrs
   - **B. Cultural and Historical Foundations** 9 hrs
   - **C. Mathematical Foundations** 6 hrs
   - Select MGF 1106 Finite Mathematics (may substitute a higher level math)
   - Select 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)** (18 hrs)
   - WST 3490 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
     - AML 3862 Ethnic Literature in America
     - SYD 3751 North American Indian Women Today
   - Other courses approved by the Interdisciplinary 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 3662 Ethnic Literature in America
     - AML 4231 Literature of the South
     - ANT 3212 Peoples of the World
     - CCJ 4463 Cultural Diversity in Criminal Justice
     - CCJ 4891 Domestic Violence and the Justice System
     - EUH 3242 Modern Europe and the First World War
     - EUH 5937* Social Theory/History*
     - HSC 3593 HIV/AIDS: A Human Concern
     - LIT 5556 Feminist Theory*
     - LIN 4643 Cross Cultural Communication
     - 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 3784 Psychology of Diversity
     - SYD 3720 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 4732 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 depart-

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4. **Required Minor** (18 hrs)
   - Students must complete the Women's Studies minor

5. **Program Exit Requirements**
   - **A. Communication Competency**
   - **B. Cultural and Historical Competency**
   - **C. Mathematical Competency**
   - **D. Social Competency**
   - **E. Science Competency**

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6. **University Minimum Exit Requirements**
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 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)

7. **Electives** (variable)
   - Select primarily from upper level courses, with Interdisciplinary Studies advisor's approval. May be outside of Women's Studies.

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**Total Semester Hours Required** 120 hrs

**Related Programs:** Interdisciplinary Studies - Interdisciplinary Studies track; Interdisciplinary Studies - Liberal Arts track

**Related Minors:** Anthropology in Multicultural Studies

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Transfer Notes:
- Courses taken at community colleges do not substitute for Upper Division courses
- Transfer courses must be evaluated for equivalency credit and/or for use in the degree program by the Interdisciplinary Studies Advising Team. The student must provide all supporting information.
### 1. UCF General Education Program (36 hrs)

A. Communication Foundations
- Select ENC 1101 & ENC 1102 6 hrs
- Select SPC 1600 3 hrs

B. Cultural and Historical Foundations (9 hrs)
- Select SPC 1600 or STA 1060C 9 hrs

C. Mathematical Foundations
- Prefer MGF 1106 (may substitute a higher level math) 3 hrs
- Select STA 1060C 3 hrs

D. Social Foundations (6 hrs)
- Select SPC 1600 6 hrs

E. Science Foundations (6 hrs)
- Select primarily from upper level courses. May be taken outside of the School of Communication.

### 2. Common Program Prerequisites (0 hrs)

- SPC 1600 Fund of Oral Communication

### 3. Core Requirements (15 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>STA 1060C Basic Statistics Using Excel</td>
<td>3</td>
</tr>
<tr>
<td>STA 2014C Principles of Statistics</td>
<td>3</td>
</tr>
</tbody>
</table>

### 4. Restricted Electives (21 hrs)

#### Spring
- ENC 3241 Writing for the Technical Professional 3 hrs
- ENC 3311 Advanced Expository Writing 3 hrs
- MAR 3023* req# 5-Ext RE 3
- STA 2014C Prin of Statistics 3 hrs
- STA 4462* req# 4-ResElec 3

#### Fall
- ENC 3241 Writing for the Technical Professional 3 hrs
- ENC 3311 Advanced Expository Writing 3 hrs
- MAR 3023* req# 5-Ext RE 3
- STA 2014C Prin of Statistics 3 hrs
- STA 4462* req# 4-ResElec 3

### 5. External Restricted Electives (6 hrs)

#### Spring
- ENC 3241 Writing for the Technical Professional 3 hrs
- ENC 3311 Advanced Expository Writing 3 hrs

#### Fall
- ENC 3241 Writing for the Technical Professional 3 hrs
- ENC 3311 Advanced Expository Writing 3 hrs

### 6. School Exit Requirements

- Achieve a “C” (2.0) or better average GPA in Nicholson School courses
- To avoid graduation delays, meet with your advisor to review graduation requirements before registering for your last term
- Computer Competency met by achieving a “C” (2.0) or better in CGS 2100CC, CGS 2585C, CGS 3175, or by departmental assessment
- Before applying to graduate, the CLAST must be completely satisfied.

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

- Admission: Met by graduation requirement

### 8. Electives (variable)

- Select primarily from upper level courses. May be taken outside of the School of Communication.

### 9. University Minimum Exit Requirements

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

### Total Semester Hours Required

120 hrs

### Related Minors: Mass Communication, Interpersonal Communication, Organizational Communication

**Transfer Notes:**
- Lower division 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.
- Consult a departmental advisor for alternate, new or more appropriate selections.

### Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

### Freshman Year

#### Fall
- ENC 1101 ICS 3
- ENC 1102 ICS II 3
- STA 2014C 3
- STA 3001C 3
- STA 3711C 3

#### Spring
- ENC 1001C 3
- ENC 1002C 3
- ENC 1003C 3
- ENC 1004C 3
- ENC 1005C 3

### Sophomore Year

#### Fall
- ENC 3115C 3
- ENC 3116C 3
- ENC 3117C 3
- ENC 3118C 3
- ENC 3119C 3

#### Spring
- ENC 3120C 3
- ENC 3121C 3
- ENC 3122C 3
- ENC 3123C 3
- ENC 3124C 3

### Junior Year

#### Fall
- ENC 3220C 3
- ENC 3221C 3
- ENC 3222C 3
- ENC 3223C 3
- ENC 3224C 3

#### Spring
- ENC 3230C 3
- ENC 3231C 3
- ENC 3232C 3
- ENC 3233C 3
- ENC 3234C 3

### Senior Year

#### Fall
- ENC 3340C 3
- ENC 3341C 3
- ENC 3342C 3
- ENC 3343C 3
- ENC 3344C 3

#### Spring
- ENC 3440C 3
- ENC 3441C 3
- ENC 3442C 3
- ENC 3443C 3
- ENC 3444C 3
UCF Degree Programs

JOURNALISM (B.A.)
College of Sciences
Nicholson School of Communication
COM 244, 407-823-2839
http://communication.cos.ucf.edu/journ
E-mail: journalism@ucf.edu
Contact: Fred Fedler

Admission Requirements

Students should apply to become Journalism majors only after completing all requirements for admission. Deadlines are:
- October 1 to be admitted the next Spring term
- February 1 to be admitted the next Summer term
- July 1 to be admitted the next Fall term

Admission is based on multiple factors, not strictly GPA.

Attain an overall minimum 2.25 GPA based on a minimum of 30 credit hours of college work. NOTE: Meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis.

Meet a grammar proficiency standard. Students with an "A-" or better in both ENC 1101 and ENC 1102 have satisfied the requirement. All others must pass a grammar proficiency exam administered by UCF's Counseling and Testing Center.

Have acceptable keyboard skills.

Submit a letter demonstrating commitment to the field.

Degree Requirements

Students who change degree programs (other than from Journalism Pending) and select this major must adopt the most current catalog.

The Journalism faculty strongly recommends that majors work for a student newspaper.

Journalism majors may obtain an off-campus internship with a commercial weekly or daily newspaper or with a magazine.

To receive credit for an internship, students must have a 2.5 GPA in their required major courses. Students with less than a 2.5 GPA will not be given academic internship credit.

Students can enroll in a maximum of three 2-credit internship.

However, the internship must be with different employers. Each internship must be approved by and supervised by a Journalism faculty advisor.

Students cannot exceed a total of seven credits of internship, Co-op, and practicum credits combined.

A portfolio of representative work must be submitted to, and approved by, a faculty committee at least one semester before graduation. At least 75% of the work must be produced while at UCF.

Co-op or internship credit cannot be used in this major without prior approval.

Students should consult with a school advisor.

School Residency Requirement consists of at least 24 semester hours including JOU 2100C and regularly scheduled 3000-4000 level courses taken from the UCF Nicholson School of Communication.

All students are required to pay a fee for equipment insurance.

Of the 120 hours required for graduation, 80 hours must be taken outside of the Nicholson School of Communication.

Of these 80 hours, 65 must be taken in the liberal arts (i.e. within the College of Arts & Humanities or the College of Sciences).

To ensure completion within 120 hours and to comply with the 80 hour rule, no more than 40 (or 43 if a GEP speech class was taken at UCF) of the 120 hours may be taken within the Nicholson School of Communication

Journalism majors must select their required minor from outside the School of Communication to remain below the 40 credit hour school maximum.

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

1. UCF General Education Program (36 hrs)
   A. Communication Foundations
      - Select ENC 1101 & ENC 1102
      - Select SPC 1600 or SPC 1016
      - 6 hrs
   B. Cultural and Historical Foundations
      - Select ENC 1102
      - 3 hrs
   C. Mathematical Foundations
      - Select MGF 1106 (may substitute a higher level math)
      - prefer CGS 1060C or STA 2041C
      - 3 hrs
   D. Social Foundations
      - 6 hrs

2. Common Program Prerequisites: (0 hrs)
   Select one course
   - SPC 1016 Fund of Technical Presentations or
   - SPC 1600 Fund Oral Communication

3. Common Core requirements (15 hrs)
   - JOU 2100C News Reporting 3 hrs
   - JOU 3201 Editing I 3 hrs
   - MMC 3200 Mass Communication Law 3 hrs
   - JOU 4700 Journalism Ethics 3 hrs
   - JOU 4342C Converged Journalism 3 hrs
   *Grammar Proficiency must be satisfied.

4. Specialization: Select one area
   4.1 Newswriting (17-18 hrs)
    a. Required courses
       - JOU 3184C Metro Reporting 3 hrs
       - JOU 3101 Advanced Reporting 3 hrs
       - JOU 4181 Public Affairs Reporting 3 hrs
    *Must earn at least a "C" (2.0) to enroll in subsequent courses
   b. Directed Electives (Select from the following) 8-9 hrs
      - MMC 2004 Mass Media
      - JOU 3004 History of American Journalism
      - PGY 3610C Photojournalism I
      - JOU 3202 Editing II
      - JOU 3313C Sports Reporting
      - JOU 4224 Magazine Editing and Production
      - JOU 4300 Feature Writing
      Any other JOU prefix writing elective, or one 2 credit JOU internship

4.2 Visual Communication (17-18 hrs)
   a. Required courses
      - VIC 3001 Visual Communication 3 hrs
      - JOU 4213C Page Design 3 hrs
      - JOU 4211C Informational Graphics 3 hrs
      - PGY 3610C Photojournalism I
   b. Directed Electives (Select from the following) 5-6 hrs
      - MMC 2004 Mass Media
      - JOU 3004 History of American Journalism
      - JOU 4304 On-line Journalism
      - PGY 3620C Photojournalism II
      - PGY 3630 Photojournalism III
      - CGS 2585C Desktop/Internet Publishing
      - JOU 3930 or JOU 4941 Internship
      (2 credits maximum)

4.3 Editing (17-18 hrs)
   a. Required courses
      - JOU 3202 Editing II 3 hrs
      - JOU 4213C Page Design 3 hrs
      - JOU 3101 Advanced Reporting 3 hrs
      - JOU 4211C Informational Graphics 3 hrs
   b. Directed Electives (Select from the following) 5-6 hrs
      - MMC 2004 Mass Media
      - PGY 3610C Photojournalism I
      - JOU 3004 History of American Journalism
      - JOU 4224 Magazine Editing and Production
      - VIC 3001 Visual Communication
      Any other JOU prefix writing elective, or one 2 credit JOU internship

Minor: (18 hrs min)
Journalism majors must complete an 18 hour minor in an academic area outside of the School of Communication. When no official minor is offered, students may complete an 18-credit-hour area concentration approved by the Faculty.

6. School Exit Requirements
   - Acceptance of portfolio by faculty
   - To avoid delaying graduation, you must request a review of requirements before registering for your last term
   - Achieve an overall "C" GPA (2.0) in courses taken within the school used to satisfy the major.
   - Computer Competency met by CGS 1060C or by departmental assessment.
   - Before applying to graduate, the CLAST must be completely satisfied.
7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement
Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

8. Electives (variable)
Select primarily from upper level courses, with school advisor’s approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

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

Total Semester Hours Required 120 hrs

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

LEGAL STUDIES (B.A., B.S.)
College of Health and Public Affairs
HPA1 311, 407-823-2603
http://www.cohpa.ucf.edu/crim.jus/

Undergraduate Program Director and Pre-Law Advisor: David Slaughter, E-mail: dslaught@mail.ucf.edu

Admission Requirements: none

Degree Requirements:
- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor

The courses designated in section 1 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours.
- 33 hours of PLA coursework must be taken at UCF
- 2.0 in all PLA work at UCF and overall

1. UCF General Education Program (36 hrs)
A. Communication Foundations 9 hrs
   1. ENC 1101 & ENC 1102
   2. Prefer SPC 1600
B. Cultural Historical Foundations 9 hrs
   1. Cultural Foundations
   2. Mathematical Foundations 6 hrs
   3. Social Foundations 6 hrs
   4. E. Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Core Requirements (21 hrs)
   PLA 3013 Law and the Legal System 3 hrs
   PLA 3104 Legal Research 3 hrs
   PLA 3155 Legal Writing 3 hrs
   PLA 3201 Civil Practice and Procedure 3 hrs
   PLA 3610 Property and Real Estate Law 3 hrs
   PLA 4700 Professional Ethics and Liability 3 hrs
   PLA 4935 Capstone: Legal Issues 3 hrs

Note: All core requirements must be completed with a minimum grade of “C” (2.0) to satisfy the major.

4. Upper Division Restricted Electives (21 hrs)
21 additional hours of Legal Studies coursework selected in consultation with an advisor

5. Supporting Courses (9-15 hrs)
Students pursuing the B.A. degree must complete nine semester hours of supporting courses chosen with the approval of the student’s advisor. Students pursuing the B.S. degree must complete 15 hours of supporting courses chosen with the approval of the student’s advisor.

6. Specializations
Students may earn a specialization within the general program of study. The specializations do not substitute for the general legal studies degree requirements; they are earned within the general program by selecting particular courses to satisfy the legal studies restricted electives and supporting courses requirements. Students are not required to declare a specialization. The following specializations are offered:
- Law and Society
- Litigation and Advocacy
- Public Law
- Sports and Entertainment Law
- Criminal Law and Individual Liberties
- Estates and Property Law
- Comparative and International Law
- Commercial and Transactional Law

A student may earn a maximum of two specializations. Specific course requirements are available at the department office or from the student’s advisor.

7. Departmental Exit Requirements (120 hrs)
Students must take a minimum of 33 hours of PLA courses at UCF. The total semester hours required is 120.

8. Electives (variable)
The following electives must be completed with a minimum grade of “C” (2.0): PLA 4020, PLA 4240, PLA 4910

9. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year at college level.

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

Total Semester Hours Required 120 hrs

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
**LIBERAL STUDIES**

Note: See Interdisciplinary Studies.

**MANAGEMENT (B.S.B.A.)**

College of Business Administration

BA2 101, 407-823-2184

http://www.bus.ucf.edu

1. Admission Requirements

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)

   - Communication Foundations (9 hrs)
     - Required: SPC 1600
   - Cultural and Historical Foundations (9 hrs)
     - Select MAC 1105 College Algebra
   - Mathematical Foundations (3 hrs)
     - Select CSE 2100 Computer Fundamentals for Bus
   - Social Foundations (3 hrs)
     - Select ECO 2033 Microeconomics or ECO 2023 Macroeconomics
     - Select one: PSY 2012, SYG 2000, ANT 2000 (3 hrs)
   - Science Foundation (6 hrs)

2. Common Program Prerequisites (18-21 hrs)

   - Must be completed with a "C" (2.0) or better.

   - ACG 201 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)
   - CSE 2100CC Computer Fundamentals for Business (3 hrs)

   *At UCF, students who have completed MAC2233 and STA2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

   - GEB 3031 Cornerstone (Required in 1st or 2nd semester) (4 hrs)

3. Required for All Business Majors (36 hrs)

   - First or subsequent semester in the College of Business Administration:
     - GEB 3031 Cornerstone (Required in 1st or 2nd semester) (4 hrs)

4. Special college and/or department requirements:

   - Students who change degree programs and select this major must adopt the most current catalog.
   - Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each Common Program Prerequisites class.
   - Students wanting to major in Management must apply for admission to the major.
   - Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.
   - Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
   - Students must earn at least a 2.0 GPA in the major and COB.
   - Students majoring in Management must earn a grade of "C" (2.0) or better in MAN 3025, MAN 4720, and each course applied toward the major.

5. Tracks

Within the Management major, students can concentrate in 3 areas of study. Courses for each are outlined below:

- Human Resource Management Track (24 hrs)
  - Required Courses (15 hrs)
    - MAN 3301 Human Resource Management
    - MAN 4240 Organizational Theory and Behavior
    - MAN 4320 Recruitment and Selection
    - MAN 4330 Compensation Administration
    - MAN 4350 Training and Development
  - Elective Courses (9 hrs)
    - (Choose among MAN courses, BUL 4540, GEB 4111, and GEB 4117)
      - MAN Elective
      - MAN Elective
      - MAN Elective

- General Management Track (24 hrs)
  - Required Courses (15 hrs)
    - ISM 3330 Quality and Productivity Management
    - MAN 4101 Human Relations in Management
    - MAN 4240 Organizational Theory & Behavior
    - MAN 4600 International Management
    - MAN 4701 Business Ethics and Society
  - Elective Courses (9 hrs)
    - (Choose among MAN courses, BUL 4540, GEB 4111, and GEB 4117)
      - MAN Elective
      - MAN Elective
      - MAN Elective

- Management Track: Entrepreneurship (24 hrs)
  - Required Courses (15 hrs)
    - MAN 3301 Human Resources Management
    - MAN 4802 Entrepreneurship
    - GEB 4117 Business Plan Preparation
    - GEB 4111 New Venture Finance or FIN 3470 Small Business Finance
    - MAR 3641 Market Intelligence or MAR 3391 Professional Selling
  - Elective Courses (Choose among MAN courses and BUL 4540)
    - MAN Elective
    - MAN Elective
    - MAN Elective

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
UCF Degree 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 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit (if applicable)

8. Electives*** (variable)

Total Semester Hours Required: 120 hrs

Transfer Notes
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- Common Program Prerequisites for the State University System for College of Business Administration programs include Financial Accounting, Managerial Accounting, Microeconomics, Calculus, Statistics, and a relevant computer class. At UCF Business, students who have completed the calculus and statistics class will be waived from Quantitative Business Tools I. Students who have completed either the calculus or the statistics, but not both, must take Quantitative Business Tools I.
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Business program. Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
- ACG X001 and X011 will substitute for ACG 2021 at UCF.
- Florida Public Community College students are advised to complete the Associate of Arts degree, to include the general education requirements, the common program prerequisites for the SUS system, and college algebra.
- 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 MAJORS

<table>
<thead>
<tr>
<th>Freshman</th>
<th>1st Term</th>
<th>15 hrs</th>
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<td><strong>Elective</strong></td>
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<td></td>
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<tr>
<td>* &quot;C&quot; (2.0) or better grade required in each class</td>
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Student should choose to major in one of the two areas of study below

GENERAL MANAGEMENT TRACK

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<th>Junior</th>
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**Students select three electives from among MAN courses and BUL 4540.**

**General electives as required to reach 120 semester hours.**

HUMAN RESOURCE MANAGEMENT TRACK

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| **Students select three electives from among MAN courses and BUL 4540.**
| **General electives as required to reach 120 semester hours.**

ENTREPRENEURSHIP TRACK

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</table>
| **Students select three electives from among MAN courses and BUL 4540.**
| **General electives as required to reach 120 semester hours.**

MANAGEMENT INFORMATION SYSTEMS (B.S.B.A.)

College of Business Administration

BA2 101, 407-823-2184

http://www.bus.ucf.edu

Admission Requirements
- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

Degree Requirements

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural and Historical Foundations 9 hrs
   - C. Mathematical Foundations 3 hrs
   - D. Social Foundations 3 hrs
   - E. Science Foundation 6 hrs

2. Common Program Prerequisites (18-21 hrs)
   - Must be completed with a 2.0 or better.
     - ACG 2021 Principles of Financial Accounting 3 hrs
     - ACG 2071 Principles of Managerial Accounting 3 hrs
     - ECO 2013 Microeconomics 3 hrs
     - ECO 2023 Microeconomics 3 hrs
     - CGS 2100CC Computer Fundamentals for Business 3 hrs
     - ECO 3401 Quantitative Business Tools I 3 hrs
     - ECO 2023 Microeconomics 3 hrs
     - Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
     - Science Foundation 6 hrs

3. Required for All Business Majors (36 hrs)
   - First or subsequent semester in the College of Business Administration:
     - GEB 3031 Cornerstone (Required in 1st or 2nd semester) 4 hrs
     - GEB 3356 Introduction to International Business 4 hrs
     - BUL 3130 Legal & Ethical Environments of Business 4 hrs
     - ECO 3411 Quantitative Business Tools II 4 hrs
     - MAN 3025 Management of Organizations 4 hrs
     - MAR 3023 Marketing 4 hrs
4. Special college and/or department requirements:

- Students who change degree programs and select this major must adopt the most current catalog.
- Students desiring to major in Management Information Systems must apply for admission to the major and have at least a 2.0 GPA in Common Program Prerequisites.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration. Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- All courses required for the major (including electives) must be completed with a grade of “C” (2.0) or better in order to graduate.
- All College of Business Administration students are expected to have access to late model computers and the software needed to complete class assignments. This requirement is especially important for MIS majors. Contact a department advisor for the current expectations.
- Students are cautioned to study the course prerequisite structure and the Four Year Plan of Study later in this section when planning their schedules. MIS course prerequisites cannot be waived.
- Lower division courses may not be taken for upper division credit in the major.
- Students must earn at least a 2.0 GPA in the major and COB.
- Only grades of “C” (2.0) or higher transfer into the program and students must have a “C” (2.0) or better in each common program prerequisite class.

5. Required Courses (20 hrs)

- ISM 3253 MIS Techniques 4 hrs
- ISM 4113 Information Systems Analysis & Design 3 hrs
- ISM 4212C Database Management Systems 4 hrs
- ISM 4220 Distributed Information Systems 3 hrs
- ISM 4300 Information Technology Management 3 hrs
- ISM 4400 Decision Support Systems 3 hrs

Plus one of the following: (6 hrs)

- Any 3000 or 4000 level ISM prefix course.

6. Foreign Language Requirements (0-8 hrs)

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

**Graduation:** none

7. University Minimum Exit Requirements

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

8. Electives*** (variable)

**Total Semester Hours Required** 120 hrs

**Transfer Notes**

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- 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 requirement, the common program prerequisites for the SUS system, and college algebra.
- 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**

1st Term 15 hrs 2nd Term 15 hrs

- ENC 1101* 3
- Cult-Hist I 3
- SPC 1600 3
- **Elective** 3
- **Elective** 3
- **Elective** 3

**Upper Division (6 hrs)**

- Must complete nine hours in a summer semester

**Sophomore**

1st Term 15 hrs 2nd Term 15 hrs

- ECO 2023* 3
- ACG 2021* 3
- Science 3
- Psy/SocArt 3
- **Elective** 3
- **Elective** 3
- **Elective** 3
- **“C” (2.0) or better grade required in each class**

**Junior**

1st Term 17 hrs 2nd Term 16 hrs

- GEB 3031 6
- MAR 3023 3
- ISM 3253 4
- ISM 4212C 4
- GEB 3356 3
- ISM 4220 3
- ISM 4400 3
- ISM 4113 3
- SPC 1600 3
- Art/Music/Lit 3
- **General electives as required to reach 120 semester hours.**

**Senior**

1st Term 15 hrs 2nd Term 15 hrs

- ISM Elective 3
- FIN 4043 3
- **Elective** 3
- **Elective** 3
- MAN 3025 3
- **Elective** 3
- ISM 4113 3
- BUL 3130 3

**Graduation: none**

**MARKETING (B.S.B.A.) – GENERAL PROGRAM**

**College of Business Administration**

**BA2 101, 407-823-2184**

http://www.bus.ucf.edu

**Admission Requirements**

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites

**Degree Requirements**

**1. UCF General Education Program** (36 hrs)

- A. Communication Foundations 9 hrs
  - Required SPC 1600
- B. Cultural and Historical Foundations 9 hrs
- C. Mathematical Foundations 3 hrs
  - Select MAC 1105 College Algebra
  - Select CGS 2100C Computer Fundamentals for Bus
- D. Social Foundations 3 hrs
  - Select ECO 2013 Macroeconomics or
2007-2008 Undergraduate Catalog

UCF Degree Programs

ECO 2023 Microeconomics
Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
E. Science Foundation 6 hrs

2. Common Program Prerequisites (18-21 hrs)
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 ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Required for All Business Majors (36 hrs)
First or subsequent semester in the College of Business Administration:
GEB 3031 Cornerstone (Required in 1st or 2nd semester) 4 hrs
GEB 3356 Introduction to International Business 4 hrs
BUL 3130 Legal & Ethical Environments of Business 4 hrs
ECO 3411 Quantitative Business Tools II 4 hrs
FIN 3403 Business Finance 4 hrs
MAN 3025 Management of Organizations 4 hrs
ISM 3011 Essentials of Management Information Systems 4 hrs
MAR 3023 Marketing 4 hrs

Last Semester:
MAN 4720 Strategic Management 4 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 Marketing must apply for admission to the major.
- Final exams will be given during Exam Week.
- Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.
- Additionally, 12 of the 30 credit hours completed at UCF must be from the department or school in which the student majors.
- Students majoring in Marketing must earn a grade of "C" (2.0) or better in each course applied toward the major, and a 2.0 overall average in the major. MAR 3023 is included in this requirement.
- Students must earn at least a 2.0 GPA in the major and CBA.

5. Required Courses (18 hrs)
MAR 3391 Professional Selling 3 hrs
MAR 3503 Customer Behavior 3 hrs
MAR 3613 Marketing Analysis and Research 3 hrs
MAR 3641 Marketing Intelligence 3 hrs
MAR 4003 Marketing Management 3 hrs
MAR 4004 Marketing Strategy 3 hrs

6. Restricted Electives - General Marketing (6 hrs)
Minimum of 2 courses required:
MAR 2223 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 4715 Entertainment Marketing 3 hrs
*MAR 4724 Strategic Foundations 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. Restricted Electives-Sales Track* (9 hrs)
Students must take:
MAR 3403 Sales Force Management 3 hrs
MAR 4392 Advanced Professional Selling 3 hrs
MAR 4413 Strategic Issues in Sales 3 hrs

*Admission by department approval: Restricted to declared marketing majors. Requires submission of application by May 1. Must have earned a grade of B (3.0) or higher in MAR 3391 to apply. Department faculty committee will select a maximum of 40 sales track participants based on academic achievement, work experience, outside activities and leadership positions, and responses to questions on the application form. MAR 4392 is offered in the fall semester; MAR 4413 is offered in the spring semester.

8. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

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

10. Electives*** (variable)
Total Semester Hours Required 120 hrs
Majors who meet departmental criteria are also eligible to apply for a marketing internship (MAR 4941). 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/mark/.

Transfer Notes
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- 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.
- 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 – GENERAL MARKETING

Freshman
1st Term 15 hrs 2nd Term 15 hrs
ENC 1101* 3 ENC 1102* 3
Cull Hist I* 3 Cull Hist II* 3
SPC 1000 3 Art or Music 3
***Elective*** 3 MAC 1105* 3
***Elective*** 3 CGS 2100C 3

Sophomore
Must complete nine hours in a summer semester
1. UCF General Education Program (36+2 hrs)
(Continued)
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
1. Select MAC 2311 4 hrs
2. Select COP 3020C 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations
1. Select PHY 2048 & L 4 hrs
2. Select a listed course 3 hrs

2. Common Program Prerequisites (15 hrs)
COP 3223* Intro to Programming with C 3 hrs
MAC 2311 Calculus with Analytic Geo I GEP
MAC 2312 Calculus with Analytic Geo II 4 hrs
MAC 2313 Calculus with Analytic Geo III 4 hrs
PHY 2049* & L Physics for Sci & Eng I w/lab 4 hrs
PHY 2049* & L Physics for Sci & Eng II w/lab 4 hrs
*See Transfer Notes for possible substitutes

3. Core requirements (48 hrs)
PHY 2049 & L Physics for Sci & Eng I w/lab GEP
PHY 2049 & L Physics for Sci & Eng II w/lab CPP
One course selected from
ENC 3241 Writing for Technical Professions
ENC 3310 Magazine Writing I
ENC 3311 Advanced Expository Writing
ST 2033 Statistical Methods I
MSP 3202 Logic and Proof in Mathematics 3 hrs
MAP 3202 Differential Equations 3 hrs
MAS 3105 Matrix & Linear Algebra 4 hrs
MAS 3106 Linear Algebra 4 hrs
Select one course
MAD 4203 Combinatorics & Graph Theory I 3-4 hrs
MAP 4153 Tensor and Vector Analysis
MAP 4307 Appl of Complex Variables 3 hrs
MAP 4312 Mathematical Modeling I
MAP 4313 Statistical Theory I 3 hrs
STA 4321 Statistical Theory I 3 hrs
STA 4322 Statistical Theory II 3 hrs
MAD 4225 Advanced Calculus I 4 hrs
MAD 4250 Numerical Calculus 3 hrs
MAP 4103 Mathematical Modeling I 3 hrs

4. Restricted Electives (6 hrs)
a. Applied Elective 3 hrs
Select from COT 4210, COT 4400,
COT 5507, COT 5510, EGN 3310,
EGN 3321, EGN 3343, EGN 3373,
STA 4102, STA 5103, STA 4643
b. Biological or physical sciences Elective 3 hrs
Note: Students must satisfy core prerequisites before enrolling
Select from PCB 3044, PCB 3063,
PCB 4302C, PCB 4303C, CHM 3410,
CHM 2210, PHY 3101, PHY 3323,
PHY 4254, PHY 4264, PHY 4604

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.
Computer Competency met by COP 2200
Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

7. Electives
(variable)
UCF Degree Programs

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

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

Total Semester Hours Required: 120 hrs

Related Programs: Applied Math, Computer Science, Engineering, Math Education, Statistics
Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

Transfer Notes:
■ Lower division 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
■ PHY 2048* & PHY 2049 with labs: may use any PHY, CHM or BSC course with a lab designed for science majors; however, PHY 2048 & PHY 2049 with labs are core requirements and still must be taken.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
Math placement See catalog 0

Freshman Year
Fall
ANT 2000* req# 1D2-GEPE-3
ENC 1101 Composition I 3
MAC 2311 Calculus with Analytic Geo I 4
STA 2023 Stat Methods I 3
Spring
BSC 1005* req#1E2 GEP 3
COP 3223* Intro to Programming with C 3
PHY 2048* &L Physics for Sci & Eng I w/lab 4

Sophomore Year
Fall
COM 1000* req# 1A3-GEPE 3
PHY 2048 Phy for Eng Sci I 3
MAC 2313 Calc Anal Geo III 4
MAS 3105 Matrix and Lin Alg 3
Spring
POS 2041* req# 1D1-GEPE 3
MAP 2302 Diff Equations 3
MTH 3302 Linear Algebra 3
PHY 2049 Phy for Eng Sci II w/lab 4

Junior Year
Fall
AMH 2010* req# 1B1-GEPE 3
COP 3223 Intro to Proc C 3
MAD 4203* req# 3-Core 3
MAP 4363 Ap Bound Prob I 3
Elective* Check restrictions 4
Spring
COP 3502C Computer Science I 3
MAP 4307 Appl complex var 3
MTH 4210* req# 4a-ResElec 3
Elective* Check restrictions 4

Senior Year
Fall
ARM 2050* req# 1B3-GEPE 3
COT 4500 Numerical Calculus 3
MAA 4226 Adv Calculus I 4
STA 4321 Stat Theory I 3
Spring
COT 4100* req# 4a-ResElec 3
ENG 3241* req# 3-Core 3
MAY 4303 Ap Bound Theory II 3

5. Restricted Electives
Select six upper division courses

MATHEMATICS - COMPUTATIONAL TRACK (B.S.)

College of Sciences
Department of Mathematics, MAP 207, 407-823-6284
http://math.ucf.edu
E-mail: math@mail.ucf.edu
Contact: H. Martin, MAP 215A, 407-823-5700, E-mail: martin@math.ucf.edu

The Department of Mathematics offers courses identified by a suffix of H for students in the Honors Program; e.g., MAC 2311H, MAC 2312H, MAC 2313H, 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, MAC 2312, MAC 2313, and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
■ Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
■ Students must earn at least a “C” (2.0) in each required course.
■ Co-op or internship credit cannot be used in this major.
■ Students should consult with a departmental advisor.

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

1. UCF General Education Program (36 + 2 hrs)
*(Note: Certain courses must be selected for this major, bringing GEP hours above 36)

A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations 4 hrs
1. Select MAC 2311
2. Select COP 3502C
D. Social Foundations 6 hrs
E. Science Foundations 4 hrs
F. Departmental Residency Requirement: at least 24 hours of upper division credit

2. Common Program Prerequisites (15 hrs)
*(See Transfer Notes for possible substitutes)

E.g.: COP 2227 Intro to Programming with C
MAC 2311 Calculus with Analytic Geo I
MAC 2312 Calculus with Analytic Geo II
MAC 2313 Calculus with Analytic Geo III
PHY 2049&L Physics for Sci & Eng I w/lab
PHY 2049&L Physics for Sci & Eng II w/lab

3. Basic Core Requirements (6 hrs)

E.g.: COP 3502C Computer Science I
PHY 2048&L Physics for Sci & Eng I w/lab
PHY 2049&L Physics for Sci & Eng II w/lab
STA 2023 Statistical Methods I
MAP 2302 Differential Equations

4. Advanced Core Requirements (43 hrs)
*(Select one course)

E.g.: MTH 3302 Logic and Proof in Mathematics
COT 3100C Intro to Discrete Structures
MAC 3241 Writing for the Tech Professional
MTH 3316 Linear Algebra
MAD 4203 Combinatorics & Graph Theory
MAP 4307 Appl of Complex Variables
MAP 4363 Appl Boundary Value Prob I
STA 4321 Statistical Theory I
COT 4502 Numerical Calculus
MAP 4103 Mathematical Modeling I
MAP 4153 Vector and Tensor Analysis

5. Restricted Electives (18 hrs)
Select six upper division courses

E.g.: COP 3402 Systems Software 3 hrs

Note: Certain courses must be selected for this major, bringing GEP hours above 36
PHY 2048* & PHY 2049 with labs: may use any PHY, CHM or COP 3223*: may use any programming language course with a prior to transferring to UCF:

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.
- Computer Competency met by COP 3502C.
- Before applying to graduate, the CLAST must be completely satisfied.

7. Foreign Language Requirements

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

Graduation: none

8. Electives (variable)

Students desiring to complete a double major in both Computer Science and Applied Mathematics must also complete all the requirements of the School of Computer Science. To minimize the total hours taken for both majors, students should select an advanced computer science course for the unrestricted elective.

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

Total Semester Hours Required 120 hrs

Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics

Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics

Transfer Notes:
- Lower division 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.
- PHY 2048* & PHY 2049 with labs: may use any PHY, CHM or BSC course with a lab designed for science majors; however, PHY 2048 & PHY 2049 with labs are core requirements and still must be taken.

MATHEMATICS -

ENGINEERING/PHYSICS TRACK (B.S.)

College of Sciences
Department of Mathematics, MAP 207, 407-823-6284
http://math.ucf.edu
E-mail: math@mail.ucf.edu
Contact: H. Martin, MAP 215A, 407-823-5700,
E-mail: martin@math.ucf.edu

The Department of Mathematics offers courses identified by a suffix of H for students in the Honors Program; e.g., MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

Admission Requirements
- none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- All mathematics courses except MAC 2311, MAC 2312, MAC 2313 and MAP 2302 must either be taken from, or approved by, the Department of Mathematics at UCF.
- Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
- Students must earn at least a "C" (2.0) in each required course.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in sections 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36+2 hrs)

(Note: Certain courses must be selected for this major, bringing GEP hours above 36)

A. Communication Foundations
- Communication Foundations
- 1. Select MAC 2311
- 2. Select COP 3223C

B. Cultural and Historical Foundations
- Cultural and Historical Foundations
- 1. Select MAC 2311
- 2. Select COP 3223C

C. Mathematical Foundations
- Mathematical Foundations
- 1. Select MAC 2311
- 2. Select COP 3223C

D. Social Foundations
- Social Foundations
- 1. Select MAC 2311
- 2. Select a listed course

E. Science Foundations
- Science Foundations
- 1. Select PHY 2048 & L
- 2. Select a listed course

2. Common Program Prerequisites

- Common Program Prerequisites
- 1. Select COP 3223C
- 2. Select a listed course
- 3. Select a listed course

3. Basic Core Requirements

- Basic Core Requirements
- 1. Select COP 3223C
- 2. Select a listed course
- 3. Select a listed course

4. Advanced Core Requirements

- Advanced Core Requirements
- 1. Select a listed course
- 2. Select a listed course
- 3. Select a listed course
- 4. Select a listed course

Total Semester Hours Required 120 hrs
PHZ 3113 Intro. to Theoretical Methods of Physics
or any MAA, MAD, MAP, MAS, or MTG course at 3000 level or above
Select one course 3 hrs
EGN 3331 Mechanics of Materials
CHM 2046 Chemistry Fundamentals II
ESI 4312 Operations Research
EGM 3601 Solid Mechanics
EML 4220 Vibration Analysis
EEL 3004 Electrical Networks
PHY 4604 Wave Mechanics I
or any MAA, MAD, MAP, or MAS course at 3000 level or above
Select one course 3 hrs
CES 4100C Structural Analysis I
EGN 3331 Mechanics of Materials
EIN 3000 Intro. to Indist. Eng. & Mngmnt Sys
EAS 3101 Fundamentals of Aerodynamics
EGM 3601 Solid Mechanics
EEL 3004 Electrical Networks
or any PHY, PHZ, AST, MAA, MAD, MAP, or MAS course at 3000 level or above
5. Restricted Electives (6 hrs)
Select two courses
STA 4321 Statistical Theory I 3 hrs
STA 4322 Statistical Theory II 3 hrs
PHY 3323 Electricity & Magnetism I 3 hrs
PHY 4324 Electricity & Magnetism II 3 hrs
EGM 3305 Structural & Property of Materials 3 hrs
EIN 3613 Engineering Economic Analysis 3 hrs
EEL 3342C Intro. to Digital Circuits and Systems 3 hrs
EEL 3820 Intro. to Computer Engineering 3 hrs
EEL 3657 Linear Control Systems 3 hrs
EML 4142 Heat Transfer 3 hrs
EML 4312C Feedback Control 3 hrs
EML 3262 Kinematics of Mechanisms 3 hrs
EAS 4200 Flight Structures 3 hrs
EAS 4400 Spacecraft Attitude Dynamics 3 hrs
EAS 4505 Orbital Mechanics 3 hrs
EAS 4105 Flight Mechanics 3 hrs
EML 4703 Fluid Mechanics II 3 hrs
EMA 4223 Fund. of Mechanical Behavior of Materials 3 hrs
CWR 4203C Hydraulics 3 hrs
CWR 4101C Hydrology 3 hrs
ENV 4561 Environmental Eng - Process Design 4 hrs
ECS 4224 Quality Engineering 3 hrs
ECS 4523C Systems Simulation 3 hrs
EIN 4333C Industrial Control Systems 3 hrs
EEL 3670 Electromagnetic Fields 3 hrs
EEL 3955C Analog & Digital Communication Fund. 4 hrs
EEL 4750 Digital Signal Processing Fund. 3 hrs
EEL 4767C Computer System Design I 4 hrs
EEL 4851C Eng. Applications of Computer Models 3 hrs
EML 4851C Engineering Data Structures 4 hrs
or any MAA, MAD, MAP, or MAS course at 3000 level or above
6. Departmental Exit Requirements
■ Earn a grade of “C” (2.0) or better in each course required in the degree program (sections 2-5 above).
■ Participate in an exit interview.
■ Computer Competency met by EGN 3420 or COP 3502C.
■ Before applying to graduate, the CLAST must be completely satisfied.
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 hrs
Related Programs: Applied Mathematics, Computer Science, Engineering, Math Education, Statistics
Related Minors: Applied Computer Science, Computer Science, Engineering, Math, Physics, Statistics
Transfer Notes:
■ Lower division 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.
■ PHY 2048* & PHY 2049 with labs: may use any PHY, CHM or BSC course with a lab designed for science majors; however, PHY 2048 & PHY 2049 with labs are core requirements and still must be taken.

MATHEMATICS - PURE TRACK (B.S.)
College of Sciences
Department of Mathematics, MAP 207, 407-823-6284
http://math.ucf.edu
E-mail: math@mail.ucf.edu
Contact: H. Martin, MAP 215A, 407-823-5700,
E-mail: martin@math.ucf.edu

The Department of Mathematics offers courses identified by a suffix of H for students in the Honors Program; e.g., MAC 2311H, MAC 2312H, MAC 2313H, and MAP 2302H.

Admission Requirements
none

Degree Requirements
■ Students who change degree programs and select this major must adopt the most current catalog.
■ All mathematics courses except MAC 2311, MAC 2312, MAC 2313, and MAP 2302 must either be taken from, or approved by the Department of Mathematics at UCF.
■ Departmental Residency Requirement: at least 24 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Mathematics Department.
■ Students must earn at least a “C” (2.0) in each required course.
■ Co-op or internship credit cannot be used in this major.
■ Students should consult with a departmental advisor.
■ Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 + 2 hrs)
(Note: Certain courses must be selected for this major, bringing GEP hours above 36)
A. Communication Foundations 9 hrs
B. Cultural and Historical Foundations 9 hrs
C. Mathematical Foundations
1. Select MAC 2311 4 hrs
2. Select COP 3502C 3 hrs
D. Social Foundations 6 hrs
E. Science Foundations
1. Select PHY 2048 & L 4 hrs
2. Select a listed course 3 hrs

2. Common Program Prerequisites (15 hrs)
COP 3223* Intro to Programming with C 3 hrs
MAC 2311 Calculus with Analytic Geo I GEP
MAC 2312 Calculus with Analytic Geo II 4 hrs
MAC 2313 Calculus with Analytic Geo III 4 hrs
PHY 2048&L Physics for Sci & Eng I wlab 4 hrs
PHY 2049&L Physics for Sci & Eng II wlab 4 hrs
*See Transfer Notes for possible substitutes

3. Core requirements (49 hrs)
PHY 2048&L Physics for Sci & Eng I wlab GEP
PHY 2049&L Physics for Sci & Eng II wlab CPP
One course selected from:
ENC 3241 Writing for the Tech Professional 3 hrs
UCF Degree Programs

College of Education
Department of Teaching and Learning Principles, ED 209
http://pegasus.cc.ucf.edu/~matheMD
Program Coordinator: Dr. Janet Andreasen, ED 123Q,
407-823-5430, E-mail: jandreas@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 Gordon Rule Requirement.

Degree Requirements

- Students should see an advisor prior to registering for classes
- The courses designated in 1. (General Education) and 2. (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- This is a state-approved, initial teacher preparation program designed in compliance with Florida Statutes and State Board of Education Rule 6A-5.066. Degree requirements are subject to change based on state mandates.

1. UCF General Education Program (36+1 hrs)

   A. Communication Foundation (9 hrs)
   1. ENC 1101 English Composition I 3 hrs
   2. ENC 1102 English Composition II 3 hrs
   3. Select: SPC 1600 Fundamentals of Oral Communication 3 hrs

   B. Cultural-Historical Foundation (9 hrs)
   1. Select: AMH 2010 U.S. History 1492-1877 3 hrs
   2. Select: PHI 2010 Introduction to Philosophy 3 hrs
   3. Select: AMH 2020 U.S. History 1877-present 3 hrs

   C. Mathematical Foundation (7 hrs)
   1. Select: MAC 2311 Calculus with Analytic Geometry I 4 hrs
   2. Select: STA 2023 Statistical Methods I 3 hrs

   D. Social Foundation (6 hrs)
   1. Prefer: POS 2041 American National Government 3 hrs
   2. Prefer: PSY 2012 General Psychology 3 hrs

   E. Science Foundation (6 hrs)
   1. Select: PSC 1121 Physical Science 3 hrs
   2. Select: ANT 2511 The Human Species or BSC 1005 Biological Principles 3 hrs

   Summer
   Math placement See catalog 0

   Freshman Year
   Fall
   ANT 2000* req# 1D-GE 3 BSC 1005* req#IE 2GE 3
   ENC 1101 Composition I 3 ENC 1102 Composition II 3
   STA 2023 Stat Methods I 3 MTH 2032 Logic and in Math 3

   Spring
   PHY 2048 Phy for Eng Sci I 3 MTH 2302 Diff Equations 3
   PHY 2049 Phy for Eng Sci II 1 PHY 2084L Phy Eng Sci II 1

   Sophomore Year
   Fall
   COM 1000* req# 1A-GE 3 POS 2041 req# 1D-GE 3
   PHY 2048 Phy for Eng Sci I 3 MTH 2302 Diff Equations 3
   PHY 2049 Phy for Eng Sci II 1 PHY 2048L Phy Eng Sci II 1

   Spring
   COP 3223 Intro to Prog C 3 COP 3502C Computer Science I 3
   MAP 4302 Intro to Topology 3 MAP 4307 App complex var 3
   Elective Check restrictions 4 PCB 3063 req# 4-ResElect 3
   Elective Check restrictions 4 Elective Check restrictions 4

   Junior Year
   Fall
   COP 3223 Intro to Prog C 3 COP 3502C Computer Science I 3
   MAP 4302 Intro to Topology 3 MAP 4307 App complex var 3
   MAA 4226 Adv Calculus I 4 MAA 4227 Adv Calculus II 4
   Elective Check restrictions 3 Elective Check restrictions 4

   Senior Year
   Fall
   AMH 2010* req# 1B-GE 3 ARH 2050* req# 1B-GE 3
   ENC 3241* req# 3-Core 3 MAA 4227 Adv Calculus II 4
   ENC 3310 Magazine Writing 3 ENC 3242* req# 3-Core 4
   ENC 3311 Advanced Expository Writing 3 ENC 3310 Magazine Writing 4
   ENC 3241* req# 3-Core 3 ENC 3311 Advanced Expository Writing 4

   E. Science Foundation (6 hrs)
   1. Prefer: PSC 1121 Physical Science 3 hrs
   2. Prefer: ANT 2511 The Human Species or BSC 1005 Biological Principles 3 hrs

   Related Programs: Statistics, Applied Math, Computer Science, Engineering, Math Education
   Related Minors: Computer Science, Engineering, Math, Physics, Statistics

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

   Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
   - COP 3223*: may use any programming course with a COP pre-
     fix.
   - PHY 2048* & PHY 2049 with labs: may use any PHY, CHM or
     BSC course with a lab designed for science majors; however,
     PHY 2048 & PHY 2049 with labs are core requirements and must
     be taken.

   Suggested Plan of Study:
   One of numerous possible plans of study. See program description for all
   requirements. Courses with an asterisk (*) may be replaced by
   alternates in the same requirement. Consult a departmental advisor
   for alternate, new or more appropriate selections.
Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)
   EDF 2005 Introduction to Education 3 hrs
   EDG 2701 Teaching Diverse Populations 3 hrs
   EME 2040 Technology for Educators 3 hrs
   Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language requirement may be used to meet this requirement.

3. Other Program Requirements (14 hrs)
   EDF 2130* Child & Adolescent Development for Educators 3 hrs
   MAC 2311 Calculus with Analytic Geometry I 3 hrs
   STA 2023 Statistical Methods I 3 hrs
   MAC 2312 Calculus with Analytic Geometry II 4 hrs
   MAC 2313 Calculus with Analytic Geometry III 4 hrs
   MAP 2302 Differential Equations 3 hrs
   Note: Students should consult advisor regarding course options.
   *Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Education Core Requirements (18 hrs)
   EDF 4410 Teaching Strategies and Classroom Management 3 hrs
   EDF 4467 Learning Theory and Assessment 3 hrs
   EDF 4603 Analysis and Applications of Ethical, Legal, and Safety Issues in Schools 3 hrs
   TSL 4080 Theory and Practice of Teaching ESOL 3 hrs
   Students in Schools 3 hrs
   EEX 4074 Teaching Exceptional Students in Sec Settings 3 hrs
   RED 4043 Content Reading Kindergarten thru Grade 12 3 hrs
   Note: Prior to Internship I, the student must have completed EDG 4410 Teaching Strategies and Classroom Management and at least 50% of all required mathematics courses with a letter grade of “C” (1.75) or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.

   Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.

   Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.

   Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.clinicalexperiences.education.ucf.edu.

5. Internship I (3 hrs)
   ESE 3940 Internship I 3 hrs

6. Specialization Requirements (27 hrs)
   A grade of "C" (1.75) or better is required.
   MAS 3105 Elementary Linear and Matrix Algebra 4 hrs
   MAS 3203 Introduction to Number Theory 3 hrs
   MHF 3302 Logic and Proof in Mathematics 3 hrs
   MHF 4404 History of Mathematics 3 hrs
   MTG 4212 Modern Geometry 4 hrs
   STA 4163 Statistical Methods II 3 hrs
   MAE 4360 Mathematics Instructional Analysis 4 hrs
   MAE 4634 Programs in Teaching Mathematics 3 hrs

7. Internship II Block (12 hrs)
   ESE 4943 Internship II 11 hrs
   ESE 4942 Internship II Secondary Seminar 1 hr
   Note: At least 80% of all required mathematics courses and all methods courses must be completed with a letter grade of "C" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.

   Passing scores on the Subject Area Examination (Mathematics 6-12) portion of the Florida Teacher Certification Examination is strongly recommended prior to entry into Internship II.

8. Foreign Language Requirements (0-8 hrs)
   Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.

   Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the preprofessional level in accordance with State Board of Education Rule 6A-5.066.

9. Departmental Exit Requirements
   Achieve a minimum 2.5 GPA in all courses within the major.
   Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
   Pass all applicable sections of the Florida Teacher Certification Examination.

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

11. Total Program Semester Hours Required 120 hrs
    Consult with your Education advisor and review your degree audit for more recent information.

12. Recommended Four-Year Sequence of Courses

   Freshman Year
   Fall (13 hrs) Spring (16 hrs)
   EDG 2701 Teaching Diverse Pop 3 AME 2010 History 1492-1877 3
   ENC 1101 English Composition I 3 ENC 1102 English Composition II 3
   MAC 2311 Calculus with Analytic Geo 3 MAC 2312 Calculus w/Analy Geo II 4
   STS 1101 Physical Science 3 ANT 2511 The Human Species or 3
   EDF 2005 Introduction to Education 3 BSC 1005 Biological Principles 3
   EDF 2701 Child & Adolescent Development 3 BSC 1006 Human Anatomy 3
   ESE 3940 Internship I 3 SPC 1800 Fund of Oral Comm 3

   Sophomore Year
   Fall (15 hrs) Spring (16 hrs)
   MAP 2302 Differential Equations 3 AME 2010 History 1877-present 3
   MHF 3302 Logic & Proof in Math 3 EME 2040 Technology for Educator 3
   PSY 2012 General Psychology 3 PSY 2013 General Psychology 3
   ESE 3940 Internship I 3 MAS 3105 Elem Lin Matrix Algebra 4
   POS 2041 American National Gov 3 MAS 3203 Intro to Number Theory 3
   STA 2023 Statistical Methods I 3 EDF 2130* Child and Adol Dev Ed 3
   *Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

   Junior Year
   Fall (14 hrs) Spring (12 hrs)
   EDF 4467 Learn Theory & Asssmt 3 RED 4043 Content Read K-12 3
   EDG 4410 Teach Strat & Class Mgmt 3 EME 4363 Prog in Teach Math 3
   MAE 4360 Math Instruct Analysis 4 STA 4163 Statistical Methods II 3
   MTG 4212 Modern Geometry 4 TSL 4080 Theory & Prac of Teach 3
   STA 2023 Statistical Methods I 3 ESE 4942 Intern II Sec Seminar 1
   Note:  Students in Schools

   Senior Year
   Fall (12 hrs) Spring (12 hrs)
   ESE 3940 Internship I 3 ESE 4943 Internship II 11
   EDF 4603 Anal & Appl of Eth, Legal, & Safety Issues in Sch 3 ESE 4942 Intern II Sec Seminar 1
   MHF 4404 History of Math 3
   EEX 4074 Teach Ex Stud in Sec Setting or 3

206 UNIVERSITY OF CENTRAL FLORIDA 2007-2008 Undergraduate Catalog
MECHANICAL ENGINEERING (B.S.M.E.)

College of Engineering and Computer Science
Mechanical, Materials & Aerospace Engineering

Department,
ENGR 307, 407-823-2416; Fax: 407-823-0208
http://www.mmae.ucf.edu

Associate Chair: Dr. Kuo-Chi Lin, E-mail: klin@mail.ucf.edu;
Undergraduate Advisor: Waheeda Illasarie,
E-mail: willasar@mail.ucf.edu

Admission Requirements: none

1. UCF General Education Program for (36+2 hrs)

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

A. Communication Foundations 9 hrs
1. ENC 1101 & ENC 1102
2. Prefer SPC 1016

B. Cultural and Historical Foundations 9 hrs
1. Select two courses from Historical Foundations
2. ARH 2050, ARH 2051, MUL 2010, THE 2000, FIL 1000, REL 2300, PHI 2010, LIT 2110, or LIT 2120

C. Mathematical Foundations 7 hrs
1. Select MAC 2311 (PR: MAC 1140)
2. Select STA 3023 (PR: MAC 2312)

D. Social Foundations 6 hrs
1. Select two courses from Historical Foundations

E. Science Foundations 7 hrs
1. Select PHY 2048/48L (PR: MAC 2311)
2. Select PHY 2048/49/49L (PR: MAC 2311)
3. Select ENC 1101 Composition I GEP
4. Select ENC 1102 Composition II
5. Select two courses from Humanities Courses
6. Select two courses from Social Science Courses
7. Select two courses from Humanities or Social Science Courses

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

These courses are specifically required for all engineering students of the Florida State University System. CPP courses are also available at other Florida post-secondary schools and may be transferred to UCF from within the Florida State University/Community College Systems. Students should consult with their Department for a list of the specific courses of this type to be offered. Participants in the UCF GEP may enroll in MMAE major courses, a 2.0 (C or better) in each course is required for those courses in section 2. marked with an asterisk (*). Note: MAC 2311 and PHY 2048/48L also satisfy UCF GEP sub-requirements, as do ENC 1101, ENC 1102, the Humanities courses, and the Social Science courses.

CHS 1440* Fundamentals of Chemistry for Eng (CHM 2045C/45L will substitute) 4 hrs
MAC 2311* Calculus with Analytic Geometry I GEP
MAC 2312* Calculus with Analytic Geometry II 4 hrs
MAC 2313* Calculus with Analytic Geometry III 4 hrs
MAP 2302* Differential Equations 3 hrs
PHY 2048/48L* Physics for Engineers & Scientists I GEP
PHY 2049/49L* Physics for Engineers & Scientists II 4 hrs
ENC 1101 Composition I GEP
ENC 1102 Composition II
Humanities Courses
Social Science Courses GEP
Humanities or Social Science Courses

3. Courses Required for the Major (65 hrs)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.25 GPA in completing these courses, together with the senior design courses listed in 4. below.

EGN 1006C Intro to the Engineering Profession 1 hr
EGN 1007C Engineering Concepts & Methods 1 hr
EGN 3310 Engineering Analysis - Statics 3 hrs
EGN 3321 Engineering Analysis - Dynamics 3 hrs
EGN 3343 Thermodynamics 3 hrs
EGN 3365 Structure & Properties of Materials 3 hrs
EGN 3373 Principles of Electrical Engineering 3 hrs
STA 3032 Probability & Statistics for Engineers GEP
EML 3034 Modeling Methods in MMEA 3 hrs
EML 3035C Mechanical Engng Measurements 3 hrs
EML 4312C Feedback Control 3 hrs
EML 3500 Machine Design & Analysis 3 hrs
EGM 3601 Solid Mechanics 3 hrs

EGN 3701 Fluid Mechanics I 3 hrs
EGN 4142 Heat Transfer 3 hrs
EML 4220 Vibration Analysis 3 hrs
EML 4533C Introduction to CAD/CAM 3 hrs

Select one of the following three options for your senior year to complete your BSME.

a. Energy Systems Option
- EML 3104 Thermodynamics of Mechanical Sys 3 hrs
- EML 4304C Thermo-fluids Measurements 2 hrs
- EML 4703 Fluid Mechanics II 3 hrs
- EML 4145 Topics in Heat Transfer 1 hr
- Restricted Mechanical Systems Elective 3 hrs
- Approved Electives 9 hrs

b. Mechanical Systems Option
- EML 3262 Kinematics of Mechanisms 3 hrs
- EGM 3601L Solid Mechanics Lab 1 hr
- Restricted Energy Systems Elective 3 hrs
- Approved Electives 12 hrs

c. Materials Option
- EMA 3012C Experimental Techniques in Materials & Mechanics 3 hrs
- EMA 4102 Thermodynamics and Kinetics of Materials 3 hrs
- EMA 3124 Design and Selection of Materials 3 hrs
- EMA 4223 Fundamentals of Mech. Behavior of Materials 3 hrs
- Approved Electives 9 hrs

4. Departmental Graduation Requirements (6 hrs)

These courses are a capstone experience to your engineering program and should be completed in your last two major semesters of study.

- EML 4501C Engineering Design I 3 hrs
  or EGN 4412C Interdisciplinary Design I
- EML 4502C Engineering Design II 3 hrs
  or EGN 4413C Interdisciplinary Design II

CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

5. Foreign Language Requirements (0-8 hrs)

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

Graduation: none

6. Approved Restricted and Technical Electives

Technical electives are available in the BSME program to address specific student interests in a variety of technical areas. Restricted electives are intended to ensure that all students have a significant design experience in both mechanical and thermofluids systems. Students should consult with their Department for a list of the approved restricted and technical electives and the terms when specific courses of this type are to be offered.

7. University Minimum Graduation Requirements

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

Total Semester Hours Required: 128 hrs

Related Programs: Aerospace Engineering, Industrial Engineering.

Transfer Notes:
- Courses taken from Community Colleges do not substitute for Upper Division Courses unless part of an articulated pre-engineering degree program.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide all supporting information with his/her petition for this evaluation.
- EGN 1006C and EGN 1007C are required courses for incoming freshmen only. The two credit hours for these courses may be
UCF Degree Programs

substituted by an approved Mechanical Engineering technical elective for transfer students.

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

Mechanical Engineering - 128 semester hours required

FIRST YEAR
Fall

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EGM 1006C</td>
<td>Intro to Eng Prof</td>
<td>1</td>
</tr>
<tr>
<td>*ENC 1101</td>
<td>English Comp I</td>
<td>3</td>
</tr>
<tr>
<td>*CHS 1440</td>
<td>Calc I</td>
<td>4</td>
</tr>
<tr>
<td>*MAC 2311</td>
<td>Calc II</td>
<td>4</td>
</tr>
<tr>
<td>*ECE 2023</td>
<td>Micro</td>
<td>3</td>
</tr>
<tr>
<td>Summer</td>
<td></td>
<td></td>
</tr>
<tr>
<td>*MAC 2313</td>
<td>Calc III</td>
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</tr>
<tr>
<td>*Historical Foundations</td>
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SECOND YEAR
Fall

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<thead>
<tr>
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<tbody>
<tr>
<td>STA 3023</td>
<td>Prob &amp; Stats</td>
<td>3</td>
</tr>
<tr>
<td>*MAP 2302</td>
<td>Diff Equations</td>
<td>3</td>
</tr>
<tr>
<td>*EML 3310</td>
<td>Engr Analytics</td>
<td>3</td>
</tr>
<tr>
<td>*PHY 2049</td>
<td>Phys Eng II</td>
<td>4</td>
</tr>
<tr>
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</tr>
<tr>
<td>EML 3000</td>
<td>Machine Design</td>
<td>3</td>
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<tr>
<td>EML 3701</td>
<td>Fluid Mechanics I</td>
<td>3</td>
</tr>
<tr>
<td>EML 3034</td>
<td>Modeling Methods</td>
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</tr>
<tr>
<td>EML 3303C</td>
<td>Mech Engr Meas</td>
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<tr>
<td>*Science Foundations</td>
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THIRD YEAR
Fall

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<tr>
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<td>Machine Design</td>
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<td>EML 3701</td>
<td>Fluid Mechanics I</td>
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</tr>
<tr>
<td>EML 3034</td>
<td>Modeling Methods</td>
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</tr>
<tr>
<td>EML 3303C</td>
<td>Mech Engr Meas</td>
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</tr>
<tr>
<td>*Science Foundations</td>
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FOURTH YEAR

I. ENERGY SYSTEMS OPTION
Fall

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<tr>
<td>EML 3101</td>
<td>Thermo Mech Sys</td>
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<tr>
<td>EML 4412</td>
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<tr>
<td>Restricted Mechanical Systems Elect</td>
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</tr>
<tr>
<td>Spring</td>
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<tr>
<td>EML 4502C</td>
<td>Eng Design II</td>
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</tr>
<tr>
<td>EML 4414</td>
<td>Topics in Heat Transfer</td>
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II. MECHANICAL SYSTEMS OPTION
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<th>Course Title</th>
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<tr>
<td>EML 3262</td>
<td>Kinem Mechns</td>
<td>3</td>
</tr>
<tr>
<td>EML 4501C</td>
<td>Eng Design I</td>
<td>3</td>
</tr>
<tr>
<td>EML 4412C</td>
<td>Inter Design I</td>
<td>3</td>
</tr>
<tr>
<td>EML 4312C</td>
<td>Feedback Control</td>
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</tr>
<tr>
<td>Approved Elective</td>
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<td></td>
</tr>
<tr>
<td>Restricted Energy Systems Elect</td>
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<td></td>
</tr>
<tr>
<td>Spring</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EML 4502C</td>
<td>Eng Design II</td>
<td>3</td>
</tr>
<tr>
<td>EML 4414</td>
<td>Topics in Heat Transfer</td>
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</tbody>
</table>

III. MATERIALS OPTION
Fall

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<th>Course Title</th>
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<td>EMA 4102</td>
<td>Thermo &amp; Kinetics of Mtts</td>
<td>3</td>
</tr>
<tr>
<td>EML 4412C</td>
<td>Inter Design II</td>
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<tr>
<td>EMA 3124</td>
<td>Design &amp; Select of Mtts</td>
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<td>EML 4312C</td>
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<tr>
<td>EML 4502C</td>
<td>Eng Design II</td>
<td>3</td>
</tr>
<tr>
<td>EMA 3012C</td>
<td>Exp Tech MechMtts</td>
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</tr>
</tbody>
</table>

Notes:
1. Courses marked with an asterisk (*) are also available from most Community Colleges and are often part of their Pre-Engineering AA programs. Most of these courses are part of the UCF General Education Program; see the section on the GEP elsewhere in this catalog for further information.
2. Students should consult the MMAE website (http://www.mmae.ucf.edu) or with the MMAE Associate Chairman in ENGR 307 for a list of approved technical electives and for the terms when specific courses of this type are to be offered. Students should check with the MMAE Associate Chairman each semester to ensure they are making satisfactory progress toward their degree.
3. The State University System requires students to complete a minimum of nine semester hours during summer terms prior to graduation. See the section on Summer Attendance Requirement elsewhere in this catalog.

Important Notice:
- Certain courses required for this major serve as key prerequisites or are offered in specific terms. Any deviation from the four-year plan should be discussed with an academic advisor. Failure to take the courses as listed may result in a delay in the date of your graduation.
- Caution must be taken to ensure that you take courses in a proper sequence regarding prerequisites.
- If you do not have a higher level programming language background you must take a course in this area prior to taking EML 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.

Accelerated BS/MS Degree Program
The Mechanical, Materials, and Aerospace Engineering Department offers the Accelerated BS/MS Program to students in the Bachelor of Science and Master of Science programs. It is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor.

All applicants must have a minimum overall GPA of 2.5 and complete all program prerequisite courses with at least a grade of “C” (2.0).

Degree Requirements
- The Medical Laboratory Sciences program is accredited by the National Accrediting Agency for Clinical Laboratory Sciences (NAACLS - 8410 Bryn Mawr Avenue Suite 670, Chicago, IL 6068) 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 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 University or Community College System.
- Students should consult with a departmental advisor.
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours.
- A minimum overall GPA of 2.5 and a minimum grade of “C” (2.0)
in prerequisite and major courses is required for admission to, continuation in, and graduation from the Medical Laboratory Sciences Program
- UCF Residency Requirement: 32 hours
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.
- An FDLE background check and Board of Clinical Lab Personnel trainees license are required.

1. UCF General Education Program (36+2 hrs)
   - Communication Foundations 9 hrs
   - Cultural Historical Foundations 9 hrs
   - Mathematical Foundations 6 hrs
   - Select MAC 1105
   - Select STA 2023
   - Social Foundations 6 hrs
   - Select ECON 2010

2. Common Program Prerequisites (25 hrs)
   - BSC 2010C General Biology and Lab
   - CHM 2045C Chemistry Fundamentals I & II labs
   - STA 2023 Statistical Methods I
   - ZOO 3703C Human Anatomy and Lab
   - CHM 2210, 2211 Organic Chemistry I & II labs
   - MCB 3020C General Microbiology
   - PCB 3703C Human Physiology and Lab
   *See Transfer Notes

3. Core Requirements (63 hrs)
   - MLS 3220C Clinical Microscopy with lab 3 hrs
   - MLS 4635C Advanced Clinical Chemistry I, lab 3/1 hrs
   - MLS 4630 Advanced Clinical Chemistry II 3 hrs
   - PCB 3233 Immunology with Lab 3/1 hrs
   - MLS 4430C Clinical Parasitology 2 hrs
   - MLS 3305 Hematology with Lab 3/1 hrs
   - MLS 4505C Immunodiagnostics 3 hrs
   - MLS 4910 Intro to Clinical Research 1 hr
   - MLS 4590 Clinical Immunohematology 4 hrs
   - MLS 4460C Clinical Pathogenic Microbiology 5 hrs
   - MLS 4334 Hemostasis 3 hrs
   - MLS 4933 Medical Technology Seminar 1 hr
   - MLS 3705 Concepts in Education/Management 3 hrs
   - MLS 4830C Interpretive & Practical Clinical Chem 4 hrs
   - MLS 4831C Interpretive & Practical Immunohematology 4 hrs
   - MLS 4832C Interpretive & Practical Hematology 4 hrs
   - MLS 4833C Diagnostic Microbiology 4 hrs
   - BSC 3403C Computer Fundamentals for Business 3 hrs
   - BSC 3403C Quantitative Biological Methods 4 hrs

4. Upper Division Restricted Electives none

5. Departmental Exit Requirements (126 hrs)
   - A minimum 2.5 overall GPA is required for clinical assignment.
   - The Degree in Medical Laboratory Sciences will be awarded upon satisfactory completion of the University’s didactic component and the clinical component in affiliated hospital laboratories
   - Upon receiving the degree in Medical Laboratory Sciences, the graduate will be eligible to write a national certification examination and then qualify for State Licensure
   - Students must earn a grade of ‘C’ (2.0) or higher in required courses with a minimum 2.5 overall GPA for graduation

6. Electives none

7. Foreign Language Requirements (0-8 hrs)
   - Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: none

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

   Total Semester Hours Required 126 hrs
   Related Programs: Molecular Biology and Microbiology, Biology, Chemistry
   Related Minors: Molecular Biology and Microbiology, Biology, Chemistry

   Transfer Notes:
   - Community College Equivalencies
   - Human Anatomy and Physiology I & II
   - (BSC 2093C and 2094C)
   - General Microbiology/Lab (MCB 3020C)

   Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

MODERN LANGUAGE COMBINATION (B.A.)
College of Arts and Humanities
Department of Modern Languages & Literature, CNH 523
http://www.cas.ucf.edu/forlang/
E-mail: modernlanguages@ucf.edu
Contact: P. Giordano, 407-823-2472

Admission Requirements none

Placement in Language courses
- Placement in language courses is based on one year of high school language being equivalent to one semester of college work. Students must consult an advisor.
- Native speakers or students who have received advanced education abroad must substitute select classes.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Language combinations may consist of French, German or Spanish as a first language and any of those three as a second language, as well as Italian.
- 24 credits in the first language and 15 credits in the second must be taken at the 3000 level or above.
- At least 33 hours must be taken in Modern Language courses
taught in the target language.
- Students must earn at least a “C” (2.0) in each upper division foreign language course.
- Co-op or internship credit cannot be used in this major.
- Departmental Residency Requirement consists of at least 21 semester hours of regularly scheduled courses taken from the UCF Department of Modern Languages and Literatures.
- Language credit by exam will not be given in courses lower in level than those in which credit 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
      STA 1060C Statistics Using Excel 3 hrs
   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs

2. Common Program Prerequisites

   Completion of Intermediate level of proficiency.
   (0-14 hrs)

3. Core requirements-first language

   (24 hrs)
   a. Composition (select one) 3 hrs
      SPN 3420* Spanish Composition
      FRE 3420* French Composition
      GER 4422* Advanced French Composition
   b. Oral Communication (select one) 3 hrs
      SPN 3760* Adv Spanish Oral Communication
      FRE 3760* Adv French Oral Communication
      GER 3760* Adv German Oral Communication
   * A native or near-native speaker must substitute an alternate upper division language course in consultation with a departmental advisor.
   c. Literature (select one sequence) 6 hrs
      SPW 3100 & 3101 Survey of Spanish Literature
      SPW 3130 & 3131 Survey of Latin American Literature
      FRW 3100 & 3101 Survey of French Literature
      GEW 3100 & 3101 Survey of German Literature
   d. Linguistics (select one) 3 hrs
      FRE 3780 French Phonetics and Diction
      POL 3730 Romance Phonology
      GER 3780 German Phonetics and Diction
      SPN 4801 Spanish Morphosyntax
      SPN 4800 Spanish American Syntax
      SPN 4870 Spanish Phonetics
   e. Restricted Electives in the first language 9 hrs
      (chosen with departmental advisor)

4. Core requirements-second language

   (15 hrs)
   a. Composition (select one) 3 hrs
      SPN 3420, FRE 3420, GER 3420, ITA 3420
   b. Advanced Oral Communication (select one) 3 hrs
      SPN 3760, FRE 3760, GER 3760, or ITA 3760
   c. Restricted Electives in the second language 9 hrs
      (chosen with departmental advisor)

5. Departmental Exit Requirements

   - Earn a grade of “C” (2.0) or higher in at least 39 hrs of upper division Modern Language courses.
   - Students are required to satisfactorily complete a departmental exit exam (primary track).
   - Computer Competency met by CGS 1060C or equivalent.

6. Foreign Language Requirements

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

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

8. University Minimum Exit Requirements

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

Total Semester Hours Required 120 hrs

Related Programs: French, Spanish

Related Minors: French, German, Italian, Judaic Studies, Latin American Area Studies, Spanish

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

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by electives in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

   Fall
   BSC 1005* req# 1E2-GEP
   ENC 1101 Composition I
   AMH 2101* req# 1B1-GEP
   MGF 1106* req# 1C1-GEP
   SPN 3760* req# 3b-Core1 3
   FRE 3420* req# 4a-Core2 3
   SPN 3420* req# 3e-Core1 3
   FRE 3760* req# 4b-Core2 3
   GEW 3100 & 3101 Survey of German Literature 6 hrs
   SPW 3100 & 3101 Survey of Spanish Literature 6 hrs
   SPW 3130 & 3131 Survey of Latin American Literature 6 hrs
   FRW 3100 & 3101 Survey of French Literature 6 hrs
   GEW 3100 & 3101 Survey of German Literature 6 hrs

   Spring
   ANT 2000* req# 1E2-GEP
   PSC 1121* req# 1E1-GEP
   COM 1000* req# 1A3-GEP
   SPN 2200* req# 2-CPP 3
   FRE 4422* req# 4c-Core2 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3

Sophomore Year

   Fall
   SPW 3760* req# 3b-Core1 3
   FRE 3760* req# 3b-Core1 3
   SPN 3300* req# 3c-Core1 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
    
   Spring
   SPN 4410* req# 3c-Core1 3
   FRE 4421* req# 4c-Core2 3
   FRW 3100* req# 4c-Core2 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3

Junior Year

   Fall
   SPW 3100* req# 3a-Core1 3
   SPW 3760* req# 3b-Core1 3
   SPN 3300* req# 3c-Core1 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3

   Spring
   SPW 3100* req# 3c-Core1 3
   SPW 3760* req# 3b-Core1 3
   SPN 3300* req# 3c-Core1 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3

Senior Year

   Fall
   SPW 3100* req# 3c-Core1 3
   SPW 4410* req# 3c-Core1 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3

   Spring
   SPN 4410* req# 3c-Core1 3
   FRE 4421* req# 4c-Core2 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3
   Elective* Check restrictions 3

MOLECULAR BIOLOGY AND MICROBIOLOGY (B.S.)
Burnett College of Biomedical Sciences
Molecular Biology and Microbiology Department
HPA2 335, 407-823-5932
http://www.biomed.ucf.edu
Chair: P.E. Kolattukudy

Admission Requirements
none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
1. UCF General Education Program (38+2 - 3hrs)

1.1 Cultural Historical Foundations 9 hrs

- Select ENC 1101, ENC 1102
- Prefer SPC 1016 Tech Presentations

1.2 Social Foundations 6 hrs

- Select STA 2023 or CGS 1060C

1.3 Social Foundations 6 hrs

- Select CHM 2045C**, 2046, General Chemistry I, II, + Lab

1.4 Mathematics 6 hrs

- Select MAC 2311
- MAC 2253 GEP
- CGS 1060C or
- MAC 2254, Applied Calculus I & II

2. Common Program Prerequisites (16 hrs)

2.1 Life Sciences

- Select MCB 3020C
- Select PCB 4239, 3233L Molecular Immunology + Immunology Lab
- Select PCB 3522, 4524 Molecular Biology I, II
- Select PCB 3403C
- Select CHM 2045C**, 2046, General Chemistry I, II, + Lab

2.2 Chemistry

- Select BCH 4053 Biochemistry I

2.3 Physics

- Select PHY 2053C, 2054C College Physics I, II
- Select PHY 2048, 2049 Physics for Scientists and Engineers I, II
- Select PHY 2023, 2024 Physics for Scientists and Engineers I, II
- Select MAC 2311 or MAC 2253
- Select STA 2023 or CGS 1060C

3. Core Requirements (33 hrs)

3.1 Life Sciences

- Select MCB 3020C
- Select MCB 4414
- Select PCB 4229, 3223L Molecular Immunology + Immunology Lab
- Select PCB 3522, 4524 Molecular Biology I, II
- Select PCB 3403C Quantitative Biological Methods
- Select CGS 1060C

3.2 Chemistry

- Select BCH 4053 Biochemistry I

4. Upper Division Restricted Elective (7 courses minimum)

4.1 Biology

- Select BCH 4054 Biochemistry II
- Select BCH 4103L Biochemical Methods
- Select MCB 3203, 3203L Pathogenic Microbiology + Lab
- Select MCB 3404 Bacterial Genetics and Physiology
- Select MCB 4114C Microbial Systems and Diagnostics
- Select MCB 4203 Infectious Disease
- Select MCB 4312 Molecular Biotechnology
- Select MCB 4503C Virology
- Select MCB 4603 Environmental Microbiology
- Select MCB 4721C Methods in Biotechnology
- Select MCB 4970H Honors Thesis
- Select MCB 4204 Cellular Microbiology
- Select MCB 4276 Epidemiology of Infectious Diseases
- Select MCB 4721 Methods in Biotechnology
- Select MCB 5225 Molecular Biology of Disease
- Select MCB 5932 Current Topics in Molecular Biology
- Select MCB 5654 Applied Microbiology
- Select MLS 3220C Clinical Microscopy with lab
- Select MLS 3315 Hematology
- Select MLS 4334 Hemostasis
- Select MLS 4430C Clinical Parasitology
- Select MLS 4505C Immunodiagnostics
- Select MLS 4625 Advanced Clinical Chemistry I
- Select MLS 4630 Advanced Clinical Chemistry II
- Select PCB 3063 Genetics
- Select PCB 3703C Human Physiology
- Select PCB 4251T Tissue Engineering
- Select PCB 4805 Endocrinology

5. Departmental Exit Requirements

- Students 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

6. Electives (variable)

- Students are encouraged to participate in undergraduate research if interested in pursuing graduate or professional education.

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.

8. University Minimum Exit Requirements

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

Total Semester Hours Required: 120 hrs

Related Programs: Biology, Biotechnology, Chemistry, Medical Laboratory Sciences

Related Minors: Biology, Chemistry

Transfer Notes:

- Students who begin a two semester sequence course (e.g. General Chemistry) at a community college are strongly encouraged to complete the sequence before transferring. If it will not be possible to complete the sequence at the community college, the student should postpone beginning the course until enrolling at UCF. Students may elect to take Human Anatomy (ZOO 3733C) and Human Physiology (PCB 3703C) at UCF in order to meet the University's requirement that students complete 48 semester hours of upper division (3000/4000 level) credit. Students meeting the Human Anatomy and Physiology I & II requirement at the community college (lower division) level must take an additional 8 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)

Tentative Course Schedule for Entering Freshmen
UCF Degree Programs

Freshman Year

Fall 13 hrs Spring 16 hrs
ENC 1101 3 ENC 1102 3
PSY 2012 or SYG 2000 3 CHM 2046L 3
or ANT 2000 3 CHM 2045C 4
CHM 2045C 4 MAC 1114 3
MAC 1105 4 SLS 2311C 2
SLS 2311C 2
or PHY 2048* 2049L

Sophomore Year

Fall 14/15 hrs Spring 15 hrs
CHM 2210 3 MAC 2211 3
MAC 2211* or MAC 2253 4/3 STAT 2023 3
EUH 2000 or AMH 2010 3 or CGS 1060C 3
or WOH 2012 or HUM 2210 3 or BSC 3403C 4

Plan your required 9 summer hours into your course of study

Junior Year

Fall 17 hrs Spring 16 hrs
PCB 3522 3 PCB 4524 3
Restrictive Elective 3 PCB 4239 & PCB 3233L 4
PHY 2053C 4 PHY 2054C 4
or PHY2048, 2049L
BSC 2011C** 3 SPC 1016* 3
or PHY 2054*, 2054L
ECO 2013 or POS 2041 3 or SPC 1016 Recommended SPC 1016

*Students electing to enroll in the PHY2048/2049 sequence must plan to accommodate MAC 2311/2312 as prerequisites.
**Or BSC 3403C

Senior Year

Fall 15/16 hrs Spring 12/15 hrs
BCH 4053 3 MCB 4414 3
Restricted Elective 3/4 Restricted Elective 3/4
Restricted Elective 3 Restricted Elective 3/4
Restricted Elective 3/4 Restricted Elective 3/4
Cultural/Historical 3

MOLECULAR BIOLOGY AND MICROBIOLOGY-
PREPROFESSIONAL CONCENTRATION (B.S.)

Burnett College of Biomedical Sciences
HPA2 335, 407-823-5932
http://www.biomed.ucf.edu

Chair: P.E. Kolattukudy

Students desiring admission to professional schools (medical, dental, optometry, veterinary, podiatry, and pharmacy) will meet all the admission requirements for those programs while obtaining a Molecular Biology and Microbiology degree.

Admission Requirements

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor and the Pre-health Advisement Office in HPA I 124.

1. UCF General Education Program

(36+ 2-3 hrs)

(Note: Certain courses must be selected in GEP for this major, bringing the total GEP hours to more than 36.)

A. Communication Foundations

Select ENC 1101, ENC 1102
Prefer SPC 1016 Tech Presentations
6 hrs

B. Cultural Foundations

Cultural Historical Foundations
9 hrs

C. Mathematical Foundations

Select STA 2203 or CGS 1060C
3-4 hrs

D. Social Foundations

6 hrs

E. Science Foundations

Select SPC 1016
4 hrs

Select CHM 2045C
4 hrs

2. Common Program Prerequisites

(16 hrs)

BSC 2010C Biology I
BSC 2011C* Biology II
CHM 2045**, 2046, General Chemistry I, II, + Lab
2048L
CHM 2210, 2211, Organic Chemistry I, II, + Lab
2211L
MAC 2211 Calculus with Analytical Geometry I

3. Core Requirements

(35 hrs)

Life Sciences

MCB 3020C General Microbiology
5 hrs
MCB 4414 Microbial Metabolism
3 hrs
PCB 4239, 3233L Molecular Immunology + Immunology Lab
4 hrs
PCB 3522, 4524 Molecular Biology I, II
6 hrs
BSC 3403C Quantitative Biological Methods
4 hrs
SLS 2311C Selected Medical Careers
2 hrs

Chemistry

BCH 4053 Biochemistry I
3 hrs

Physics

PHY 2053C, 2054C College Physics I, II
8 hrs
or PHY 2048, 2049 Physics for Scientists and Engineers I, II

Math, Statistics, Computer

MAC 2311 or MAC 2253
GEP
STA 2023 or CGS 1060C
GEP

*May be substituted by BSC 3403C
**Or CHM 2040C, 2041C

4. Upper Division Restricted Electives

(7 courses minimum)

(Seven courses, no more than two may be taken outside the Molecular Biology and Microbiology Department and at least two must be a laboratory course. No more than two may be MLS courses. Enrollment in some MLS courses is restricted. Check with advisor before enrolling. Only three hours of Honors thesis will count towards restrictive elective requirement.)

Students in the preprofessional concentration of the Molecular Biology and Microbiology program are recommended to choose from the following restricted electives:

BCH 4054 Biochemistry II
3 hrs
MCB 3203, 3203L Pathogenic Microbiology + Lab
4 hrs
PCB 3063 Genetics
3 hrs
MCB 4312 Molecular Biotechnology
3 hrs
MCB 4503C Virology
3 hrs
MCB 4970H Honors Thesis
3 hrs
MCB 4203 Infectious Process
3 hrs
MCB 5225 Molecular Biology of Disease
3 hrs
MCB 3204 Bacterial Genetics and Physiology
3 hrs
MCB 4276 Epidemiology of Infectious Diseases
3 hrs
MLS 3305 Hematology
3 hrs
MLS 3344 Hemostasis
3 hrs
MLS 4303C Clinical Parasitology
2 hrs
MLS 4505C Immunodiagnostics
3 hrs
PCB 3703C Human Physiology
4 hrs
PCB 4026 Molecular and Cellular Pharmacology
3 hrs
PCB 4805 Endocrinology
3 hrs
PCB 5238 Immunobiology
3 hrs
ZOO 3701C Human Gross Anatomy
2 hrs
ZOO 3733C Human Anatomy
4 hrs
ZOO 4603C Vertebrate Embryology
5 hrs
ZOO 4704C Clinical Neuroanatomy and Neuroscience
4 hrs
ZOO 3744 Neurobiology
3 hrs
ZOO 4753C Vertebrate Histology
5 hrs
ZOO 4605 Human Clinical Embryology
3 hrs

5. Departmental Exit Requirements

- Students 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
- Study, directed research, or similar credit may not be used as a Restricted Elective
- Minimum of 20 hours must be taken at UCF in the department of the major
- Students will be required to pass a comprehensive test during their last semester

6. Electives

(variable)

7. Foreign Language Requirements

(0-8 hrs)

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

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

Total Semester Hours Required 120 hrs

Related Programs: Biology, Biotechnology, Chemistry, Medical Laboratory Sciences

Related Minors: Biology, Chemistry

Transfer Notes:
Students who begin a two semester sequence course (e.g. General Chemistry) at a community college are strongly encouraged to complete the sequence before transferring. If it will not be possible to complete the sequence at the community college, the student should postpone beginning the course until enrolling at UCF. Students may elect to take Human Anatomy (ZOO 3733C) and Human Physiology (PCB 3703C) at UCF in order to meet the University’s requirement that students complete 48 semester hours of upper division (3000/4000 level) credit. Students meeting the Human Anatomy and Physiology I & II requirement at the community college (lower division) level must take an additional 8 hours of upper division coursework at UCF.

Honors in the Major
- Application and admission through the department and the Burnett Honors College
- Fulfill University requirements for Honors in the Major and maintain a 3.2 UCF GPA; 3.5 in the major; 3.2 cumulative average for graded upper division courses regardless of the institution
- Complete BSC 3404H “Quantitative Biological Methods” with a grade of B or better (4 credits)
- Complete MCB 4970H “Honors Thesis” with a grade of B or better (4 credits)

Tentative Course Schedule for Entering Freshmen

Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENC 1101</td>
<td>ENC 1102</td>
</tr>
<tr>
<td>SLS 2311C</td>
<td>CHM 2046L</td>
</tr>
<tr>
<td>CHM 2045C</td>
<td>BSC 2010C</td>
</tr>
<tr>
<td>MAC 1105 or elective</td>
<td>MAC 1114 or elective</td>
</tr>
</tbody>
</table>

Sophomore Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2210</td>
<td>CHM 2211</td>
</tr>
<tr>
<td>MCB3020C</td>
<td>MCB 3233L</td>
</tr>
<tr>
<td>MAC 2311 or MAC 2253</td>
<td>STAT 2023 or CGS 1060C</td>
</tr>
<tr>
<td>EUH 2000 or AMH 2010</td>
<td>BSC 3403C</td>
</tr>
<tr>
<td>or WOH 2012 or HUM 2210</td>
<td>or HUM 2230 or WOH 222</td>
</tr>
</tbody>
</table>

Plan your required 9 summer hours into your course of study

Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB 3522</td>
<td>CHM 2329 + PCB 3233L</td>
</tr>
<tr>
<td>Restricted Elective</td>
<td>PHY 2054C</td>
</tr>
<tr>
<td>PHY 2048*</td>
<td>PHY 2049*</td>
</tr>
<tr>
<td>PHY 2049L</td>
<td>BSC 2011C**</td>
</tr>
<tr>
<td>ECO 2013 or POS 2041</td>
<td>SPC 1060* or SPC 1016</td>
</tr>
<tr>
<td>*Students electing to enroll in the PHY2048/2049 sequence must plan to accommodate MAC 2311/2312 as prerequisites.</td>
<td></td>
</tr>
</tbody>
</table>

Senior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>BCH 4053</td>
<td>MCB 4414</td>
</tr>
<tr>
<td>Restricted Elective</td>
<td>Restricted Elective 3/4</td>
</tr>
</tbody>
</table>

UCF Degree Programs

MUSCULAR BIOLOGY AND MICROBIOLOGY-
UCF/USF Accelerated Medical School Program
(B.S.) (See “Accelerated Programs”)

MOTION PICTURE TECHNOLOGY
(See Film)

MUSIC (B.A.)
College of Arts and Humanities
Department of Music, CNH 205A
http://www.music.ucf.edu

Requirements for Admission
- Each student must either complete and pass an interview with the B.A. advisor or the Department Chair or complete an audition that demonstrates satisfactory proficiency
- Memorization is required for pianists and vocalists
- Accompanists are provided for vocalists 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
- Please see the UCF Music Department website for additional audition requirements

Degree Requirements
- Prior to attending the first music class as a music major at UCF, all students will take a keyboard placement examination to determine the appropriate level of class piano.
- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement; at least 25 hours must be taken from the UCF Music department
- Each student must complete a faculty approved capstone project.
- Co-op or internship credit cannot be used in this major
- Students should consult with a departmental advisor for course selections
- Courses designated in 1 (General Education Program) are usually spread over the full four years
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program
(see General Education Program for detailed information) (36 hrs)

A. Communication Foundations
- Select ENC 1101 and ENC 1102
- Prefer SPC 1600

B. Cultural and Historical Foundations
- Select one course from 1.B.1 or 1.B.2 list
- Prefer STA 1060C Statistics Using Excel
- Prefer STA 1060C Statistics Using Excel
- Prefer STA 1060C Statistics Using Excel

C. Mathematical Foundations
- Prefer MGF 1106 Finite Mathematics
- Prefer MGF 1106 Finite Mathematics
- Prefer MGF 1106 Finite Mathematics
- Prefer MGF 1106 Finite Mathematics

2. Common Program Prerequisites
(28 hrs)

MUT 1121 Music Theory and Musicianship I 4 hrs
MUT 1122 Music Theory and Musicianship II 4 hrs
MUT 2126 Music Theory and Musicianship III 4 hrs
MUT 2127 Music Theory and Musicianship IV 4 hrs
MUN XXXX Ensembles 4 hrs
MVK 1111 Class Piano I 1 hr
MVK 1112 Class Piano II 1 hr
MVK 2121 Class Piano III 1 hr

E-mail: emontagu@mail.ucf.edu
Eugene Montague, 407-823-1145,
MUK 2121 Class Piano I
MUS 1010 Music Forum
MUS 2360C Introduction to Music Technology
MUS 3211 Music History & Literature I
MUS 3212 Music History & Literature II

Electives

Select primarily from upper-level courses that form a coherent progression within a single or two related departments. The completion of a minor is strongly encouraged.

Electives

Select primarily from upper-level courses.

Departmental Exit Requirements

- MUS 4900 Capstone/Senior Thesis Project
- Earn a grade of "C" (2.0) or better in each Music course

Foreign Language Requirements

- Admission: Two years of foreign language in high school or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.
- Graduation: Proficiency equivalent to two semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

University Minimum Exit Requirements

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

Total Semester Hours Required: 120 hrs

Related Programs:
- Music Education, Music (BM), Theatre, Musical Theatre
- Related Minors: Music, Theatre

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

Suggested Plan of Study:

Example given shows a student majoring in B.A. in Music. See program description for all requirements. Consult the program advisor for alternate, new, or more appropriate selections.

Freshman Year

Fall
- ENC 1101 Composition I (GEP A.1.)
- MUT 1121 Music Theory and Musicianship I
- MUN XXXX Ensemble I
- MVK 141X Performance I
- MUS 1111 Class Piano I
- MUS 1010 Music Forum
- MUL 2014 Intro to Music History and Literature

Spring
- ENC 1102 Composition II (GEP A.2.)
- MUT 1122 Music Theory and Musicianship II
- MUN XXXX Ensemble II
- MVK 141X Performance II
- MUS 1112 Class Piano II
- MUS 2360C Intro to Music Technology
- GEP E.1: Science Foundation

Sophomore Year

Fall
- SPC 1600 Fundamentals Oral Comm (GEPA.3)
- MUT 2126 Music Theory and Musicianship III
- MUN XXXX Ensemble III
- Non-Music Restricted Elective

Spring
- GEP B.1: Cultural & Historical Foundation
- MUT 2127 Music Theory and Musicianship IV
- MUN XXXX Ensemble IV
- Non-Music Restricted Elective

MUS 2121 Class Piano II
MUS 1010 Music Forum
MUS 2360C Basic Statistics MS Excel (GEP C.2)
MUF 1000 Finite Mathematics (GEP C.3)

Junior Year

Fall
- GEP B.2: Cultural & Historical Foundation
- MUH 3211 Music History and Literature I
- MUT 3571 20th Century Musical Analysis
- MUS 2360C Introduction to Music Technology
- MUX 34XXX Music Restricted Elective
- Non-Music Restricted Elective

Spring
- MUX 34XXX Music Restricted Elective
- MUX 34XXX Music Restricted Elective
- Non-Music Restricted Elective

Senior Year

Fall
- GEP D.1: Social Foundation
- Non-Music Restricted Elective
- MUX 34XXX Music Restricted Elective
- GEP E.2: Science Foundation
- 1120 Foreign Language

Spring
- GEP D.2: Social Foundation
- Non-Music Restricted Elective
- MUS 4900 Capstone Project
- 1121 Foreign Language

MUSIC EDUCATION (B.M.E.)

College of Arts and Humanities
Department of Music, CNH 205A
http://www.music.ucf.edu
E-mail: musicaud@mail.ucf.edu
Contact: A. Holcomb, 407-823-4180, Fax 407-823-3378, E-mail: aholcomb@mail.ucf.edu

Admission Requirements - Music Education

- Audition. To be accepted into Music Education, 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 for vocalists 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.
- Refer to the UCF Music Department website for specific audition requirements.
- Prior to attending the first music class as a music major at UCF, all students will take a keyboard placement examination to determine the appropriate level of class piano.
- Interview. In addition to a performance audition, students must successfully complete an interview with Music Education faculty.

Admission Requirements – Professional Program

- Application into the Professional Program must be made at the conclusion of 45 hours of course work. Students must complete a formal application for the Professional Program. (Deadlines: February 15 for fall semester admission and September 15 for spring semester admission). Transfers may be admitted on an individual basis at the discretion of the Music Education faculty. To apply for the Music Education Professional Program, students must:
  - Complete 45 hours of coursework including: 15 hours of General Education Program courses, EDF 2005, Music Theory and Musicianship III, first semester of Performance II.
  - Have a minimum overall GPA of 2.5 and a grade of “C” (2.0) or better in each performance, education, and music education course.
  - Have on file in the University admissions office passing scores on all 4 parts of the College Level Academic Skills Test (CLAST) or the General Knowledge Test of the Florida Teacher Competency Examination.
  - Provide satisfactory documentation and reflection on 15 hours of field experiences (See Music Education Coordinator for more information).

To be accepted into the Music Education Professional Program students must:

- Complete Class Piano IV, MUT 2127 Music Theory and Musicianship IV, two semesters of Performance II.
Demonstrate proficiency with aural skills (including the ability to match pitch with the voice) and communication skills (including the ability to write and speak effectively).

Notes:
(1) Students may not enroll in Performance III or Professional Program courses unless all requirements for admission are satisfied.
(2) Students who change degree programs and select this major must adopt the most current catalog.
(3) Common program prerequisites are subject to revision based on changes in Section 1004.04, Florida Statutes, Public Accountability and State Approval for Teacher Preparation Programs, and State Board of Education Rule 6A-5.5.066, Approval of Pre-service Teacher Preparation Programs.

Degree Requirements

1. UCF General Education Program (36 hrs)
   (see General Education Program for detailed information)
   A. Communication Foundations
      Select ENC 1101 and ENC 1102
      Prefer SPC 1600
   B. Cultural and Historical Foundations
      Select one course from 1.B.1 list
      Select MUH 3212 History and Literature II
      Select one course from 1.B.1 or 1.B.2 list
   C. Mathematics Foundations
      Prefer MGF 1106 Finite Mathematics
      (may substitute a higher level math)
      Prefer STA 1060C Statistics Using Excel
   D. Social Foundations
      6 hrs
   E. Science Foundations
      6 hrs

2. Common Program Prerequisites (38 hrs)
   EDF 2005 Introduction to Education
   EME 2040 Technology for Educators
   EDG 2701 Teaching Diverse Populations
   MUN XXXX Major Ensembles (4 semesters)
   MUS 1010 Music Forum (4 semesters)
   MUT 1121 Music Theory and Musicianship I
   MUT 1122 Music Theory and Musicianship II
   MUT 2126 Music Theory and Musicianship III
   MUT 2127 Music Theory and Musicianship IV
   MVK 2122 Class Piano IV
   MVX 141X Performance I (2 semesters)
   MVX 242X Performance II (2 semesters)

3. Music Core Requirements (0 hrs)
   MUS XXXX Major Ensembles (4 semesters)
   MUS 1010 Music Forum (6 semesters)
   MUT 1121 Music Theory and Musicianship I
   MUT 1122 Music Theory and Musicianship II
   MUT 2126 Music Theory and Musicianship III
   MUT 2127 Music Theory and Musicianship IV
   MVK 2122 Class Piano IV
   MVX 141X Performance I (2 semesters)
   MVX 242X Performance II (2 semesters)

4. Music Education Prerequisites (22 hrs)
   MUN XXXX Major Ensembles (2 semesters)
   MVX 343X Performance III (2 semesters)
   MUG 3104 Basic Conducting
   MUL 2014 Introduction to Music Literature
   MUH 3211 Music History & Literature I
   MUH 3212 Music History & Literature II
   ESE 3940 Internship I
   MUE 4311 Elementary School Music Methods
   MUE 3333 Music Learning Theory and Assessment

5. Education Core (12 hrs)
   EDG 4410 Teaching Strategies and Classroom Mgmt.
   TSL 4080 Theory and Practice of Teaching ESOL Students
   EDF 4003 Critical Analysis of Ethical, Legal and School Safety Issues
   RED 4403 Content Reading K-12

6. Music Education Specialty Area Courses and Professional Program Courses (26 hrs)
   (Professional Program Courses Denoted by *)
   Complete one program:

   Program A – Instrumental
   MUE 2346 Vocal Techniques
   MUG 3302 Instrumental Conduct & Materials*

   Program B – Choral
   MUS 1250 IPA for Singers
   MUG 3202 Choral Conduct & Materials*
   MUV 4640 Vocal Pedagogy and Literature
   MUE 3431 Secondary Choral Methods I
   MUE 3437 Secondary Choral Methods II
   ESE 4943 Internship II

   Program C – Elementary School
   MUE 2346 Vocal Techniques
   MUE 4393 Music and Students with Special Needs
   MUG 3X02 Choral or Instrumental Conducting and Materials*
   MUE 3353 General Music Literature and Techniques*
   MUE 4331 Secondary Choral Methods I*
   MUE 4394 Seminar in Teaching Music*
   ESE 4943 Internship II

Choose 4:
   MUE 2450 Woodwind Techniques I
   MUE 3451 Woodwind Techniques II
   MUE 2460 Brass Techniques I
   MUE 3461 Brass Techniques II
   MUE 2470 Percussion Techniques I
   MUE 2471 Percussion Techniques II
   MUE 2440 String Techniques

Choose 5:
   MUE 2450 Woodwind Techniques I
   MUE 3451 Woodwind Techniques II
   MUE 2460 Brass Techniques I
   MUE 3461 Brass Techniques II
   MUE 2470 Percussion Techniques I
   MUE 2471 Percussion Techniques II
   MUE 2440 String Techniques

7. Internship

Admission to Internship I will be granted to students who meet the following requirements:
   - Have on file passing scores on all 4 parts of the Florida Teacher Certification General Knowledge Test and/or College Level Academic Skills Test (CLAST) (no alternatives or waivers will be accepted).
   - Possess minimum overall GPA of 2.5
   - Possess minimum specialization GPA of 2.5
   - Possess minimum professional preparation GPA of 2.5
   - Achieve a "C" or better in all prerequisite methods/specialization courses
   - Complete a formal application for Internship I online (Deadlines: February 15 for fall semester and September 15 for spring semester)
   - Current enrollment in or completion of Performance III (first semester)
   - Completion of Music Education prerequisites and Education Core Requirements
   - Completion of 30 semester hours of General Education and Common Program courses
   - Completion of all Specialty Area courses except Secondary Methods II (MUE 433X), Seminar in Music Teaching (MUE 4394) and Internship II (ESE 4943)

Admission to Internship II will be granted to students who meet the following requirements:
   - Completion of all admission requirements for Internship I (see above)
   - Completion of Performance III and any associated recital (students may not perform a recital during Internship II)
   - Completion of all music methods and techniques courses
   - Completion of all General Education and Common Program courses
Internship I: Students are assigned to a school with certified Supervising Teachers under the direction of a University Coordinator. During the semester, students spend two full days per week (Tuesday and Thursday) in assigned schools with half the time in an Elementary setting and half in a Secondary school setting. Students are expected to provide their own transportation to assigned locations.

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. Students are expected to provide their own transportation to assigned locations.

8. Special Non-Course Requirements
Note: Contact the Music Education Advisor for details.

Students should register to take the General Knowledge Test of the Florida Teaching Certification Examination (FTCE) before the third semester of enrollment at UCF. (See http://www.frm.edu/doe/sas/ftcehome.htm for test information).

- Electronic Portfolio. Students will develop an electronic portfolio while enrolled in upper division education courses and internship. The portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices. Consult with the Music Education Advisor for specific information regarding portfolio construction.

Ensemble Participation
- Selected from University Chorus, Women’s Chorus, Symphony Orchestra, Concert Band, and Wind Ensemble. Four hours of Jazz Lab or one hour of Marching Band may be used to fulfill Major Ensemble requirements.
- Students whose primary instrument is a wind instrument must audition for Wind Ensemble whenever it is offered.
- Ensemble assignment is by the Ensemble directors in consultation with the applied faculty.
- Transfer students must take Major Ensemble during each of their remaining semesters, except when enrolled in Internship II.
- Native UCF students must take each Major Ensemble credit in separate semesters.
- Students enrolled in a Performance course must concurrently enrolled in an appropriate major ensemble if accepted

Recitals
- Students must complete a faculty-approved public recital (optional for students in the Elementary School Music Specialization). Recitals are normally performed while concurrently enrolled in the second semester of Performance III.

CMENC Membership
- Active participation in CMENC is expected. Students are expected to maintain a record of participation at CMENC events. In addition, students are expected to document attendance at any event that promotes development as a music educator (e.g., music or music education conferences, workshops).

Music Education Forums
- Attendance at all Music Education Forums (except during Internship I and II) is expected.

Advising
- Consult with the music education advisor for course selection.

Public School Partnerships
- Students are expected to be in K-12 schools each semester. Prior to internship experiences, students are expected to observe, assist, and teach in variety of grade levels and settings (e.g., urban, suburban, general, choral, instrumental). Students are expected to maintain a record of and reflections on all field experiences as this will be required for the Music Education Proficiency Examination.

9. Departmental Exit Requirements
- Have on file passing scores for the General Knowledge, Professional Education, and Subject Area subtests of the Florida Teacher Certification Examination. (See for specific test information).
- A minimum GPA of 2.5 is required in all courses within the major.
- A grade of “C” (2.0) or better in each performance and music education course.
- Computer competency is met through MUE 3693 Technology in Music Education.
- 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.

10. Foreign Language Requirements
(0-8 hrs)
Admission: Two years of foreign language in high school or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

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

12. Total Semester Hours Required
134 hrs

Related Programs: Music, Theatre
Related Minors: Music, Theatre
Transfer Notes:
- Students transferring to UCF must pass an audition and interview in order to be accepted into the music education program (See Admissions Requirements above).
- 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.

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.

Suggested Plan of Study:
Examples given shows a student majoring in Bachelor of Music Education in Instrumental, Choral, and Elementary tracks. See program description for all requirements. Consult the program advisor for alternate, new, or more appropriate selections.

Program A – Instrumental Program K–12

Freshman
Fall
- GE 1010 Music Forum 0
- MVX 141X Performance I 2
- MUE XXXX Techniques 1
- MUS 1010 Music Forum 0
- MUE 2346 Vocal Techniques 1
- MUS 1010 Music Forum 0
- CMENC/Schools 0
- Total 17

Spring
- GE 1010 Music Forum 0
- MVX 141X Performance I 2
- MUE XXXX Techniques 1
- MUS 1010 Music Forum 0
- MUE 2346 Vocal Techniques 1
- MUS 1010 Music Forum 0
- CMENC/Schools 0
- Total 17

Take General Knowledge Test
16
### Program C – Elementary Program

**Freshman**

<table>
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<tbody>
<tr>
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<tr>
<td>MVX 141X Performance I</td>
<td>MVX 141X Performance I</td>
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<tr>
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<tr>
<td>TSL 4080 Teaching LEP Children</td>
<td>CMENC/Schools</td>
</tr>
<tr>
<td>CMP 3105 Teaching Assist</td>
<td>CMENC/Schools</td>
</tr>
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**Sophomore**

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**Junior**

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**Senior**

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### Program B – Choral Program K–12

**Freshman**

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### MUSIC – JAZZ STUDIES TRACK (B.M.)

**College of Arts and Humanities**

**Department of Music**

[UCF Degree Programs](http://www.music.ucf.edu/)

**CNH 205**

**E-Mail**: musicaud@mail.ucf.edu

**Contact**: George Weremchuk, 407-823-5261; Fax 407-823-3378, E-mail: gwemerch@mail.ucf.edu

### 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 for vocalists 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.
- Please see the UCF Music Department website for additional information.
### UCF Degree Programs

**Professional Sequence Entrance Review**

During the fourth semester of applied study, each student will be required to pass the Professional Sequence Entrance Review, which will include the following:

- An evaluation of performance Skills
- Completion of Performance I and II
- Completion of MUS 2360C
- Completion of MUT 2127, Music Theory and Musicianship IV
- Completion of Class Piano IV
- Completion of Jazz Theory I & II
- Overall GPA of at least 2.5, and a GPA for all music courses of at least 3.0.

This review is a prerequisite for Performance level III.

**Degree Requirements**

- Prior to attending the first class as a music major at UCF, all students will take a keyboard placement examination to determine the appropriate level of class piano.
- Students who change degree programs and select this major must adopt the most current catalog.
- At least 65 hours of credit must be earned in music courses.
- Departmental Residency Requirement; at least 30 hours must be taken from the UCF Music department.
- Performance 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) are usually completed throughout four years of study.

#### 1. UCF General Education Program (36 hrs)

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<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
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<tr>
<td>Prefer SPC 1600</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>6 hrs</td>
<td></td>
</tr>
<tr>
<td>Select one course from 1.B.1 list</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>Select MUL 2016 Evolution of Jazz</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>Select one course from 1.B.1 or 1.B.2 list</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>3 hrs</td>
<td></td>
</tr>
<tr>
<td>Prefer MGF 1106 Finite Mathematics</td>
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<tr>
<td>(may substitute a higher level math)</td>
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<td></td>
</tr>
<tr>
<td>Prefer STA 1060C Statistics Using Excel</td>
<td>3 hrs</td>
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</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
<td></td>
</tr>
<tr>
<td>E. Science Foundations</td>
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#### 2. Common Program Prerequisites (24 hrs)

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<tr>
<th>Course</th>
<th>Description</th>
<th>Hours</th>
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<tr>
<td>MUL 1121</td>
<td>Music Theory and Musicianship I</td>
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<tr>
<td>MUL 1122</td>
<td>Music Theory and Musicianship II</td>
<td>4 hrs</td>
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<tr>
<td>MUL 1125</td>
<td>Music Theory and Musicianship III</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MUL 2127</td>
<td>Music Theory and Musicianship IV</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MUN 3713</td>
<td>Jazz Ensemble (four semesters)</td>
<td>4 hrs</td>
</tr>
<tr>
<td>MVK 1111</td>
<td>Class Piano I</td>
<td>1 hr</td>
</tr>
<tr>
<td>MVK 1112</td>
<td>Class Piano II</td>
<td>1 hr</td>
</tr>
<tr>
<td>MVK 2121</td>
<td>Class Piano III</td>
<td>1 hr</td>
</tr>
<tr>
<td>MVK 2122</td>
<td>Class Piano IV</td>
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#### 3. Core Requirements (33 hrs)

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<td>MUL 2014</td>
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<tr>
<td>MUS 2360C</td>
<td>Intro to Music Technology</td>
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<tr>
<td>MUS 1010</td>
<td>Music Forum (eight semesters)</td>
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<tr>
<td>MUL 2016</td>
<td>Evolution of Jazz</td>
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<td>MUL 3170</td>
<td>Jazz Theory I</td>
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<td>MUL 3171</td>
<td>Jazz Theory II</td>
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<td>MUL 3300</td>
<td>Jazz Workshop (four semesters)</td>
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<td>MUS 4220</td>
<td>Music Business &amp; Industry</td>
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<td>MUH 4814</td>
<td>Jazz Styles and Analysis</td>
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<td>MUS 4954</td>
<td>Recital Performance II</td>
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<td>Music History &amp; Literature II</td>
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#### 4. Specialty Requirements (Choose one): (27 hrs)

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<td>Trumpet</td>
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<td>Trumpet I (two semesters)</td>
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<td>MVB 2421</td>
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<td>MVB 3431</td>
<td>Trumpet III (two semesters)</td>
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<td></td>
<td>MVB 4441</td>
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<td></td>
<td>Restricted Electives*</td>
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<tr>
<td>Trombone</td>
<td>MVB 1413</td>
<td>Trombone I (two semesters)</td>
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<td>MVB 2423</td>
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<td>MVB 3433</td>
<td>Trombone III (two semesters)</td>
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<td>MVB 4443</td>
<td>Trombone IV (two semesters)</td>
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<tr>
<td></td>
<td>Restricted Electives*</td>
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**Audition Requirements**

- The Departmental Entrance Review requirements are listed in the back section of the catalog.
- The Departmental Exit Requirements include:
  - A maximum of 45 hours of extension, correspondence, CLEP, CLAST and nine hours of Summer credit (if applicable) completed at UCF.
  - A maximum of 30 of the last 36 hours of course work must be completed in residency at UCF.
  - A minimum 3.0. (A 2.0 UCF GPA required.)
  - Any secondary performance course not in area of major instrument or
  - Any MUC, MUE, MUG, MUL, MUM, MUN, MUO, MUS, MUT, MVX courses numbered 3000 or higher.

#### 5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each Music course.
- Computer Competency met by MUS 2360C, or departmental examination.

#### 6. Foreign Language Requirements

- Admission: Two years of foreign language in high school or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.
- Graduation: none (variable)
- Electives: Select primarily from upper level 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, CLAST and nine hours of Summer credit (if applicable)

**Total Semester Hours Required**: 120 hrs

**Related Programs**: Music Education, Music (BA), Theatre

**Related Minors**: Music, Theatre, 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...
Suggested Plan of Study:
Example given shows a student majoring in Jazz Studies. See program description for all requirements. Consult the program advisor for alternate, new, or more appropriate selections.

Program A: Jazz Trumpet, Trombone, Saxophone

Freshman Year

**Fall**
- ENC 1101 Composition I
- MUT 1121 Music Theory and Musicianship I
- MUN 3713 Jazz Ensemble I
- MVX 141X Performance I
- MVK 1111 Class Piano I
- MUS 1010 Music Forum 0
- MUL 2014 Intro to Music History and Literature 3

**Spring**
- ENC 1102 Composition II
- MUT 1122 Music Theory and Musicianship II
- MUN 3713 Jazz Ensemble II
- MVX 141X Performance II
- MVK 1112 Class Piano II
- MUS 1010 Music Forum 0
- MUL 2014 Intro to Music Technology I

Sophomore Year

**Fall**
- SPC 1500 Fundamentals of Oral Communication 3
- MUT 2126 Music Theory and Musicianship III
- MUN 3713 Jazz Ensemble I
- MVX 242X Performance II
- MVK 2121 Class Piano III
- MUT 2126 Music Theory and Musicianship III
- MUS 1010 Music Forum 0
- MUL 2014 Intro to Music Technology I

**Spring**
- ENC 2227 Music Theory and Musicianship IV
- MUT 2127 Music Theory and Musicianship IV
- MUN 3713 Jazz Ensemble II
- MVX 242X Performance II
- MVK 2122 Class Piano IV
- MUT 2127 Music Theory and Musicianship IV
- MUS 1010 Music Forum 0
- MUL 2014 Intro to Music Technology II

Junior Year

**Fall**
- MVX 121X Secondary Performance 1
- MUN 3713 Jazz Ensemble I
- MVK 1111 Class Piano I
- MUS 1010 Music Forum 0
- MUL 2014 Intro to Music History and Literature 3

**Spring**
- ENC 1101 Composition I
- MUT 1121 Music Theory and Musicianship I
- MUN 3713 Jazz Ensemble I
- MVX 141X Performance I
- MVK 1111 Class Piano I
- MUS 1010 Music Forum 0
- MUL 2014 Intro to Music History and Literature 3

Program B: Jazz Piano, Guitar, Bass, Drum Set

Freshman Year

**Fall**
- ENC 1101 Composition I
- MUT 1121 Music Theory and Musicianship I
- MUN 3713 Jazz Ensemble I
- MVX 141X Performance I
- MVK 1111 Class Piano I
- MUS 1010 Music Forum 0
- MUL 2014 Intro to Music History and Literature 3

**Spring**
- ENC 1102 Composition II
- MUT 1122 Music Theory and Musicianship II
- MUN 3713 Jazz Ensemble II
- MVX 141X Performance II
- MVK 1112 Class Piano II
- MUS 1010 Music Forum 0
- MUL 2014 Intro to Music Technology I

Sophomore Year

**Fall**
- SPC 1500 Fundamentals of Oral Communication 3
- MUT 2126 Music Theory and Musicianship III
- MUN 3713 Jazz Ensemble I
- MVX 242X Performance II
- MVK 2121 Class Piano III
- MUT 2126 Music Theory and Musicianship III
- MUS 1010 Music Forum 0
- MUL 2014 Intro to Music Technology I

**Spring**
- ENC 2227 Music Theory and Musicianship IV
- MUT 2127 Music Theory and Musicianship IV
- MUN 3713 Jazz Ensemble II
- MVX 242X Performance II
- MVK 2122 Class Piano IV
- MUT 2127 Music Theory and Musicianship IV
- MUS 1010 Music Forum 0
- MUL 2014 Intro to Music Technology II

Junior Year

**Fall**
- MVX 121X Secondary Performance 1
- MUN 3713 Jazz Ensemble I
- MVK 1111 Class Piano I
- MUS 1010 Music Forum 0
- MUL 2014 Intro to Music History and Literature 3

**Spring**
- ENC 1101 Composition I
- MUT 1121 Music Theory and Musicianship I
- MUN 3713 Jazz Ensemble I
- MVX 141X Performance I
- MVK 1111 Class Piano I
- MUS 1010 Music Forum 0
- MUL 2014 Intro to Music History and Literature 3

1. UCF General Education Program (36 hrs)

A. Communication Foundations
   - Select ENC 1101 and ENC 1102
   - Select SPC 1500
   - 9 hrs

B. Cultural and Historical Foundations
   - Select one course from SPC 1500
   - 9 hrs

C. Mathematical Foundations
   - Select MUS 1010 Music Forum 0
   - 3 hrs

Total Credits Earned: 16
UCF Degree Programs

(2007-2008 Undergraduate Catalog)

2. Common Program Prerequisites (32 hrs)
MUT 1121 Music Theory and Musicianship I 4 hrs
MUT 1222 Music Theory and Musicianship II 4 hrs
MUT 2126 Music Theory and Musicianship III 4 hrs
MUT 2127 Music Theory and Musicianship IV 4 hrs
MUN XXXX Major Ensemble (four semesters) 4 hrs
(Piano students take MUN 3453, guitar students take MUN 3463)
MVX 141X Performance I (two semesters) 4 hrs
MVX 242X Performance II (two semesters) 4 hrs
MVX 1111 Class Piano I 1 hr
MVX 1112 Class Piano II 1 hr
MVX 2121 Class Piano III 1 hr
MVX 2122 Class Piano IV 1 hr

3. Core Requirements (20 hrs)
MUL 2014 Intro to Music History and Literature 3 hrs
MUS 2360C Intro to Music Technology 3 hrs
MUS 1010 Music Forum (eight semesters) 0 hrs
MUT 3571 20th Century Musical Analysis 3 hrs
MUC 1101C Composition I 2 hrs
MUC 2104C Composition II 2 hrs
MUN XXXX Major Ensembles 2 hrs
(Piano students take MUC, guitar students take MUC 3463)
MUG 3104 Basic Conducting 2 hrs
MUH 3211 Music History & Literature I 3 hrs
MUH 3212 Music History & Literature II GEP

4. Professional Sequence Requirements: (32 hrs)
MUC 3105C Composition III (two semesters) 6 hrs
MUC 4066C Composition IV (two semesters) 8 hrs
MUT 3401 Counterpoint 3 hrs
MUT 4311 Orchestration 3 hrs
MUC 4950 Composition Recital 0 hrs
One course selected from MUC/MUH/MUS/MUT, 3000 level or above 3 hrs
Restricted Electives* 9 hrs

*Restricted Electives
- Any secondary performance course not in area of major instrument or
- Any MUC, MUE, MUH, MUL, MUM, MUN, MUC, MUS, MUT, MVX courses numbered 3000 or higher.

5. Special Non-Course Requirements
Major Ensemble Participation
- Selected from University Chorus, Women’s Chorus, Symphony Orchestra, Concert Band, Wind Ensemble, and Marching Band. Four hours of Jazz Ensemble may be used as Major Ensemble credit.
- Ensemble assignment is by the Ensemble directors.
- Students must take Major Ensemble during each semester at UCF.
- 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 semester hours of credit must be spread over at least two 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, Madrigal Singers, Women’s Chorus, Opera Workshop, Woodwind, Jazz Ensemble, Jazz Combo, and Early Music Ensemble.

6. Departmental Exit Requirements
- Earn a grade of “C” (2.0) or better in each Music course
- Computer Competency met by MUS 2360C, or departmental examination

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of foreign language in high school or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

8. Electives (variable)
Select primarily from upper level courses. May be outside of the department.

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

Total Semester Hours Required 120 hrs

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

Suggested Plan of Study:
Example given shows a student majoring in Music Composition. See program description for all requirements. Consult the program advisor for alternate, new, or more appropriate selections.

Freshman Year
Fall
ENC 1101 Composition I 3
MUT 1121 Music Theory and Musicianship I 4
MUN XXXX Major Ensemble 1
MUS 1010 Music Forum 0
MVK 1111 Class Piano I 1
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3
MUT 2126 Music Theory and Musicianship III 4
MUG 3104 Basic Conducting 2

Spring
MUT 1122 Music Theory and Musicianship II 4
MUN XXXX Major Ensemble 1
MVX 2121 Class Piano III 1
MUS 1010 Music Forum 0
MVX 242X Performance II 2
MUG 3104 Basic Conducting 2

Sophomore Year
Fall
SPC 1800 Fundamentals of Oral Communication 3
MUT 2126 Music Theory and Musicianship III 4
MUN XXXX Major Ensemble 1
MUS 1010 Music Forum 0
MUC 1101C Composition I 2
MUG 3104 Basic Conducting 2

Spring
ENC 1102 Musical History and Composition I 3
MUT 2127 Musical Analysis and Composition I 4
MUC 3105C Composition III 6
MUG 3104 Basic Conducting 2

Junior Year
Fall
ENC 1101 Composition I 3
MUT 3571 20th Century Musical Analysis 3
MUC 3105C Composition III 6
MUG 3104 Basic Conducting 2

Spring
MUT 1122 Music Theory and Musicianship II 4
MUC 3105C Composition III 6
MVG 3400XX Restructured Electives 2
MUG 3104 Basic Conducting 2

Senior Year
Fall
MGT 1101C Restructured Electives 3
MUG 3104 Basic Conducting 2

Spring
MGT 1101C Restructured Electives 3
MUG 3104 Basic Conducting 2

MUSIC – MUSIC PERFORMANCE TRACK (B.M.)

College of Arts and Humanities
Department of Music
CNH 205, E-Mail: musicaud@mail.ucf.edu
http://www.music.ucf.edu/

Contact: George Weremchuk, 407-823-5261; Fax 407-823-3378, E-mail: gwremen@ucf.edu
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 for vocalists 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.
- Please see the UCF Music Department website for additional audition requirements.

Professional Sequence Entrance Review
During the fourth semester of applied study, each student will be required to pass the Professional Sequence Entrance Review, which will include the following:
- An evaluation of performance skills.
- Completion of Performance I and II.
- Completion of MUS 2360C.
- Completion of MUT 2127, Music Theory and Musicianship IV.
- Completion of Class Piano IV.
- Overall GPA of at least 2.5, and a GPA for all music courses of at least 3.0.

This review is a pre-requisite for Performance level III.

Degree Requirements
- Prior to attending the first music class as a music major at UCF, all students will take a keyboard placement examination to determine the appropriate level of class piano.
- Students who change degree programs and select this major must adopt the most current catalog.
- At least 65 hours of credit must be earned in music courses.
- Departmental Residency Requirement; at least 30 hours must be taken from the UCF Music department.
- Performance 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) are usually completed throughout four years of study.

1. UCF General Education Program (36 hrs)
(See General Education program for detailed information)
A. Communication Foundations
   Select ENC 1101 and ENC 1102
   Prefer SPC 1600
   9 hrs
B. Cultural and Historical Foundations
   Select one course from 1.B.1 list
   Select MUH 3212 History and Literature II
   3 hrs
   Select one course from 1.B.1 or 1.B.2 list
   3 hrs
C. Mathematical Foundations
   Prefer 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 (32 hrs)
MUT 1121 Music Theory and Musicianship I
MUT 1122 Music Theory and Musicianship II
MUT 2126 Music Theory and Musicianship III
MUT 2127 Music Theory and Musicianship IV
MUN XXXX Major Ensemble (four semesters)
   (Piano students take MUN 3453, guitar students take MUN 3483)
MVX 341X Performance I (two semesters)
MVX 242X Performance II (two semesters)
MKV 1111 Class Piano I
MKV 1112 Class Piano II
MKV 2121 Class Piano III
MKV 2122 Class Piano IV
3 hrs
4 hrs
4 hrs
4 hrs
4 hrs
4 hrs
4 hrs
4 hrs
1 hr
1 hr
1 hr
1 hr

3. Core Requirements (30 hrs)
MUL 2014 Intro to Music History and Literature
MUS 2360C Intro to Music Technology
MUS 3010 Music Forum (eight semesters)
MUT 3571 20th Century Musical Analysis
MVX 343X Performance III (two semesters)
MVX 444X Performance IV (two semesters)
3 hrs
3 hrs
0 hrs
3 hrs
6 hrs
8 hrs

4. Specialty Requirements (Choose One:) (22 hrs)

Piano
MUL 3400 Piano Literature I
MUL 3401 Piano Literature II
MVK 4640 Piano Pedagogy I
MUN 3453 Piano Ensemble
Restricted Electives*
Electives
2 hrs
2 hrs
2 hrs
2 hrs
9 hrs
5 hrs

Guitar
MUL 4437 String Literature and Pedagogy
MUN XXXX Guitar Ensemble
Restricted Electives*
Electives
3 hrs
2 hrs
12 hrs
5 hrs

Voice
MUS 1250 IPA for Singers
MUS 3255 German and English Lyric Diction
MUS 3254 Italian and French Lyric Diction
MVV 4640 Voice Pedagogy I
MUL 3602 Song Literature
MUN XXXX Major Ensembles
MUN XXXX Minor Ensembles
Restricted Electives*
Electives
1 hr
2 hrs
2 hrs
2 hrs
3 hrs
2 hrs
2 hrs
0 hrs
5 hrs

Woodwinds
MUN XXXX Major Ensemble
MUN XXXX Minor Ensemble
MUL 4444 Woodwind Literature and Pedagogy
Restricted Electives*
Electives
2 hrs
2 hrs
3 hrs
8 hrs
5 hrs

Brass
MUN XXXX Major Ensemble
MUN XXXX Minor Ensemble
MUL 4443 Brass Literature and Pedagogy
Restricted Electives*
Electives
2 hrs
4 hrs
3 hrs
8 hrs
5 hrs

Percussion
MUN XXXX Major Ensemble
MUN XXXX Minor Ensemble
MUL 4443 Percussion Pedagogy
Restricted Electives*
Electives
2 hrs
4 hrs
2 hrs
8 hrs
5 hrs

Strings
MUN XXXX Major Ensemble
MUN XXXX Minor Ensemble
MVV 4643 String Literature and Pedagogy
Restricted Electives*
Electives
2 hrs
4 hrs
3 hrs
8 hrs
5 hrs

*Restricted Electives 0–12 hrs
- Any secondary performance course not in area of major instrument or
- Any MUC, MUE, MUG, MUH, MUL, MUM, MUN, MUO, MUS,
- MUT, MVX courses numbered 3000 or higher.

5. Special Non-Course Requirements

Major Ensemble Participation
Selected from University Chorus, Women’s Chorus, Symphony Orchestra, Concert Band, Wind Ensemble, and Marching Band.
Four hours of Jazz Ensemble may be used as Major Ensemble credit.
Ensemble assignment is by the Ensemble directors.
Students must take Major Ensemble during each semester at UCF.
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 semester hours of credit must be spread over at least two 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, Madrigal.
UCF Degree Programs

Singers, Women's Chorus, Opera Workshop, Woodwind, Jazz Ensemble, Jazz Combo, and Early Music Ensemble

6. Departmental Exit Requirements
- Earn a grade of "C" (2.0) or better in each Music course
- Computer Competency met by MUS 2360C, or departmental examination

7. Foreign Language Requirements
(0-8 hrs)
Admission: Two years of foreign language in high school or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

8. Electives
(variable)
Select primarily from upper level courses. May be outside of the department.

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

Total Semester Hours Required
120 hrs

Related Programs: Music Education, Music (BA), Theatre
Related Minors: Music, Theatre, 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.

Suggested Plan of Study:
Example given shows a student majoring in Performance. See program description for all requirements. Consult the program advisor for alternate, new, or more appropriate selections.

Program A: Strings, Woodwinds, Brass
Freshman Year
Fall
ENC 1101 Composition I (GEP A.1) 3
MUT 1221 Music Theory and Musicianship I 4
MUN XXXX Major Ensemble 1
MVX 141X Performance I 2
MVK 1111 Class Piano I 1
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3
MUS 2360C Intro to Music Technology 3

Spring
ENC 1102 Composition II (GEP A.2) 3
MUT 1222 Music Theory and Musicianship II 4
MUN XXXX Major Ensemble 1
MVX 141X Performance I 2
MVK 1112 Class Piano II 1
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3
MUS 2360C Intro to Music Technology 3

Sophomore Year
Fall
SPC 1600 Fundamentals of Music Comp (GEP A.3) 3
MUT 2216 Music Theory and Musicianship III 4
MUN XXXX Major Ensemble 1
MVX 242X Performance II 2
MVK 2211 Class Piano III 1
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3
MUG 3104 Basic Conducting 2

Spring
GEP B.1 Music & Cultural Foundation 3
MVX 242X Performance II 2
MVK 2212 Class Piano IV 1
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3
MUG 3104 Basic Conducting 2

Junior Year
Fall
GEP B.2 Cultural & Historical Foundation 3
MUN XXXX Major Ensemble 1
MVX 343X Performance III 3
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3

Spring
MVX 343X Restricted Electives 3
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3

Program B: Percussion
Freshman Year
Fall
ENC 1101 Composition I (GEP A.1) 3
MUT 1221 Music Theory and Musicianship I 4
MUN XXXX Major Ensemble 1
MVK 1111 Class Piano I 1
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3

Spring
ENC 1102 Composition II (GEP A.2) 3
MUT 1222 Music Theory and Musicianship II 4
MUN XXXX Major Ensemble 1
MVK 1112 Class Piano II 1
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3

Sophomore Year
Fall
SPC 1600 Fundamentals of Music Comp (GEP A.3) 3
MUT 2216 Music Theory and Musicianship III 4
MUN XXXX Major Ensemble 1
MVX 343X Performance III 3
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3

Spring
GEP B.1 Music & Cultural Foundation 3
MUT 2217 Music Theory and Musicianship IV 4
MUN XXXX Major Ensemble 1
MVX 343X Performance III 3
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3

Junior Year
Fall
GEP B.2 Cultural & Historical Foundation 3
MUN XXXX Major Ensemble 1
MVX 343X Performance III 3
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3

Spring
MVX 343X Restricted Electives 3
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3

Program C: Piano
Freshman Year
Fall
ENC 1101 Composition I (GEP A.1) 3
MUT 1221 Music Theory and Musicianship I 4
MUN XXXX Major Ensemble 1
MVK 1111 Class Piano I 1
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3

Spring
ENC 1102 Composition II (GEP A.2) 3
MUT 1222 Music Theory and Musicianship II 4
MUN XXXX Major Ensemble 1
MVK 1112 Class Piano II 1
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3

Sophomore Year
Fall
SPC 1600 Fundamentals of Music Comp (GEP A.3) 3
MUT 2216 Music Theory and Musicianship III 4
MUN XXXX Major Ensemble 1
MVX 343X Performance III 3
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3

Spring
GEP B.1 Music & Cultural Foundation 3
MUT 2217 Music Theory and Musicianship IV 4
MUN XXXX Major Ensemble 1
MVX 343X Performance III 3
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3

Junior Year
Fall
GEP B.2 Cultural & Historical Foundation 3
MUN XXXX Major Ensemble 1
MVX 343X Performance III 3
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3

Spring
MVX 343X Restricted Electives 3
MUS 1010 Music Forum 0
MUL 2014 Intro to Music History and Literature 3

Professional Sequence Entrance Review
15 17

Professional Sequence Entrance Review
16 17
### UCF Degree Programs

#### NURSING (B.S.N.)

**A. BASIC PROGRAM**

**For individuals who are not Registered Nurses**

**College of Nursing**

**HPA1 220, 407-823-2744**

http://www.cohpa.ucf.edu/nursing/

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

Dean: Jean Leuner; Associate Dean Undergraduate: Linda Henning; 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 College of Nursing prior to February 1 of the year admission is sought for the Orlando Campus and June 1 of the prior year for January admission on the Brevard and Daytona Campus (see information on Accelerated Second Degree program for deadline).

- **Application for admission to the University must also be submitted by the program deadline.**

- **Student must complete all general education, foreign language, and program prerequisite requirements prior to the start of the program. Students that transfer with an AA degree and will be pursing a BS degree must meet the University foreign language admission requirements for graduation.**

- **Three prerequisite biological science courses must be completed by the program application deadline. Five of the nine program prerequisites must be completed by the program application deadline.**

- **The College of Nursing has a demanding curriculum. The classes are work-intensive and courses include clinical practice in a variety of settings. Due to this, it is strongly recommended that students be at least one year post high school prior to applying to the basic nursing program. Students with concerns or questions should contact the nursing office for an appointment with a basic faculty advisor.**

- **All applicants must have a minimum overall GPA of 2.80, and complete all program prerequisite courses with a grade of “C” (2.0) or better.**

- **Early acceptance may be offered to First-Time-in-College (FTIC) students during their sophomore year and to students in the Military Enlisted Commissioning Program (MECP). For specific information about early acceptance, contact the School of Nursing.**

Graduates are eligible to apply to take the licensing examination for registered nurses (NCLEX-RN). The program is accredited by the Commission on Collegiate Nursing Education and approved by the Florida State Board of Nursing.

**Degree Requirements**

- **Students who change degree programs and select this major must adopt the most current catalog.**

- **Students should consult with a college advisor or community college A.A. transfer advisor regarding completion of General**
### UCF Degree Programs

- **Education requirements and the Common Program Prerequisites**
  - Students should consult with a College of Nursing advisor for clarification of questions regarding prerequisite requirements.
  - The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other universities, and should be completed in the first 60 hours.
  - A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the nursing major are required for continuation and graduation from the Nursing Program.
  - UCF Residency Requirement: 30 hours
  - Any variation from the stated prerequisites must be approved in writing by the College of Nursing. Petition forms are available in the College of Nursing office.

### 1. UCF General Education Program (36+1 hrs)

<table>
<thead>
<tr>
<th>A. Communication Foundations</th>
<th>9 hrs</th>
</tr>
</thead>
<tbody>
<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 STA 2014C</td>
<td></td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>Select both SYG 2000 and PSY 2012*</td>
<td></td>
</tr>
<tr>
<td>E. Science Foundations:**</td>
<td>7 hrs</td>
</tr>
<tr>
<td>Select BSC 2010C</td>
<td></td>
</tr>
<tr>
<td>Select CHM 1032 (and lab)</td>
<td></td>
</tr>
</tbody>
</table>

*One of these courses is required to meet General Education requirements, but both are required program prerequisites.

**Science Foundation is 6 credit hours for General Education Program. However the nursing program prerequisite requires 4 CHM credits. To earn this, the student must also take the CHM 1032 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

### 2. Common Program Prerequisites (21 hrs)

| PSY 2012 | General Psychology** | GEP |
| SYG 2000 | Sociology** | 3 hrs |
| MCB 2004C | Health Microbiology (S***) | 4 hrs |
| CHM 1032L | General Chemistry and lab**(S***) | GEP |
| ZOO 3733C | Human Anatomy**(S***) | 4 hrs |
| PCB 3703C | Human Physiology** | 4 hrs |
| STA 2014C or 2023 | Principles of Statistics** | GEP |
| SOV 3104 | Assessing Human Development | 3 hrs |
| or 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. The first semester of a two semester general chemistry course does not meet requirement (ie CHM 1045, 2045, Chemistry I).

***S*** indicates biological science prerequisite.

### 3. Core Requirements (64 hrs)

| NUR 3065 | Health Assessment | 2 hrs |
| NUR 3065L | Health Assessment Lab | 1 hr |
| NUR 3825 | Role of Professional Nurse | 2 hrs |
| NUR 3028 | Essentials of Nursing Practice | 2 hrs |
| NUR 3755L | Essentials of Nursing Practice Clinical | 2 hrs |
| NUR 3028L | Essentials of Nursing Practice Lab | 1 hr |
| NUR 3634 | Community Health Nursing | 3 hrs |
| NUR 3634L | Community Health Nursing Clinical | 2 hrs |
| NUR 3125 | Pathophysiology for Nurses | 3 hrs |
| NUR 3145 | Pharmacology for Nurses | 3 hrs |
| NUR 3225 | Nursing Care of the Adult I | 3 hrs |
| NUR 3225L | Nursing Care of the Adult I Clinical | 2 hrs |
| NUR 3445 | Nursing Care of Families | 3 hrs |
| NUR 3445L | Nursing Care of Families Clinical | 2 hrs |
| NUR 3165 | Nursing Research | 3 hrs |
| NUR XXXX | Nursing Elective | 3 hrs |
| NUR 4837 | Health Care Issues, Policy, and Economics | 3 hrs |
| NUR 4932 ST | Nursing Care of the Adult II | 3 hrs |
| NUR 4932L ST | Nursing Care of the Adult II Clinical | 3 hrs |
| NUR 4932 ST | Psychiatric Mental Health Nursing | 3 hrs |
| NUR 4932L ST | Psychiatric Mental Health Nursing Clinical | 2 hrs |
| NUR 4932 ST | Leadership, Management and Role Transition | 3 hrs |
| NUR 4257 ST | Introduction to Critical Care | 3 hrs |
| NUR 4832 ST | Public Health Nursing | 3 hrs |
| NUR 4932L ST | Public Health Nursing Clinical | 1 hr |

Any variation from the above must be approved by the school of Nursing.

### 4. Upper Division Restricted Electives (3 hrs)

**Nursing Elective:** Any College of Nursing Elective approved by advisor

### 5. Departmental Continuation and Exit Requirements

- Completion of all courses in major with a grade of “C” (2.0) or better
- UCF GPA of 2.5 or above
- College of Nursing GPA of 2.5 or above

### 6. Electives

- None

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

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

**Graduation:** None

### 8. University Minimum Exit Requirements

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

### Total Semester Hours Required

- 122 hrs

**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
- General Sociology (SYG 2000) or any Intro to Sociology course
- Statistics (STA 2014C or 2023) or any Statistics course
- General Chemistry (CHM 1032 or any other comprehensive chemistry course w/lab)
- Human Anatomy and Physiology I & II w/lab (BSC 2093/2094) or (BSC X085/X086)
- General Microbiology (MCD 3020C) or any Microbiology course w/lab
- Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course
- Gross Anatomy

**Human Nutrition with therapeutic nutrition focus**

**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

**Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.**

### Freshman Year

- **Fall:** 16 hrs
  - SYG 2000
  - ENC 1102
  - MAC 1105
  - STA 2014C or STA 2023
  - BSC 2010C
  - PSY 2012
- **Spring:** 14 hrs
  - CHM 1032L
  - ENC 1102
  - STA 2014C or STA 2023
  - ZOO 3733C
  - SPC 1600

**Sophomore Year**

- **Fall:** 16 hrs
  - SYG 2000 or ECO 2013 or ECO 2023
  - ENC 1102
  - MAC 1105
  - STA 2014C or STA 2023
  - BSC 2010C
  - PSY 2012
- **Spring:** 13 hrs
  - HUM 2210 or AMH 2010 or WO H 2012
  - MCB 2004C
  - PCB 3703C
  - SPC 1600

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SOW 3104 or
DEP 2004
HUN 3011

3 (One Course:)
ARH 2050, ARH 2051, MUL
2010, THE 2000, REL 2300,
PHI 2010, LIT 2110, LIT 2210

Junior Year
Fall

NUR 3825
NUR 3065
NUR 3065L
NUR 3028
NUR 3752L
NUR 3028L
NUR 3634
NUR 3634L

15 hrs
2
2
1
2
2
1
3
2

Spring

NUR 3125
NUR 3145
NUR 3225
NUR 3225L
NUR 3445
NUR 3445L

16 hrs
3
3
3
3
3
2

NUR XXXX Elective
(NOT already taken)
3

Senior Year
Fall

NUR 4932 ST
NUR 4922L ST
NUR 4922 ST
NUR 4922L ST
NUR 4837 or
NUR XXXX Elective

14-17 hrs
3
3
3
2
3
3

Spring

NUR 4932 ST
NUR 4922L ST
NUR 4922 ST
NUR 4922L ST

13-16 hrs
3
3
2
1

University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see http://distrib.ucf.edu/home.

NURSING (B.S.N.)
B. RN TO BSN PROGRAM

Completion program for individuals who are licensed RNs

College of Nursing
HPA1 220, 407-823-2744
http://www.cohpa.ucf.edu/nursing/
E-mail: ucfnurse@mail.ucf.edu

RN to BSN Coordinator

This program is also available online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see http://distrib.ucf.edu/home.

Admission Requirements
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 College of Nursing. All applicants must have:

- Admission to UCF undergraduate program
- Graduation from an approved or accredited associate degree or diploma nursing program
- Current Licensure as an RN (or eligible)
- Progress toward the UCF general education requirements, an AA degree from a Florida Community College, and 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

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 College of Nursing advisor for clarification of questions regarding prerequisite requirements
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College or other university
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the Nursing major are required for continuation in and graduation from the Nursing Program

- UCF Residency Requirement: 30 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

- Communication Foundations
- Cultural Historical Foundations
- Mathematical Foundations

- MAC 1105
  - Select MAC 1105
- Select STA 2014C or STA 2023
- Select one: ECO 2013 or ECO 2023 or POS 2041

- Science Foundations:
  - Select two from PHY 1047H, PHY 1044H, CHM 1031H, CHM 1032H

2. Common Program Prerequisites

- PSY 2012
- SYG 2000
- MCB 2004C
- CHM 1032
- CHM 1052L
- ZOO 3733C
- PCB 3703C
- STA 2014C or 2023
- SOW 3104
- POS 2010
- SYG 2000

- DEP 2004
- HUN 3011

- SYG 2000
- MCB 2004C
- CHM 1032
- CHM 1052L
- ZOO 3733C
- PCB 3703C
- STA 2014C or 2023
- SOW 3104
- POS 2010
- SYG 2000

- DEP 2004
- HUN 3011

3. Core Requirements

- NUR 3805
- NUR 3065
- NUR 3065L
- NUR 3165
- NUR 3634
- NUR 4837
- NUR 4857
- NUR XXXX
- NUR 4XXX

- POS 2041
- POS 2010
- POS 2023

4. Upper Division Credit

- NUR XXXX

Upper Division Restricted Elective

- NUR XXXX

5. Departmental Exit Requirements

- Overall cumulative GPA of 2.5 or above
- College of Nursing GPA of 2.5 or above

6. Electives

- Variable to meet degree requirements

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.

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-
UCF Degree Programs

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

Total Semester Hours Required: 120 hrs

Related Programs: Health Services Administration, Social Work, All health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

Sample Plan of Study

<table>
<thead>
<tr>
<th>Semester I</th>
<th>Semester II</th>
</tr>
</thead>
<tbody>
<tr>
<td>NUR3805</td>
<td>3 NUR 3165</td>
</tr>
<tr>
<td>NUR 3065</td>
<td>2 NUR 3634 Community Health</td>
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<tr>
<td>NUR 3065L</td>
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<table>
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<tr>
<th>Semester III</th>
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<tbody>
<tr>
<td>NUR 4037</td>
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<tr>
<td>NUR XXXX (elective)</td>
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<tr>
<th>Semester IV</th>
<th>Semester V</th>
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<tr>
<td>NUR 4xxx Leadership</td>
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<tr>
<td>NUR 4xxx Public Health</td>
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<tr>
<td>NUR 4xxx elective</td>
<td></td>
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<tr>
<td>3 NUR 4xxx Practicum</td>
<td></td>
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</tbody>
</table>

*Elective may be taken at any point.

Progression requirements:
- Prior to NUR 3805: RN status or eligible to take NCLEX.
- Prior to NUR 3165: Complete NUR 3805 and Statistics course with grade of “C” (2.0) or better.
- Prior to NUR 3634 Community Health Nursing
  - Be admitted to the nursing program
  - Complete general education requirements and prerequisites or A.A. from a Florida public community college or university (SUS)
  - Complete CLAST (or exempt)
  - Complete Foreign language admission requirement

Other
- Selected courses may be offered at regional campuses of Daytona and Cocoa.
- The RN-BSN coursework is also offered via the Internet. Some on-campus labs and clinical practice may be required. For further information access [http://www.cohpa.ucf.edu/nursing/](http://www.cohpa.ucf.edu/nursing/).

Nursing Accelerated Second Degree

C. Bachelor of Science in Nursing (BSN) Option

Note: For detailed information about this program, see description in the UCF Accelerated Degree Programs section.

Nursing (B.S.N.)

D. RN to MSN Option

Note: For detailed information about this program, see description in the UCF Accelerated Degree Programs section.

Nursing (B.S.N.)

E. AS to BSN Track

Note: For detailed information about this program, see description in the AS to BS Program section.

Nursing (B.S.N.)

F. SCC/UCF ASN to BSN enrollment option

College of Nursing
HPA1 220, 407-823-2744
http://www.cohpa.ucf.edu/nursing/
E-mail: ucfnurse@mail.ucf.edu

RN to BSN Coordinator

Program Description
A partnership between Seminole Community College (SCC) and UCF College of Nursing to allow qualified Associate of Science in Nursing (ASN) students to enter the RN to BSN program while completing the ASN at SCC. This program allows simultaneous enrollment in both associate and baccalaureate nursing programs.

Admission Requirements

Acceptance to the University does not constitute admission to this program. Only students admitted to the Seminole Community College Nursing Program are invited to apply to this SCC/UCF Enrollment option. Upon invitation, students must make separate application to the UCF College of Nursing. Students are accepted into this program during their first year of nursing at SCC and must progress according to a designated plan of study.

At the time of application, students must have:
- A cumulative GPA of 2.8 or above
- Been accepted for enrollment and in good standing at SCC ASN Nursing program.
- An AA degree from a Florida Community College or have met UCF General Education requirements
- Met UCF Foreign Language admission requirement
- Completed pre-requisite coursework for both the UCF and the SCC nursing programs.
- Completed all sections of CLAST (or exempt)

Students not yet admitted to UCF must make application and be accepted by the University. Upon completion of the ASN and successful licensure as a Registered Nurse, students will enroll in remaining UCF Nursing upper division courses to complete the BSN.

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 College 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 university
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the Nursing major are required for continuation in and graduation from the Nursing Program
- UCF Residency Requirement: 30 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+1 hrs)

| A. Communication Foundations | 9 hrs |
| B. Cultural Historical Foundations | 9 hrs |
| C. Mathematical Foundations | 6 hrs |
| 1. Select MAC 1105 | |
| 2. Select STA 2014C or STA 2023 | |
| D. Social Foundations | 6 hrs |
| 1. Select SYG 2000 or PSY 2012 | |
| 2. Select one: ECC 2013 or ECC 2023 or PSY 2041 | |
| E. Science Foundations:* | 7 hrs |
| 1. Select BSC 2010C (4) | |
| 2. Select CHM 1032 (3) | |

*One of these courses is required to meet General Education requirements, but both are required program prerequisites.

**Science Foundation is 6 credit hours for General Education Program. However the nursing program prerequisite requires 4 CHM credits. To earn this, the student must also take the CHM 1032 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

2. Common Program Prerequisites (21 hrs)

| PSY 2012 | General Psychology** | GEP |
| SYG 2000 | Sociology | 3 hrs |
| MCB 2004C | Health Microbiology | 4 hrs |
| CHM 1032/L | General Chemistry** | GEP |
| ZOO 3733C | Human Anatomy* | 4 hrs |
| PCB 1702C | Human Physiology | 3 hrs |
| STA 2014C or 2023 | Principles of Statistics** | GEP |
| SOW 2104 | Assessing Human Development | 3 hrs |
| or DEP 2004 | Developmental Psychology | |
3. Core UCF Requirements (25 hrs)
NUR 3808 Professional Socialization in Nursing 1 hr
NUR 3805 Dimensions of Professional Nursing Practice 3 hrs
NUR 3065 Health Assessment 2 hrs
NUR 3065L Health Assessment Lab 1 hr
NUR 3165 Nursing Research 3 hrs
NUR 3634 Community Health Nursing 3 hrs
NUR 4XXX Leadership, Management and Role Development 3 hrs
NUR 4837 Health Care Issues, Policy, & Economics 3 hrs
NUR 4XXX Public Health Nursing 2 hrs
NUR 4XXXL Practicum in Community and Public Health Nursing for RNs 4 hrs

Upper Division Credit* (26 hrs)
NUR 3028 Essentials of Nursing Practice 2 cr.
NUR 3028L Essentials of Nursing Practice Lab 1 cr.
NUR 3755L Essentials of Nursing Practice Clinical 2 cr.
NUR 3225 Nursing Care of the Adult I 3 cr.
NUR 3225L Nursing Care of the Adult I Clinical 2 cr.
NUR 3445 Nursing Care of Families 3 cr.
NUR 3445L Nursing Care of Families Clinical 2 cr.
NUR 3XXX Nursing Care of the Adult II 3 cr.
NUR 3XXXL Nursing Care of the Adult II Clinical 3 cr.
NUR 3XXX Psychiatric Mental Health Nursing 3 cr.
NUR 3XXXL Psychiatric Mental Health Nursing Clinical 2 cr.

*May be met by validation

4. Upper Division Restricted Elective (6 hrs)
NUR XXXX Any two upper division Nursing Electives 6 hrs

5. Departmental Exit Requirements
Completion of all courses in major with a grade of “C” (2.0) or better
- Overall Cumulative GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

6. Electives (variable to meet degree requirements)

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

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

Total Semester Hours Required 120 hrs

Related Programs: Health Services Administration, Social Work, All health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

Sample Plan of Study (Junior Year UCF)
While Enrolled in SCC Associate of Science in Nursing Program

Semester I
NUR 3806 1
NUR 3065 2
NUR 3065L 1

Semester II
NUR 3808 3

Semester III
NUR 3165 3
NUR 3XXX Community Health 3

Semester IV
NUR 4837 3

Semester V
NUR elective 3

Semester VI
NUR 4XXX elective 3
4XXX Public Health 2

Semester VII
NUR 4XXX Leadership 3
NUR 4XXXL Practicum 4

ORGANIZATIONAL COMMUNICATION (B.A.)
See Interpersonal/Organizational Communication.

PHILOSOPHY (B.A.)
College of Arts and Humanities
Philosophy Department
http://www.cas.ucf.edu/philosophy
E-mail: philosophy@ucf.edu
Contact: Don Jones or Jennifer Mundale, 407-823-2273;
Fax: 407-823-6658

Admission Requirements none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “C” (2.0) in each required course.
- Co-op or 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)
- Communication Foundations 9 hrs
- Cultural and Historical Foundations
  - Select HUM 2210 Humanistic Traditions I 3 hrs
  - Select HUM 2230 Humanistic Traditions II 3 hrs
  - Select PHI 2010 Intro to Philosophy 3 hrs
- Mathematical Foundations
  - Prefer MGF 1106 Finite Mathematics (may substitute a higher level math) 3 hrs
  - Prefer STA 1060C Statistics Using Excel 3 hrs
- Social Foundations 6 hrs
- Science Foundations 6 hrs

2. Common Program Prerequisites none

3. Core requirements* (36 hrs)
- Core (0 hrs)
  - HUM 2210 Humanistic Traditions I GEP
  - HUM 2230 Humanistic Traditions II GEP
  - PHI 2010 Intro to Philosophy GEP
  - PHI 3083 Research Methods (3 hrs)
  - To be completed before the end of Junior year as a prerequisite to enrollment in Senior courses.
  - PHI 4793 Senior Research Seminar (3 hrs)
- Reasoning: (6 hrs)
  - Take any two of the following courses:
    - PHI 2011 Philosophical Reasoning
    - PHI 2101 Critical Thinking
    - PHI 2108 Formal Logic I
    - PHI 2647 Logic and Ethics
    - PHI 3131 Formal Logic II
- History of Philosophy (9 hrs)
  - Take two of the following courses:
    - PHH 3100 Ancient Philosophy
    - PHH 3200 Medieval Philosophy
    - PHH 3460 Modern Western Philosophy
  - Take one of the following courses:
    - PHH 3600 Contemporary Philosophy
    - PHH 3610 Marx and Nietzsche
    - PHH 3700 American Philosophy
    - PHI 3730 African Philosophy
- Values and Society (6 hrs)
  - Take any two of the following courses:
    - PHI 3670 Ethical Theory
PHI 3626 Advanced Ethics in Science and Technology  
PHM 3401 Philosophy of Law  
PHI 3800 Aesthetics  
PHM 3123 Feminist Theories  
PHI 3638 Ethical Issues in the 21st Century  
PHI 3625 Virtual Ethics  
PHI 4633 Ethics and Biological Science  
PHM 3100 Freedom and Justice  
PHI 3640 Environmental Ethics  
PHM 4031 Environmental Philosophy  
PHI 3701 Native American Philosophy  
PHI 3805 Contemporary Aesthetics  

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E. Being and Knowing (6 hrs)

Take any two of the following courses:

PHI 4500 Metaphysics  
PHI 4341 Ways of Knowing  
PHI 4300 Theories of Knowledge  
PHI 3700 Philosophy of Religion  
PHI 4400 Philosophy of Science  
PHI 3220 Philosophy of Mind  
PHI 3451 Philosophy of Psychology  
PHI 4420 Philosophy of Social Science  
PHI 3323 Minds and Machines  
PHP 4782 Phenomenology  
PHI 4221 Philosophy of Language

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. Departmental Exit Requirements (3 hrs)

- Either PHI 4970H: Honors Thesis (3 hrs) or PHI 4938 Senior Research Seminar.
- Earn a "C" (2.0) or better in each required course.
- Computer Competency met by PHI 4970H, PHI 4938, or by STA 1060C.
- Departmental Exit Exam in final semester.
- To avoid delaying graduation, you must request a review of requirements prior to registering for your last term.

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement. Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

7. Electives (variable - to reach 120)

Select primarily from upper level courses, with departmental advisor’s approval. May be outside the department.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA  
- 60 semester hours earned after CLEP awarded  
- 48 semester hours of upper division credit completed  
- 30 of the last 36 hours of course work must be completed in residency at UCF

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

Total Semester Hours Required (120 hrs)

Related Programs: Humanities, Humanities - Philosophy, Religion, Pop Culture Track, Religious Studies

Related Minors: Cognitive Sciences, Environmental Studies, Humanities, Philosophy, Religious Studies, Women’s Studies

Transfer Notes:

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

Honors in the Major:

Students considering graduate school in philosophy are strongly encouraged to take Honors in the Major. Requirements are as follows:

Core requirements (36 hrs)

Same requirements as for regular majors, but must include PHI 2101 Formal Logic I

Upper division Restricted Electives (6 hrs)

Same requirements as for regular majors.

Honors Thesis

PHI 4903H Honors Directed Reading 3 hrs  
PHI 4970H Honors Thesis 3 hrs

Additional Requirements:

- Application and admission through the Philosophy Honors Coordinator and the Burnett Honors College
- Fulfill University requirements for Honors in the Major
- Earn a “B” (3.0) or better in both PHI 4903H and PHI 4970H
- Maintain UCF GPA of at least 3.2 and a Philosophy GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. (i.e. “req#1 C1-GEP” indicates a requirement from section 1 “UCF General Education Program,” section C Mathematical Foundation #). Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year

Fall  
ENC 1101 Composition I 3  
HUM 2210 Hum Tradition I 3  
MGF 1106 req# LC1-GEP 3  
PHI 2101 Intro to Phil 3  
SPN 1120 req# Lang/Elect 4  
SPN 1121 req# Lang/Elect 4  

Spring

ENC 1102 Composition II 3  
HUM 2230 Hum Tradition II 3  
MGF 1106 req# LC2-GEP 3  
PHI 2101 Intro to Phil 3  
SPN 1120 req# Lang/Elect 4  
SPN 1121 req# Lang/Elect 4  

Sophomore Year

Fall  
BSC 1005 req# 1E2-GEP 3  
PSY 2012 req# 1D2-GEP 3  
PHI 3320 req# 3e-DiscHistory 3  
PHI 4321 req# 3f Topics 3  

Spring  
BSC 1005 req# 1C2-GEP 3  
PSY 2012 req# 1D1-GEP 3  
PHI 4321 req# 3f Topics 3  

Junior Year

Fall  
PHI 3083 Res Meth in Phil 3  
PHM 3100 req# 3c-History 3  
PHI 3320 req# 3e-Being 3  
Elective* Check restrictions 3  
Elective* Check restrictions 3  

Spring  
PHI 3083 Res Meth in Phil 3  
PHM 3100 req# 3c-History 3  
PHI 3320 req# 3e-Being 3  
Elective* Check restrictions 3  
Elective* Check restrictions 3

Senior Year

Fall  
PHI 3766 req# 4-ResEle 3  
PHI 4804 req# 4-ResEle 3  
Elective* or PHI 4903H 3  
Elective* Check restrictions 3  

Spring  
PHI 3766 req# 4-ResEle 3  
PHI 4938 Seminar 3  
Elective* or PHI 4970H 3  
Elective* Check restrictions 3  
Elective* Check restrictions 3
PHOTOGRAPHY (B.S.)
College of Arts and Humanities
E-mail: ls@mail.ucf.edu
Advisors: Kevin Haran (UCF-Orlando), 407-823-2676; Jason Burrell (UCF-Daytona), 386-506-3944
The Photography B.S. program is a joint program between the University of Central Florida and Daytona Beach Community College.

(This program is only offered at UCF at the Daytona Beach Campus)

The Art Department affirms that a theoretical and working understanding of the historical meanings and studio applications of the human image are critical in the education of Visual Art and Art History students. To develop such an understanding, Art Department courses often utilize images of clothed and unclothed human figures and, in certain studio classes, live nude models.

Admission Requirements
Completion of an A.S. in Photographic Technology from Daytona Beach Community College or equivalent coursework.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students should consult with a Photography advisor before selecting this major, and at least annually thereafter.
- Upper-division electives, internship credit, and course substitutions must be approved by the program director.
- Students must earn a minimum of 127 semester hours.

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  3 hrs
   SPC 2600* Speech  AS
B. Cultural and Historical Foundations
   6 hrs
   ARH 2051 History and Criticism of Art II  AS
C. Mathematical Foundations
   3 hrs
   MAC 1105 College Algebra or
   MGF 2106 College Mathematics or
   MGF 2107 Mathematics for Liberal Arts
   Computer Science or Statistics
D. Social Foundations
   3 hrs
   Political Science or Economics
   Psychology or Sociology
E. Science Foundation
   3 hrs
   Physical Science
   Life Science
2. Common Program Prerequisites (0 hrs)
   Subject to change. Prerequisites have not been set by the state.
   ARH 2051 History and Criticism of Art II  AS
   GRA 1741* Principles of Design and Color  AS
   GRA 1100* Computer Graphics Fundamentals  AS
   PGY 1403* Fundamentals of Photography  AS
   PGY 3610C Photomedia I  BS
3. AS Required Courses: (49 hrs)
   (Completed in the A.S. degree program in Photographic Technology, or equivalent coursework)
   CGS 1570 Introduction to Computer Applications  1 hr
   DIG 1105 Digital Imaging Fundamentals  3 hrs
   GRA 1741 Principles of Design and Color  3 hrs
   PGY 1115 Color Materials and Processes  7 hrs
   PGY 1265 Advanced Processes and Techniques  4 hrs
   PGY 1403 Fundamentals of Photography  4 hrs
   PGY 1402 Photographic Materials and Processes  4 hrs
   PGY 1806 Digital Imaging  4 hrs
4. Upper Division Required Courses (39 hrs)
   PGY 3002 Contemporary Photography  3 hrs
   ARH 3711 History of Photography II  3 hrs
   PGY 4003 Image, Culture, and Society  3 hrs
   CRW 3011 Creative Writing for Non-Majors  3 hrs
   PGY 3821 Digital Imagery for Photography  3 hrs
   PGY 3610C Photomedia I  3 hrs
   PGY 3620C Photomedia II  3 hrs
   PGY 4472 Photography Workshop/Project  3 hrs
   PGY 4228 Advanced Illustrative Photography  3 hrs
   PGY 4471 Photography Thesis  3 hrs
   PGY 3324 The Professional Environment  3 hrs
   PGY 3205 Photographic Lighting Techniques  3 hrs
   PGY 3480 Photographic Exhibition and Display  3 hrs
5. Upper Division Restricted Electives (3 hrs)
   Select one of the following courses.
   PGY 3451 Alternative Processes  3 hrs
   PGY 3809 Photography and Web Design  3 hrs
   PGY 3751 Videography  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 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 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)
Total Semester Hours Required  127 hrs

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.
- Transfer courses must be evaluated for equivalency credit and/or for use in the area by the department. The student must provide all supporting information.

Acceptable substitutes for General Education and Common Program Prerequisites
- ARH1000* May substitute ARH 2500 or ARH 2050
- GRA 1741* May substitute GRA 2111C
- GRA 1800* May substitute GRA 2140C

PHYSICAL EDUCATION (B.S.)
College of Education
Department of Teaching and Learning Principles, ED 209
http://pegasus.cc.ucf.edu/~ucfphysed/
Program Coordinator: Dr. Patricia Higginbotham, ED 320-H, 407-823-2050, E-mail: higginbp@mail.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
UCF Degree Programs

- Complete all Education Common Program Prerequisites and Other Program Prerequisites courses with a minimum letter grade of "C-" (1.75) or better.

**Degree Requirements**

- Students should see an advisor prior to registering for classes.
- The courses designated in 1 (UCF General Education Program), 2 (Education Common Program Prerequisites), and 3 (Other Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- This is a state-approved, initial teacher preparation program designed in compliance with Florida Statutes and State Board of Education Rule 6A-5.066. Degree requirements are subject to change based on state mandates.

1. **UCF General Education Program** (36+1 hrs)
   - A. Communication Foundation (9 hrs)
     1. ENC 1101 English Composition I 3 hrs
     2. ENC 1102 English Composition II 3 hrs
   - B. Cultural-Historical Foundation (9 hrs)
     1. Prefer: AMH 2010 U.S. History 1492-1877 3 hrs
     2. Elective from GEP section B.2. 3 hrs
     3. Prefer: AMH 2020 U.S. History 1877-present 3 hrs
   - C. Mathematical Foundation (6 hrs)
     1. Prefer: MGF 1106 Finite Mathematics 3 hrs
     2. Prefer: STA 100C Basic Statistics using MS Excel or STA 2014C of Statistics
   - D. Social Foundation (6 hrs)
     1. Prefer: POS 2041 American National Government 3 hrs
     2. Prefer: PSY 2012 General Psychology 3 hrs
   - E. Science Foundation (7 hrs)
     1. Prefer: PSC 1211 Physical Science 3 hrs
     2. Select: BSC 2010C Biology I 4 hrs

2. **Communication Program Prerequisites** (9 hrs)
   - EDF 2005 Introduction to Education 3 hrs
   - EDC 2701 Teaching Diverse Populations 3 hrs
   - EME 2040 Technology for Educators 3 hrs

3. **Other Program Prerequisites** (10 hrs)
   - BSC 2010C Biology I 4 hrs
   - ZOO 3796C Human Anatomy with Lab 4 hrs
   - PET 2622C Human Injuries 3 hrs
   - Select one:
     - PEO 2011 Team Sports or 3 hrs
     - PEO 2031 Indiv. Sports and Leisure Activities 3 hrs

4. **Lower Division Electives** (9 hrs)
   Lower division electives 9 hrs

5. **Education Core Requirements** (12 hrs)
   - EDF 4323 Professional Teaching Practices 3 hrs
   - EDF 4214 Classroom Learning Principles 3 hrs
   - TSL 4080 Thry & Prac Teaching ESL Students in Schools 3 hrs
   - RED 4043 Content Reading K-12 3 hrs

6. **Specialization Requirements** (27 hrs)
   - ZOO 3796C Human Anatomy with Lab OPP
   - DAE 3370 Dance & Rhythms 3 hrs
   - PEO 3041 Games Analysis 3 hrs
   - PET 2622C Human Injuries OPP
   - PET 4050C Motor Development & Learning 3 hrs
   - PET 4312 Biomechanics 3 hrs
   - PET 4515C Applied Exercise & Human Physiology 3 hrs
   - PET 4401 Administration and Evaluation in PE 3 hrs
   - PET 4550 Fitness Assessment 3 hrs
   - PET 4640 Adapted PE 3 hrs
   - PET 4823C Teaching Sports Skills 3 hrs

7. **Internship I and Methods Block** (6 hrs)
   - PET 3940 Internship I 3 hrs
   - PET 4710 Teaching Physical Education K-12 3 hrs

**Program Internship I Prerequisites:**
- EDG 4323 must be completed prior to Internship I with a minimum grade of "C-" (1.75) or better. However, a minimum GPA of 2.5 is required in the professional, specialization, and overall for admission to Internship I.
- Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is recommended during the first semester (if CLAST was used for admission) and before application to Internship I. (If CLAST was used for admission, students must demonstrate proficiency in the 12 Florida Educator Accomplished Practice Standards, including Professional Knowledge, Professional Practice, and Pedagogical Practice, prior to Internship I.)
- Students must apply and be approved for Internship I. Deadline for applying for Internship I is during the first semester (if CLAST was used for admission) and before application to Internship I. (If CLAST was used for admission, students must pass all applicable sections of the Florida Teacher Certification Examination (FTCE) before registering for Internship I. However, a minimum GPA of 2.5 is required in the professional, specialization, and overall for admission to Internship I."

8. **Internship II (PET 4943)** (10 hrs)
   - All methods and specialization courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.
   - Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.
   - PET 4710 must be taken concurrently with PET 3940 (Internship I) or Internship II.
   - Junior/senior standing required; normally taken during next to last full-time semester.

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

10. **Departmental Exit Requirements**
   - Achieve a minimum 2.5 GPA in all courses within the major.
   - Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
   - Pass all applicable sections of the Florida Teacher Certification Examination.

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

12. **Total Semester Hours Required**
   - 120 hrs

13. **Coaching Endorsement (Optional)** (6 hrs)
   - PET 3765 Coaching Theory 3 hrs
   - Select one of the following courses:
     - PEO 2524 Coaching Basketball or 3 hrs
     - PEO 3324 Coaching Volleyball or 3 hrs
     - PEO 3544 Coaching Football 3 hrs

14. **Recommended Sequence of Program Courses:**

Freshman Year
- **Fall (13 hrs)**
  - BSC 2010C Biology I
  - EDF 2005 Introduction to Education
  - EDC 2701 Teaching Diverse Populations
  - PEO 3041 Games Analysis
  - PET 2622C Human Injuries
  - Select one:
    - PEO 2011 Team Sports or 3 hrs
    - PEO 3031 Individual Sports and Leisure Activities
  - PEO 3644 Coaching Football
  - PEO 3324 Coaching Volleyball
  - RED 4043 Content Reading Kindergarten through Grade 12

- **Spring (15 hrs)**
  - EDF 4214 Classroom Learning Principles
  - TSL 4080 Theory and Practice of Teaching ESOL Students in Schools
  - RED 4043 Content Reading K-12
  - PET 4550 Fitness Assessment
  - PET 4640 Adapted Physical Education
  - PET 4823C Teaching Sports Skills
  - PEO 2524 Coaching Basketball or 3 hrs
  - PEO 3324 Coaching Volleyball or 3 hrs
  - PEO 3544 Coaching Football

Summer
- **(6 hrs)**
  - EME 2040 Technology for Educators
  - POS 2041 American National Gov
## PHYSICS (B.S.)

**College of Sciences**  
**Physics Department, MAP 310, 407-823-2325**  
**E-mail: physics@ucf.edu**  
**http://www.physics.ucf.edu**  
**Chair: Talat S. Rahman, 407-823-2325**

Physics majors can select from five distinct tracks to earn their physics degree, as described below in Section 4, Specialization. While the various tracks share a common core of courses, they also enable students to prepare specifically for certain career paths. Students should consult their faculty advisors when deciding among these tracks.

### Admission Requirements

**none**

### Degree Requirements

- Students who change degree programs and select this major (usually completed in the first 60 hours) must adopt the most current catalog.
- Grades below "C" (2.0) in any required physics or mathematics courses are not acceptable; they must be repeated with a higher grade.
- Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Physics.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program (36+2 hrs)

**Note:** Certain courses must be selected in the GEP for this major which brings the GEP hours above 36.)

<table>
<thead>
<tr>
<th>Core Areas</th>
<th>Courses</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>A. Communication Foundations</strong></td>
<td>Select ENC 1101 and ENC 1102</td>
</tr>
<tr>
<td></td>
<td>2. Prefer SPC 1016</td>
</tr>
<tr>
<td><strong>B. Cultural and Historical Foundations</strong></td>
<td>Select MAC 2311</td>
</tr>
<tr>
<td></td>
<td>2. Prefer COP 2223</td>
</tr>
<tr>
<td><strong>C. Mathematical Foundations</strong></td>
<td>Select MAC 2311</td>
</tr>
<tr>
<td></td>
<td>2. Select a list course</td>
</tr>
<tr>
<td><strong>D. Social Foundations</strong></td>
<td>Select PHY 2048 &amp; L (PR.MAC 2311)</td>
</tr>
<tr>
<td><strong>E. Science Foundations</strong></td>
<td>Select a list course</td>
</tr>
</tbody>
</table>

### 2. Common Program Prerequisites (20 hrs)

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHM 2045C</td>
<td>Chem Fund I</td>
</tr>
<tr>
<td>CHM 2045LC</td>
<td>Chem Fund II &amp; lab</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>Calculus with Analy Geo I</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calculus with Analy Geo II</td>
</tr>
<tr>
<td>MAC 2313</td>
<td>Calculus with Analy Geo III</td>
</tr>
</tbody>
</table>

**Select one:**

- PET 2626C Human Injuries 3
- PET 4550 Fitness Assess & Exercise 3
- PET 4710 Teaching Physical Ed K-12 3
- PET 4623C Teaching Sports Skills 3
- ETS 4080 Theory & Pract of Teach 3
- PEO 2031 Indiv. Sports & Leisure Activ 3
- DAE 3370 Dance & Rhythmics 3
- RED 4043 Content Reading K-12 3

**Summer (6 hrs)**

- STA 2014C Principles of Statistics 3
- Lower division elective 3
- TSP 2014C Intro to Theoretical Math of Phys 3
- TSP 2014C Intro to Theoretical Math of Phys 3
- TSP 2014C Intro to Theoretical Math of Phys 3
- TSP 2014C Intro to Theoretical Math of Phys 3
- TSP 2014C Intro to Theoretical Math of Phys 3
- TSP 2014C Intro to Theoretical Math of Phys 3

**Junior Year**

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAC 2311</td>
<td>Calculus with Analy Geo I</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>Calculus with Analy Geo II</td>
</tr>
<tr>
<td>MAC 2313</td>
<td>Calculus with Analy Geo III</td>
</tr>
</tbody>
</table>

**Summer (6 hrs)**

- PET 4640 Adapated PE 3
- PET 4351C Appl Exercise & Human Physiology 3
- DAE 3370 Dance & Rhythmics 3
- RED 4043 Content Reading K-12 3
- TSP 2014C Intro to Theoretical Math of Phys 3
- TSP 2014C Intro to Theoretical Math of Phys 3
- TSP 2014C Intro to Theoretical Math of Phys 3
- TSP 2014C Intro to Theoretical Math of Phys 3

**Senior Year**

<table>
<thead>
<tr>
<th>Core Courses</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>PET 4550</td>
<td>Fitness Assess &amp; Exercise 3</td>
</tr>
<tr>
<td>PET 4710</td>
<td>Teaching Physical Ed K-12 3</td>
</tr>
<tr>
<td>PET 4823</td>
<td>Teaching Sports Skills 3</td>
</tr>
<tr>
<td>ETS 4080</td>
<td>Theory &amp; Pract of Teach 3</td>
</tr>
<tr>
<td>PEO 2031</td>
<td>Indiv. Sports &amp; Leisure Activ 3</td>
</tr>
</tbody>
</table>
- TSP 2014C Intro to Theoretical Math of Phys 3
- TSP 2014C Intro to Theoretical Math of Phys 3
- TSP 2014C Intro to Theoretical Math of Phys 3
- TSP 2014C Intro to Theoretical Math of Phys 3
- TSP 2014C Intro to Theoretical Math of Phys 3
- TSP 2014C Intro to Theoretical Math of Phys 3

### 3. Core requirements (all tracks) (36 hrs)

<table>
<thead>
<tr>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAP 2302</td>
<td>Differential Equations 3</td>
</tr>
<tr>
<td>PHY 3101</td>
<td>Physics Engr &amp; Sci III 3</td>
</tr>
<tr>
<td>PHY 3113</td>
<td>Intro to Theoretical Math of Phys 3</td>
</tr>
<tr>
<td>PHY 3220</td>
<td>Mechanics I 3</td>
</tr>
<tr>
<td>PHY 3513</td>
<td>Thermal and Statistical Physics 3</td>
</tr>
<tr>
<td>PHY 3323</td>
<td>Electricity and Magnetism I 3</td>
</tr>
<tr>
<td>PHY 4524</td>
<td>Electricity and Magnetism II 3</td>
</tr>
<tr>
<td>PHY 4604</td>
<td>Wave Mechanics I 3</td>
</tr>
<tr>
<td>PHY 4605</td>
<td>Wave Mechanics II 3</td>
</tr>
<tr>
<td>PHY 4912</td>
<td>Directed Independent Research 3</td>
</tr>
</tbody>
</table>

**Laboratory requirements**

- PHY 3802L Intermediate Physics Lab 3
- Select one of the following 3 hrs
  - PHY 3752C Physics of Sci Instruments 3
  - PHY 3722C Physics Laboratory: Electronics 3

### 4. Specialization: select one specialization

#### 4.1 General Physics Specialization (18 hrs)

- PHY 4803L Advanced Physics Lab 3
- Upper Division Restricted Electives 6 hrs
- PHY, PHZ, or AST courses 9 hrs

#### 4.2 Materials Physics Specialization (18 hrs)

- Choose one lab from:
  - PHY 4803L Advanced Physics Lab 3
- EEL 3545C Fabrication of Solid State Devices 4 hrs

Choose nine hours from:

- EEL 3545C Fabrication of Solid State Devices 3 hrs
- EEL 3545C Fabrication of Solid State Devices 3 hrs
- PHZ 5405 Condensed Matter Physics 3 hrs
- EEL 3545C Fabrication of Solid State Devices 3 hrs
- EEL 3545C Fabrication of Solid State Devices 3 hrs
- EEL 3545C Fabrication of Solid State Devices 3 hrs

**Directed Electives**

- Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Chemistry, Computer Science, or Engineering. 6 hrs

#### 4.3 Optics and Lasers Specialization (18 hrs)

- PHY 4424 Optics 3 hrs

Choose six hours from:

- EEL 4440 Optical Engineering 3 hrs
- PHY 4445 Lasers 3 hrs
- ESE 5203 Fundamentals of Applied Optics 3 hrs
- PHYS 5122 Fundamentals of Optical Science 3 hrs
- ESE 5203 Fundamentals of Applied Optics 3 hrs
- END 4414 Fund. of Optoelectronic Devices 3 hrs

**Directed Electives**

- Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering. 6 hrs

#### 4.4 Computational Physics Specialization (19 hrs)

- PHY 3511 Computer Methods in Physics 3 hrs
- COP 3502C Computer Science I 3 hrs
- COP 3502C Computer Science I 3 hrs
- COP 3502C Computer Science I 3 hrs
- COP 3502C Computer Science I 3 hrs
- COP 3502C Computer Science I 3 hrs

**Directed Electives**

- Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering. 6 hrs

#### 4.5 Astronomy Specialization (18 hrs)

- PHY 3511 Computer Methods in Physics 3 hrs
- AST 3211 Stellar Astrophysics 3 hrs
- AST 3211 Stellar Astrophysics 3 hrs
- AST 3211 Stellar Astrophysics 3 hrs
- AST 3211 Stellar Astrophysics 3 hrs

**Directed Electives**

- Courses at a 3000 level or higher, approved by the Physics Department. Courses must be chosen in Physics, Mathematics, Computer Science, or Engineering. 6 hrs

#### 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.

Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements
   Admission: Two years high school, or one year college language (or equivalent proficiency exam) prior to graduation.

   Graduation: none

   7. Electives
   (variable)

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

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted

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

   Semester Hours Required: 120 hrs

   Related Programs: Engineering, Mathematics

   Related Minors: Mathematics, Physics, Astronomy

   Transfer Notes:
   - Lower Division 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 or CHM 2040C plus CHM 2041C

   Suggested Plan of Study:

   One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

   Summer
   - Chem test See catalog: 0
   - Math test See catalog: 0

   Freshman Year
   Fall
   - ANT 2000* req# 1D2-GEP: 3
   - ENC 1101 Composition I: 3
   - ENF 2048 Phy for Eng Sci I: 3
   - MAC 2311 Calc Anal Geo I: 4
   - CHM 2045C Chem Fund I: 4
   - CHM 2046 Chemistry Fund II: 3
   - CHM 2046L Chemistry Fund L: 1
   - MAC 2312 Calc Anal Geo II: 4

   Spring
   - COP 3223 Intro to Prog C: 3
   - HUM 2210* req# 1B1-GEP: 3
   - SPC 1016 Fund Tech Pres: 3
   - MAC 2313 Calc Anal Geo III: 4
   - PHY 2049 Phy for Eng Sci II: 3
   - PHY 2049L Phy L Eng Sci II: 1

   Sophomore Year
   Fall
   - COP 3223 Intro to Prog C: 3
   - HUM 2210* req# 1B1-GEP: 3
   - SPC 1016 Fund Tech Pres: 3
   - MAC 2313 Calc Anal Geo III: 4
   - PHY 2049 Phy for Eng Sci II: 3
   - PHY 2049L Phy L Eng Sci II: 1

   Spring
   - COP 3223 Intro to Prog C: 3
   - HUM 2210* req# 1B1-GEP: 3
   - SPC 1016 Fund Tech Pres: 3
   - MAC 2313 Calc Anal Geo III: 4
   - PHY 2049 Phy for Eng Sci II: 3
   - PHY 2049L Phy L Eng Sci II: 1

   Junior Year
   Fall
   - ARH 2050* req# 1B3-GEP: 3
   - PHY 3220 Mechanics I: 3
   - PHY 3323 Elect Mag I: 3
   - PHY 4504 Wave Mechan I: 3
   - COP 3502C* req# 4-Spec: 3

   Spring
   - ARH 2050* req# 1B3-GEP: 3
   - PHY 3220 Mechanics I: 3
   - PHY 3323 Elect Mag I: 3
   - PHY 4504 Wave Mechan I: 3
   - COP 3502C* req# 4-Spec: 3

   Senior Year
   Fall
   - PHY 3513 Thermal & Stat Phy: 3
   - PHY 4912 Ind Research: 3
   - COP 4500* req# 4-Spec: 3
   - PHY 3722C Physics L Elect: 3
   - Elective* Check restrictions: 3

   Spring
   - PHY 3513 Thermal & Stat Phy: 3
   - PHY 4912 Ind Research: 3
   - COP 4500* req# 4-Spec: 3
   - PHY 3722C Physics L Elect: 3
   - Elective* Check restrictions: 3

POLITICAL SCIENCE (B.A.)

College of Sciences

Political Science Department, CNH 415, 407-823-2608
http://www.cos.ucf.edu/politicalscience

E-mail: politics@ucf.edu
Chair: 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)
   A. Communication Foundations
      - Select ENC 1101 & ENC 1102: 6 hrs
      - Prefer SPC 1600: 3 hrs
   B. Cultural and Historical Foundations
      - Prefer AMH 1010: 3 hrs
      - Select from GEP B.2 list: 3 hrs
      - Prefer AMH 2020: 3 hrs
   C. Mathematical Foundations
      - Prefer MGF 1106 (may substitute a higher level math): 3 hrs
      - Prefer STA 2014C or STA 1060C: 3 hrs
   D. Social Foundations
      - Select POS 2041: 3 hrs
      - Select from GEP D.2 list: 3 hrs
   E. Science Foundations
      - POS 3703: 6 hrs

2. Common Program Prerequisites (3 hrs)
   - POS 2041: American National Government
   - POS 3703: Scope & Methods of Pol Sci
   *See Transfer Notes for possible substitutes

3. Core (6 hrs)
   - POS 2041: American National Government
   - POS 3703: Scope & Methods of Pol Sci

4. Upper Division Restricted Electives (30 hrs)
   Choose one of the following emphases

   Emphasis 1: American Politics and Policy
   - Five courses from area A: 15 hrs
   - Two courses from area B: 6 hrs
   - Two courses from area C: 6 hrs
   - One additional course from any area: 3 hrs

   Emphasis 2: International Relations-Comparative Politics
   - Two courses from area A: 6 hrs
   *Five courses from area B: 15 hrs
   - Two courses from area C: 6 hrs
   - One additional course from any area: 3 hrs
   *No more than two of the following courses may be considered part of area B credit: INR 4401, INR 4402, INR 4404.

   Emphasis 3: Prelaw
   Please see Political Science - Prelaw for the emphasis requirements.

   Emphasis 4: International Studies
   Please see Political Science - International Studies for the emphasis requirements.

   AREAS OF SPECIALIZATION
   A. American Politics and Policy
B. International Relations and Comparative Government

POS 3122 State Government & Public Policy
POS 3173 Southern Politics
POS 3182 Florida Politics
POS 3233 Public Opinion
POS 3285 Mass Media and Politics
POS 3285 Politics in Film
POS 3273 Voting and Elections
POS 3413 The American Presidency
POS 3424 Congress and the Legislative Process
POS 3443 Political Parties and Processes
POS 3463 Interest Groups
POS 3627 Cultural Pluralism and the Law
POS 4074 Latino Politics
POS 4142 Metropolitan Politics
POS 4204 Political Behavior
POS 4246 Political Socialization
POS 4284 Judicial Process and Politics
POS 4412 Presidential Campaigning
POS 4603 American Constitutional Law I
POS 4604 American Constitutional Law II
POS 4622 Politics and Civil Rights
POS 4742 Geographic Information Systems for the Political Scientist

CPO 4034 Sustainability
CPO 4203 Urban Environmental Policy
CPO 4209 Environmental Politics
CPO 3314 Minorities in American Politics
CPO 3325 Women and Political Behavior
CPO 4003 American Public Policy
CPO 4204 Sustainability
CPO 4233 Women and Public Policy
CPO 4742 GIS for the Political Scientist
CPO 4404 Education and Politics
CPO 4503 Government and Science
CPO 4602 Politics of Health
CPO 4744 Government and Business
CPO 4931 General Education Program

C. Political Theory

POT 4303 Comparative Politics
POT 4304 Politics of Western Europe
POT 3312 Canadian Studies
POT 3403 Politics of the Middle East
POT 3614 Politics of Eastern Europe
POT 4047 Politics of the NAFTA Region
POT 4062 Comparative Judicial Processes
POT 4074 Political Economy
POT 4011 Politics of the European Union
POT 4123 Government and Politics of Great Britain
POT 4303 Comparative Latin American Politics
POT 4445 Comparative Political Parties
POT 4553 Politics of Japan
POT 4641 Government and Politics of Russia
POT 4710 Women in Comparative Perspective
POT 4754 Comparative Political Institutions
POT 4784 Political & Economic Inequality in Comparative Perspective
GEO 3471 World Political Geography
IDS 3151 Global Perspectives
INR 2002 International Relations Theory & Practice
INR 3016 International Relations
INR 3250 Politics of Pan-Africanism
INR 3253 International Politics of Africa
INR 4011 Politics of Globalization
INR 4030 Diplomacy
INR 4035 International Political Economy
INR 4054 Global Politics of Energy
INR 4060 Causes of War
INR 4064 Changing Nature of War
INR 4074 Immigration Policy
INR 4075 Human Rights Policy
INR 4076 Global Drug Policy
INR 4085 Women, Gender, and Globalization
INR 4102 American Foreign Policy
INR 4104 Topics and Cases in American Foreign Policy
INR 4114 American Security Policy
INR 4115 Strategic Weapons and Arms Control
INR 4224 Contemporary International Politics of Asia
INR 4225 The Vietnam War
INR 4234 International Politics of Latin America
INR 4350 Global Environmental Politics
INR 4364 The Intelligence Community
INR 4394 Issues in International Public Policy
INR 4401 Coercion in International Politics
INR 4401 International Law I
INR 4402 International Law II
INR 4404 Space Law

5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in the major
- Computer Competency met by POS 3703
- Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements

(0-8 hrs)
 Admission: Met by graduation requirement
 Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives

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

Internship Program: Political Science

For students who excel, a limited number of internship may be available each semester for three to six hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

8. University Minimum Exit Requirements

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

Total Semester Hours Required: 120 hrs

Related Programs: Economics, History
Related Minors: Economics, History, Psychology, Sociology, Philosophy

Transfer Notes:
- Lower division 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 take prior to transferring to UCF:
- POS 2041 and POS 3703: Although state mandated CPP accept any six hours of introductory Political Science classes, both POS 2041 and POS 3703 are required in the major and still must be taken.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor.
### UCF Degree Programs

**POLITICAL SCIENCE (B.A.) - INTERNATIONAL STUDIES TRACK**

**College of Sciences**
Political Science Department, CNH 415, 407-823-2608
http://www.cos.ucf.edu/politicalscience

**E-mail: politics@ucf.edu**
Contact: 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

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
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</thead>
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<tr>
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<td>U S His 1492-1877</td>
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</tr>
<tr>
<td>ENC 1101</td>
<td>1101 Composition I</td>
<td>3</td>
</tr>
<tr>
<td>MGF 1106</td>
<td>req# 1C1-GEP</td>
<td>3</td>
</tr>
<tr>
<td>POS 2041</td>
<td>Amer National Gov't</td>
<td>3</td>
</tr>
<tr>
<td>PSY 2012</td>
<td>req# 1D2-GEP</td>
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</tr>
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</table>

**Spring**

<table>
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<th>Semester Hours</th>
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<tbody>
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<td>req# 4A-ResElec</td>
<td>3</td>
</tr>
<tr>
<td>POS 4603</td>
<td>req# 4A-ResElec</td>
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</tr>
<tr>
<td>POS 4604</td>
<td>req# 4A-ResElec</td>
<td>3</td>
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</table>

### 2. Common Program Prerequisites

**Fall**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>INR 2002</td>
<td>International Relations-Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>POS 2041</td>
<td>International Relations-Practice</td>
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### 3. Core Requirements

<table>
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<th>Course Code</th>
<th>Course Title</th>
<th>Semester Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>INR 202</td>
<td>International Relations-Theory and Practice</td>
<td>3</td>
</tr>
<tr>
<td>POS 2041</td>
<td>American National Government</td>
<td>3</td>
</tr>
<tr>
<td>ECO 2005</td>
<td>Principles of Macroeconomics</td>
<td>3</td>
</tr>
<tr>
<td>GEO 3471</td>
<td>Principles of Geography</td>
<td>3</td>
</tr>
</tbody>
</table>

### 4. Restricted Electives

Note: Students must meet all prerequisites before taking these classes.

#### Regional

- CPO 3034 Politics of Developing Areas
- 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 4101 Politics of European Union
- CPO 4123 Government and Politics of Great Britain
- CPO 4303 Comparative Latin American Politics
- CPO 4653 Politics of Japan
- CPO 4643 Government and Politics of Russia
- CPO 4710 Women in Comparative Politics
- CPO 5334 Contemporary Politics of the Mayan Region
- POS 3553 Contemporary Revolution and Political Violence

#### Functional

- INR 3253 International Politics of Africa
- INR 4030 Diplomacy
- INR 4050 Global Environmental Politics
- INR 4054 Global Politics of Energy
- INR 4074 Immigration Policy
- INR 4075 Human Rights Policy
- INR 4076 Global Drug Policy
- INR 4304 Issues in International Public Policy
- INR 4364 The Intelligence Community
- INR 4714 Politics of International Trade Policy
- INR 4864 The Intelligence Community
- INR 4803 International Relations Theory
- INR 4855 International Political Economy
- INR 4858 Women, Gender, and Globalization
- INR 4872 American Foreign Policy
- INR 4904 Topics in Amer Foreign Policy
- INR 4914 American Security Policy
- INR 4915 Strategic Weapons and Arms Control
- INR 5224 Contemporary International Politics of Asia
- INR 4923 International Politics of Latin America
- INR 4934 Issues in International Public Policy
- INR 4935 Coercion in International Politics
- INR 4951 International Environmental Law
- INR 4941 International Law I
- INR 4942 International Law II
- INR 4944 Space Law
- INR 4950 International Organizations
- INR 4941 Internship (a maximum of 3 hours)
- PUP 4503 Government and Science
- PUP 4510 Space Policy

Other courses may be substituted with the chair’s approval.

#### 5. Required minor

- None
- Select from the following: Asian Studies, French, German, International Business (Business majors only), Italian, Latin American Studies, Middle East 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
- Before applying to graduate, the CLAST must be completely satisfied.

#### 7. Foreign Language Requirements

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to four semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

#### 8. Electives

Select primarily from upper level courses, with departmental advisor 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
A. Communication Foundations
1. UCF General Education Program (36 hrs)

Courses designated in 1 (General Education Program) and 2

Departmental Residency Requirement consists of at least 15

Students should consult with a departmental advisor

Co-op or internship credit cannot be used in this major without

Students who change degree programs and select this major

Degree Requirements

While no specific major is prescribed for admission to law school, many prelaw students elect to major in political science. These individuals usually choose the prelaw emphasis within the political science major.

Prelaw students are encouraged to work closely with a prelaw advisor in planning their programs. By judicious use of electives, students build a firm foundation for law school entry and acquire a broad training which can result in career options upon graduation. For further information, consult one of the Department’s prelaw advisors or the College of Arts and Sciences Prelaw Advisor.

The following represent a suggested curriculum which both meets the requirements for a Political Science Degree while preparing you for professional school.

Admission Requirements

POLITICAL SCIENCE - PRELAW TRACK (B.A.)

Political Science Department, CNH 415, 407-823-2608
http://www.cos.ucf.edu/politicalscience
E-mail: politics@ucf.edu
Contact: R. Handberg, 407-823-2608

While no specific major is prescribed for admission to law school, many prelaw students elect to major in political science. These individuals usually choose the prelaw emphasis within the political science major.

Prelaw students are encouraged to work closely with a prelaw advisor in planning their programs. By judicious use of electives, students build a firm foundation for law school entry and acquire a broad training which can result in career options upon graduation. For further information, consult one of the Department’s prelaw advisors or the College of Arts and Sciences Prelaw Advisor.

The following represent a suggested curriculum which both meets the requirements for a Political Science Degree while preparing you for professional school.

Admission Requirements

None

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Co-op or internship credit cannot be used in this major without prior departmental approval.

Students should consult with a departmental advisor.

Departmental Residency Requirement consists of at least 15 semester hours of regularly scheduled courses taken from the UCF Department of Political Science.

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

1. UCF General Education Program (36 hrs)

A. Communication Foundations
Select ENC 1101, ENC 1102 6 hrs
Select SPC 1600 3 hrs

B. Cultural and Historical Foundations
Prefer AMH 2010 3 hrs
Prefer AMH 2020 3 hrs

Select from GEP B.2 list 3 hrs

C. Mathematical Foundations
Select MGF 1106 (may substitute a higher level math) 3 hrs
Select STA 2014C or STA 1060C 3 hrs

D. Social Foundations
Select POS 2041 American National Gvt 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 Gvt GEP

3. Core

POS 2041 American National Government
POS 3703 Scope & Methods of Pol Sci

4. Upper Division Restricted Electives (30 hrs)

POS 4284 Judicial Process and Politics 3 hrs

5. Departmental Exit Requirements

Maintain a minimum GPA of 2.0 in the major

Computer Competency met by POS 3703

Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives (variable)

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

Some suggested electives include:

ACG 2021 Principles of Financial Accounting
ACG 2071 Principles of Managerial Accounting
BUL 3130 Legal and Ethical Env't of Business
PLA 3104 Legal Research
PLA 3155 Legal Writing
PHI 2101 Critical Thinking
MFF 3302 Logic and Proof in Mathematics
ENC 3241 Writing for the Technical Professional
ENC 3250 Professional Writing
LIN 4105 History of the English Language

Internship Program: Political Science

For students who excel, a limited number of internship may be available each semester for three to six hours of credit. Under the Internship Director, the student is typically placed in an office of local, state, or national government, a law office, or campaign headquarters.

8. University Minimum Exit Requirements

A 2.0 UCF GPA

60 semester hours earned after CLEP awarded

48 semester hours of upper division credit completed

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

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

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

Total Semester Hours Required 120 hrs

Related Programs: Economics, History, Philosophy

Related Minors: Economics, History, English, Philosophy

Transfer Notes:

Lower division 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*: Although state mandated CPP
UCF Degree Programs

accept any six hours of introductory Political Science classes, both POS 2041 and POS 3703 are required in the major and still must be taken.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year
Fall
AMH 2020 U S His 1877-1945 3
ENG 1101 Composition I 3
ENG 1102 Composition II 3
MGF 1106 req* 1C1-1GEP 3
PSY 2012* req* 1D2-GEP 3

Spring
PSY 3951 will not fulfill this requirement without prior approval.

Sophomore Year
Fall
BSC 1005* req* 1E2-GEP 3
POS 2414 Amer National Govt 3
PSY 2012* req* 1D2-GEP 3

Spring
BSC 2010C (If additional Biology courses are planned)
PSC 1121* req* 1E1-GEP 3

Junior Year
Fall
POS 2041* req* 4.1-ResEle 3
COP 3103* req* 4.1-ResEle 3

Spring
PSY 3122* req* 4.2A-RE 3

Senior Year
Fall
POS 3223* req* 4.2A-RE 3

Spring
PSY 3905, PSY 4906, PSY 4912: INP 3141C, INP 3604, INP 3951, PSY 3905, PSY 4906, PSY 4912

PSYCHOLOGY (B.S.)
College of Sciences
Psychology Department, PSY 301, 407-823-2216
http://www.psych.ucf.edu/
E-mail: psychology@ucf.edu
Contact: Psychology Advising Center, PSY 250, 407-823-2219; R. Dipboye, 407-823-2216

Admission Requirements
none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 21 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Psychology Department
- Students must earn at least a “C” (2.0) in each course counted toward the core requirements, restricted electives, and diversity courses
- Co-op or internship credit cannot be used in this major without prior approval
- Students should consult with the Department Director of Undergraduate Advising, prior to applying for graduation (before registration for the final term).
- Graduating seniors should complete the senior exit survey
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

Honors in Psychology:
Additional Requirements (6 hrs)
- The Honors in Psychology is available to majors who show outstanding scholarship and promise in psychology
- Application and admission through the department
- Fulfill University requirements for Honors in the Major
- Have a Psychology GPA above 3.5, based on at least 11 credits, including PSY 3213C. No grades can be below a “B” (3.0)
- Have an overall UCF GPA above 3.2

- PSY 4903H Directed Honors Readings 3 hrs
- PSY 4970H Undergraduate Honors Thesis 3 hrs

1. UCF General Education Program (36 hrs)
   (Note: Certain courses may be selected in the GEP for this major bringing the total GEP hours to more than 36)
   A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations
      1. Prefer MGF 1106 (may substitute a more advanced math) 3 hrs
      2. Select STA 2023 or STA 2014C 3 hrs
   D. Social Foundations
      1. Select one of the listed choices 3 hrs
      2. Select PSY 2012 3 hrs
   E. Science Foundations
      1. Select one of the listed choices 3 hrs
      2. Select BSC 1005 (or BSC 2010C if additional Biology courses are planned)
   *See Transfer Notes for possible substitutions

2. Common Program Prerequisites (3 hrs)
   BSC 1005* Biological Principles or BSC 2010C (If additional Biology courses are planned)
   PSY 2012* General Psychology
   DEP 2004* Developmental Psychology
   STA 2023* Statistical Methods I (or STA 2014C)
   *See Transfer Notes for possible substitutes

3. Core requirements (15 hrs)
   BSC 1005* Biological Principles (or BSC 2010C) GEP
   PSY 2012* General Psychology
   STA 2023* Statistical Methods I (or STA 2014C) GEP
   PSY 3024* Psychological Methods in Psychology 4 hrs
   PSY 3213C Research Methods in Psychology 5 hrs
   PSY 3002 Physiological Psychology 3 hrs
   PSY 4604 History and Systems of Psychology 3 hrs

4. Restricted Electives (27-32 hrs)
   A. Experimental. Select two of the following: 6-8 hrs
      EXP 3404 Basic Learning Processes
      EXP 3404C Perception
      EXP 3604C Cognitive Psychology
      LIN 3703 Psychology of Oral Communication
      PSY 4215C Advanced Research Methods in Psychology
   B. Personality/Social. Select one of the following: 3 hrs
      PPE 3003 Personality Theories
      SOP 3004 Social Psychology
   C. Developmental. Select one of the following: 3 hrs
      DEP 2004 Developmental Psychology
      DEP 3002 Psychology of Exceptional Children
      DEP 3464 Psychology of Aging
   D. Diversity. Select one of the following: 3 hrs
      CLP 3184 Women's Mental Health
      SOP 3742 Psych of Women
      SOP 3723 Cross Cultural Psychology
      SOP 3724 Psychology of Racial Prejudice
      SOP 3784 Psychology of Diversity
   E. Applied. Select one of the following courses: 3 hrs
      CLP 3302 Clinical Psychology
      EXP 3250 Principles of Human Factors Psychology
      INP 3004 Industrial/Organizational Psychology
   F. Psychology Elective. Select three additional courses taught by the Psychology department 9-12 hrs
      Note: INP 3141C, INP 3951, PSY 3905, PSY 4906, PSY 4912 will not fulfill this requirement.
      PSY 3951 will not fulfill this requirement without prior approval.

5. Science Electives
   Select two of the following from outside Psychology (See course listing for prerequisites) (6-8 hrs)
   - AST 2002 Astronomy (satisfies GEP)
   - ANT 2511 The Human Species
   - PSC 1121 Physical Science (satisfies GEP)
   - PHY 2043C College Physics I (satisfies GEP)
   - CHM 1020 Concepts in Chemistry (satisfies GEP)
   - COP 3223 Introduction to Programming with C
   - COP 3502C Computer Science I
   - COP 3503C Computer Science II
   - ENC 3241 Writing for the Technical Professional
   - ENC 3211 Theory and Practice of Technical Writing
6. Departmental Exit Requirements
- Earn a grade of “C” (2.0) or better in each course in the core requirements, restricted electives and science elective.
- Maintain a minimum overall psychology GPA of 2.0.
- Computer Competency met by PSY 3213C
- Before applying to graduate, the CLAST must be completely satisfied.

7. Foreign Language Requirements  (0-8 hrs)
Admission: Met by graduation requirement.
Graduation: Proficiency equivalent to one year of college instruction in either a foreign language or American Sign Language.
Standardized examinations may be used to meet the requirement.

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

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

Total Semester Hours Required  120 hrs

Related Programs: Sociology, Anthropology, Statistics, Criminal Justice
Related Minors: Psychology, Sociology, Anthropology, Math, Statistics

Transfer Notes:
- Lower division 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 or BSC 2010C: any lower level BSC course or ZOO X010. However, BSC 2010C is a prerequisite for all subsequent Biology courses and thus may need to be taken in order to qualify for other Biology courses used as science electives for the BS degree in psychology.
- Although CPP permits any lower level STA course, STA 2023 or STA 2014C is a prerequisite for subsequent Psychology courses and will need to be taken for the major.
- DEP 2004: any lower level psychology course. However, a DEP course must be taken to satisfy the restricted elective 4c.

Suggested Plan of Study:
One of numerous possible plans of study; see program description for all requirements. Courses with an asterisk (*) may be replaced by electives in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year
- Fall: PHI 2010* req1 B3-GEP 3, ENC 1101 Composition I 3, MGF 1101* req1 C1-GEP 3, PSC 1211* req1 E2-GEP 3, PSY 2012 General Psychology 3
- Spring: BSC 2005 Biological Principles* 3, ENC 1102 Composition II 3, POS 2041* req1 D1-GEP 3, SPC 101P* req1 A3-GEP 3, STA 2023* Statistical Methods I 3

Sophomore Year
- Fall: DEP 2004* req1 B1-GEP 3, ENC 1101 Composition I 3, MGF 1101* req1 C1-GEP 3, PSC 1211* req1 E2-GEP 3, PSY 2012 General Psychology 3
- Spring: BSC 2005 Biological Principles* 3, ENC 1102 Composition II 3, POS 2041* req1 D1-GEP 3, SPC 101P* req1 A3-GEP 3, STA 2023* Statistical Methods I 3

Junior Year
- Fall: STA 2023* req4 ResElect 4, SPA 2613* req1 Lang/Elect 4, AST 2002* Astronomy 3, Elective* Check restrictions 3
- Spring: STA 4163 Statistical Methods II 3, SPA 2612* req1 Lang/Elect 4, Elective* Check restrictions 3, Elective* Check restrictions 3

Senior Year
- Fall: STA 4102 Computer Process of Stat Data 3, STA 3024* req4 ResElect 4, Elective* Check restrictions 3

PUBLIC ADMINISTRATION (B.A., B.S.)
College of Health and Public Affairs
HPA2 238, 407-823-2604
http://www.cohpa.ucf.edu/pubadm/
Chair: Dr. Mary Ann Feldheim;
Undergraduate Coordinator: Robert Morin

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 on a regular basis.
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College and should usually be completed in the first 60 hours.
- Students must earn at least a “C” (2.0) in each course accepted as a Common Program Prerequisite and Core Requirement (see sections 2 and 3 below).
- A transfer course will be accepted with a grade lower than a “C” (2.0).
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours.

1. UCF General Education Program  (36 hrs)
A. Communication Foundations  9 hrs
B. Cultural Historical Foundations  9 hrs
C. Mathematical Foundations  6 hrs
1. MAC 1105 or MGF 1106  6 hrs
2. Select CGS 1060C  6 hrs
D. Social Foundations (nine hours required for major)  6 hrs
1. Select PDS 2041  3 hrs
2. PSY 2012, SYG 2000 or ANT 2000  3 hrs
E. Science Foundations  6 hrs

2. Common Program Prerequisites  (3 hrs)
CGS 1060C Intro to Computer Science GEP
POS 2041 American National Government GEP
ECO 2013 Principles of Macroeconomics  3 hrs

3. Core Requirements  (18 hrs)
PAD 3003 Public Admin. in American Society  3 hrs
PAD 4034 Administration of Public Policy  3 hrs
PAD 4104 Administrative Theory  3 hrs
PAD 4204 Fiscal Management  3 hrs
PAD 4414 Public Personnel Administration  3 hrs
PAD 4720 Survey Research in Public Administration  3 hrs

4. Upper Division Restricted Electives  (39 hrs)
Public Administration electives are required as follows:
- Double Majors, those who complete a PAD major, and those of...
**UCF Degree Programs**

**RADIO-TELEVISION (B.A.)**

**College of Sciences**

**Nicholson School of Communication**

**COM 242, 407-823-2878**

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

**Contact:** Dr. W. Joe Hall

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**Admission Requirements**

**Limited Access**

- Students should apply to become Radio-Television majors only after completing all requirements for admission. Deadlines are: October 1 to be admitted the next Spring term February 1 to be admitted the next Summer term July 1 to be admitted the next Fall term

- Attain an overall minimum 2.25/4.00 GPA based on a minimum of 30 credit hours of college work. Note: meeting the minimum GPA does not guarantee admission since students are admitted on a space available basis. The GPA cut-off varies each term with the quality of applicants, and during previous years, ranged upward from a minimum of 2.9.

- Meet a grammar proficiency standard ("B" grades or better in ENC 1101 and ENC 1102 or pass the grammar proficiency exam.)

- Receive a positive evaluation of other factors specified by the School.

**Degree Requirements**

- Students who change degree programs (other than from Radio/TV Pending) and select this major must adopt the most current catalog.

- Students may complete an internship off campus in a professional broadcast, production, or corporate operation with advisor’s approval

- Internship credit may be used in this major pending departmental permission

- Co-op credit may be used in this major pending approval from an RTV advisor

- Students should consult with a School advisor

- School Residency Requirement consists of at least 24 semester hours of regularly scheduled 3000-4000 level courses taken from the Nicholson School of Communication.

- Of the 120 hours required for graduation, 80 hours must be taken outside of the Nicholson School of Communication.

- Of these 80 hours, 65 must be taken in the liberal arts (i.e. within the College of Arts & Humanities or the College of Science).

- To ensure completion within 120 hours and to comply with the 80 hour rule, no more than 40 (or 43 if a GEP speech class was taken at UCF) of the 120 hours may be taken within the Nicholson School of Communication.

- Radio TV majors must select their required minor from outside the School of Communication to remain below the 40 credit hour school maximum.

- Students seeking to change tracks once accepted into the major,
must re-apply to the RTV major under the new, desired track

- All students are required to pay a fee for equipment insurance
- A maximum of 3 credit hours of internship may be earned in one semester. Internship credit, plus all other hours taken within the school, must not exceed 40 hours.
- A maximum of 6 credit hours of internship may be earned within the 120 credit hours required for graduation. Summer internship are available during “C” term only.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations
     - Select ENC 1101 & ENC 1102
   - B. Cultural and Historical Foundations
     - Select SPC 1000 or SPC 1016
   - C. Mathematical Foundations
     - Prefer MGF 1106 (may substitute a higher level math)
   - D. Social Foundations
     - Select CGS 2100C
   - E. Science Foundations
     - Select CGS 1016

2. Common Program Prerequisites (0 hrs)
   - Select one course
     - SPC 1016 3 hrs
     - SPC 1600 3 hrs

3. Core requirements (all areas) (21 hrs)
   - Select 18 hours from the following:
     - MMC 3420 Mass Media Research Meth 3 hrs
     - RTV 4403 Elec Media, Tech, and Society 3 hrs
     - MMC 3240 Mass Media Research Meth 3 hrs

4. Specialization: Select one area

4.1 Production (18 hrs)
   - Select 18 hours from the following:
     - RTV 3210C Audio Production I
     - RTV 3228C Studio Television Production
     - RTV 3233C Lighting for Video
     - RTV 3260C Single Camera Video Prodn & Edit
     - RTV 3263C Advanced Video Post-Production
     - RTV 3283C Production of Int. Multimedia
     - RTV 3402L Production
     - RTV 4211C Audio Production II
     - RTV 4280C Webcasting I
     - RTV 4281C Webcasting II
     - RTV 4208C Television Directing
     - RTV 4271C Radio Production & Programming
     - RTV 4941 Internship

4.2 Broadcast Journalism (22 hrs)
   - Complete all the following courses:
     - RTV 3260C Single Camera Video Prodn & Edit
     - RTV 3301C Electronic Journalism I
     - RTV 3304C Electronic Journalism II
     - RTV 4202C Television News
     - MMC 4602 Contemporary Media Issues
     - JOU 3004 History of American Journalism
     - RTV 3234C Broadcast Announcing and Performance
     - RTV 4941 Internship (3 hrs max)
     - RTV 4700 Regulation of Broadcasting
     - RTV 4906 Independent Studies (3 hrs max)
     - RTV 4202C Advanced Television News

4.3 Broadcast Generalist (18 hrs)
   - Complete 12 hours from the following:
     - RTV 3234C Broadcast Announcing & Performance
     - RTV 4271C Radio Production & Programming
     - RTV 4700 Regulation of Broadcasting
     - RTV 4800 Broadcast Management
     - ADV 4103 Radio-TV Advertising
     - CMC 4240 Corporate/Institutional Video
     - COM 3330 Computer Mediated Comm.
     - MMC 4263 New Media Technologies
   - Select 6 hours from the following:

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 UCF Radio/TV courses used to satisfy the major.
   - Computer competency met by CGS 2100C or departmental assessment.
   - Before applying to graduate, the CLAST must be completely satisfied.

7. Foreign Language Requirements (0-8 hrs)
   - Admission: Met by graduation requirement
   - Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations or foreign languages may be used to meet the requirement.

8. Electives (variable)
   - Select primarily from upper level courses, with school advisor's approval. Must be from outside of the school in order to not exceed the 40 credit hour cap. The majority of electives should be taken in the Liberal Arts to comply with the 65 hour Liberal Arts requirement.

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

Total Semester Hours Required: 120 hrs

Related Programs: Advertising/Public Relations, Animation, Digital Media, Journalism, Film, Theatre
Related Minors: Digital Media, Film, Marketing, Theatre
Transfer Notes:
- Lower division courses taken at community colleges do not substitute for Upper Division courses
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

**RADIOLOGIC SCIENCES (B.S.)**

**College of Health and Public Affairs**

**HPA2 210, 407-823-2747**

[http://www.cooha.ucf.edu/health.pro/radbs.cfm](http://www.cooha.ucf.edu/health.pro/radbs.cfm)

Undergraduate Program Director: Thomas Edwards, E-mail: tedwards@mail.ucf.edu

**Admission Requirements**

- Acceptance to the university does not necessarily constitute admission to the upper division Radiologic Sciences Program
- Separate application to the limited access program must be made directly to the program on or before March 1 of the year admission is sought
- UCF application must be submitted by the program deadline of March 1. Acceptance to UCF is necessary before acceptance to the program can occur
- This limited access program is work-intensive and courses include clinical practice in a variety of settings. Due to this it is strongly recommended that students be at least one-year post high school prior to applying to the program. Students with concerns or questions should contact the program to schedule an appointment with an advisor
- Criminal history information (background check) must be submit-
UCF Degree Programs

ted 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. 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). Applicants are considered for admission based on ranking by overall GPA.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog
- Students should complete the General Education Program, Foreign Language Admissions, and the Common Program Prerequisites Requirements before transferring within the Florida Public University/Community College System
- Students should consult with a departmental advisor
- The courses designated in sections 1 and 2 below may be taken at a Florida Community College, and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program
- UCF Residency Requirement for Radiography: 33 hours

1. UCF General Education Program (36+2 hrs)
   A. Communication Foundations 9 hrs
      1. UCF General Education Program (36+2 hrs)
         "A minimum overall GPA of 2.5 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program"
         UCF Residency Requirement for Radiography: 33 hours

   B. Cultural Historical Foundations 9 hrs
   C. Mathematical Foundations 6 hrs
      Select MAC 1105*
      Select CGS 1060C

   D. Social Foundations 6 hrs
   E. Science Foundations 6 hrs
      Select BSC 2010C
      Select PHY 2053C*

2. Common Program Prerequisites (12 hrs)
   CGS 1106C  Introduction to Computer Science  3 hrs
   PCB 3703C*  Human Physiology  4 hrs
   PHY 2053C  College Physics I  GEP  4 hrs
   PHY 2054C  College Physics II  4 hrs
   ZOO 3733C*  Human Anatomy  4 hrs
   MAC 1105*  College Algebra  GEP  2 hrs

3. Core Requirements (77 hrs)

Junior Level

- RTE 3000  Introduction to Radiologic Sciences  3 hrs
- RTE 3111C  Introduction to Patient Care  2 hrs
- RTE 3503C  Radiographic Procedures I  3 hrs
- RTE 3116  Advanced Patient Care  3 hrs
- RTE 3418C  Principles of Radiographic Exposure I  3 hrs
- RTE 3530  ST: Clinical Education I  2 hrs
- RTE 3531C  Radiographic Procedures II  3 hrs
- RTE 3457C  Principles of Radiographic Exposure II  3 hrs
- RTE 3614  Physics of Image Production  2 hrs
- RTE 3308  Medical Physics  3 hrs
- STA 2023  Statistical Methods I  3 hrs
- HSC 4550  Pathophysiologic Mechanisms  3 hrs
- RTE 3930  ST: Clinical Education II  4 hrs

Senior Level

- RTE 4563  Special Radiographic Procedures  2 hrs
- RTE 4782  Pathophysiology  2 hrs
- RTE 4932  ST: Clinical Education III  5 hrs
- RTE 4573  Advanced Imaging Modalities  3 hrs
- RTE 4574  Computed Tomography Protocols or  3 hrs
- RTE 4579  Magnet Resonance Imaging Protocols  1 hr
- RTE 4933  ST: Clinical Education IV  6 hrs
- RTE 4385  Radiobiology  1 hr
- RTE 4932  ST: Clinical Education V - A  2 hrs
- RTE 4932  ST: Clinical Education V - B  4 hrs
- RTE 4473  Quality Improvement  3 hrs
- RTE 4762  Anatomy for the Medical Imager  3 hrs
- RTE 4206  Leadership in Radiologic Sciences  3 hrs
- RTE 4932  ST: Advanced Clinical Practicum  4 hrs

5. Program Exit Requirements (126 hrs)

   A minimum overall GPA of 2.50 and a minimum grade of "C" (2.0) in prerequisite and major courses is required for admission to, graduation in, and graduation from the Radiologic Sciences Program. The program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Graduates are eligible to apply for admission to the Radiography certification exam administered by the American Registry of Radiologic Technologists (ARRT).

6. Electives none

7. Foreign Language Requirements (0-8 hrs)
   Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

8. University Minimum Exit Requirements

   - An overall GPA of 2.5
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - 25% of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: (126 hrs)

Related Programs: Cardiopulmonary Sciences, Nursing,
Health Services Administration

Transfer Notes:

Prerequisite Requirements

The prerequisite requirements for the following courses are listed below:

- PHY 2053C: PR: MAC 1105 and MAC 1114 or equivalent or C.I.
- PCB 3703C: PR: BSC 2010C, CHM 1032 or CHM 2045C.

ZOO 3733C: PR: BSC 2010C or equivalent.

Credit by Examination

Credit by Exam for clinical education courses will be awarded to ARRT certified Radiographers who demonstrate advanced knowledge and competencies beyond the level required for entry into the profession. The knowledge required to perform advanced competencies may be demonstrated by registration in multiple disciplines, registration in an advanced level of certification or completion of the Advanced Clinical Practicum course. Students who successfully complete the requirements for credit by exam will be awarded a grade of "S" for the clinical education courses required in their program of study.

Credit by exam for didactic courses will be awarded according to the process described in the UCF catalog. Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

Community College Equivalents:

- Human Anatomy and Physiology I and II (BSC X085C and X086C) or (BSC X085C and BSC 2045C) 8
- College Algebra (MAC 1105) or (MAC 1115) 3
- College Physics I (PHY 2053C) 4
- College Physics II (PHY 2054C) 4
- Introduction to Computer Science (CGS 1060C) or (CGS X530, CGS X570, CIS X400, CIS X000, CGS X000, CGS X061, CGS X361 (no longer offered), CGS X100) 3

Tentative Course Schedule for Entering Freshmen

RADIOLOGIC SCIENCES

Freshman Year*

- Fall 13 hrs Spring 16 hrs
  ENC 1101  3 ENC 1102  3
  CGS 1000C   3
  MAC 1105   3
  CHM 1032   4
  ECO 2013 or POS 2041 or 3
  ECO 2023 3
  MUL 2010 or THE 2000 or 3
  REL 2300 or PHI 2010 or 3
  ARH 2050 or FIL 2400 3

Sophomore Year

- Fall 14 hrs Spring 14 hrs
  PHY 2053C  4
  ZOO 3733C   3
  EUH 2000 or HUM 2210 3
  or AMH 2010 3
  or PHY 2054C   4
  EU2001 or 3
  or HUM 2230 or AMH 2020 3


**REAL ESTATE (B.S.B.A.)**

**College of Business Administration**

BA 210, 407-823-2184

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

**Admissions Requirements**

- Completion of the UCF General Education Program or an AA degree from a Florida public community college
- See Common Program Prerequisites

**Degree Requirements**

1. **UCF General Education Program** (36 hrs)
   
   - **Communications Foundations** 9 hrs
   - **Cultural and Historical Foundations** 9 hrs
   - **Mathematical Foundations**
     
     Select MAC 1105 College Algebra 3 hrs
     Select CGS 2100C Computer Fund. For Business 3 hrs
   - **Social Foundations**
     
     Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
   - **Science Foundations** 6 hrs

2. **Common Program Prerequisites** (18-21 hrs)
   
   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 Principles of Macroeconomics 3 hrs
   - ECO 2023 Principles of 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 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. **Required for All Business Majors** (36 hrs)

   First or subsequent semester in the College of Business Administration:
   
   - GEB 3031 Cornerstone (Required in 1st or 2nd semester) 4 hrs
   - GEB 3356 Introduction to International Business 4 hrs
   - BUL 3130 Legal & Ethical Environments of Business 4 hrs
   - ECO 3411 Quantitative Business Tools II 4 hrs
   - FIN 3403 Business Finance 4 hrs
   - MAN 3025 Management of Organizations 4 hrs

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

**Transfer Notes**

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.

**Common Program Prerequisites for the State University System**

- 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

**RADIOLOGIC SCIENCES (B.S.)**

**AS to BS TRACK**

**Note:** For detailed information about this program, see description in the Articulated AS to BS Program section.

**REAL ESTATE (B.S.B.A.)**

**College of Business Administration**

BA 210, 407-823-2184

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

**Admissions Requirements**

- Completion of the UCF General Education Program or an AA degree from a Florida public community college
- See Common Program Prerequisites

**Degree Requirements**

1. **UCF General Education Program** (36 hrs)
   
   - A. Communications Foundations 9 hrs
   - B. Cultural and Historical Foundations 9 hrs
   - C. Mathematical Foundations
     
     Select MAC 1105 College Algebra 3 hrs
     Select CGS 2100C Computer Fund. For Business 3 hrs
   - D. Social Foundations
     
     Select one: PSY 2012, SYG 2000, ANT 2000 3 hrs
   - E. Science Foundations 6 hrs

2. **Common Program Prerequisites** (18-21 hrs)

   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 Principles of Macroeconomics 3 hrs
   - ECO 2023 Principles of 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 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. **Required for All Business Majors** (36 hrs)

   First or subsequent semester in the College of Business Administration:
   
   - GEB 3031 Cornerstone (Required in 1st or 2nd semester) 4 hrs
   - GEB 3356 Introduction to International Business 4 hrs
   - BUL 3130 Legal & Ethical Environments of Business 4 hrs
   - ECO 3411 Quantitative Business Tools II 4 hrs
   - FIN 3403 Business Finance 4 hrs
   - MAN 3025 Management of Organizations 4 hrs

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

2. **Common Program Prerequisites (18-21 hrs)**

   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 Principles of Macroeconomics 3 hrs
   - ECO 2023 Principles of 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 2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. **Required for All Business Majors** (36 hrs)

   First or subsequent semester in the College of Business Administration:
   
   - GEB 3031 Cornerstone (Required in 1st or 2nd semester) 4 hrs
   - GEB 3356 Introduction to International Business 4 hrs
   - BUL 3130 Legal & Ethical Environments of Business 4 hrs
   - ECO 3411 Quantitative Business Tools II 4 hrs
   - FIN 3403 Business Finance 4 hrs
   - MAN 3025 Management of Organizations 4 hrs

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

**Transfer Notes**

- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.

**Common Program Prerequisites for the State University System**

- 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
**UCF Degree Programs**

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.
- 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 - REAL ESTATE

**Freshman**

1st Term
- ENC 1101 3 hrs
- Cult-Hist I 3 hrs
- MAC 1105 3 hrs
- Elective*** 3 hrs

2nd Term
- ENC 1102 3 hrs
- Cult-Hist II 3 hrs
- Elective*** 3 hrs

Must complete nine hours in a summer semester.

**Sophomore**

1st Term
- ECO 2023 3 hrs
- ACG 2021 3 hrs
- Science 3 hrs
- Elective*** 3 hrs

2nd Term
- ECO 2071 3 hrs
- Science 3 hrs
- Elective*** 3 hrs

**Junior**

1st Term
- GEB 3256 4 hrs
- MAR 3023 4 hrs
- FIN 3411 4 hrs
- Elective*** 3 hrs

2nd Term
- GEB 3258 4 hrs
- MAR 3023 4 hrs
- FIN 3411 4 hrs
- Elective*** 3 hrs

**Senior**

1st Term
- MAN 4720 4 hrs
- REE Elective 3 hrs
- Elective*** 3 hrs

2nd Term
- MAN 4720 4 hrs
- REE Elective 3 hrs
- Elective*** 3 hrs

***General electives as required to reach 120 semester hours.

**RELIGIOUS STUDIES (B.A.)**

### College of Arts and Humanities

**Philosophy Department, CNH 411**


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

Contact: Claudia Schippert, 407-823-2273; Fax: 407-823-6658

**Admission Requirements**

- none

### Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Co-op or internship credit cannot be used in this major without prior approval by the chair.
- Students must earn at least a “C” (2.0) in each required course.
- Students should consult with a departmental advisor.
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Philosophy Department.
- Courses designated in 1 (General Ed Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

### 1. UCF General Education Program

- Communication Foundations: none
- Cultural and Historical Foundations
  - Select HUM 2210 Humanistic Tradition I 3 hrs
  - Select HUM 2230 Humanistic Tradition II 3 hrs
  - Select REL 2300 World Religions 3 hrs
- Mathematical Foundations
  - Prefer MGF 1106 Finite Mathematics 6 hrs
  - (May substitute a higher level math)
  - Prefer STA 1060C Statistics Using Excel 3 hrs
- Social Foundations 6 hrs
- E. Science Foundations 6 hrs

### 2. Common Program Prerequisites

- none

### 3. Core requirements

- **(24 hrs)**
  - a. Core
    - HUM 2210 Humanistic Traditions I GEP
    - HUM 2230 Humanistic Traditions II GEP
    - REL 2300 World Religions GEP
    - REL 4010 Senior Research Seminar 3 hrs
  - b. Foundations in the Study of Religion and the Humanities
    - Select three courses, at least two must be from (1)
      - (1) Religion
        - PHI 3700 Philosophy of Religion
        - REL 4110 Religion and the Arts
        - POT 4632 Religion and Politics
        - SYO 4200 Sociology of Religion
        - REL 3131 Religion in America
        - ANT 3241 Magic, Ritual, and Belief
      - (2) Humanities and Classics
        - HUM 3431 Ancient Civilizations
        - HUM 3435 Medieval Humanities
        - HUM 3255 Modern Humanities
        - HUM 3252 Contemporary Humanities
        - CLA 3850 Classical Mythology
        - CLA 3851 Comparative Mythology
  - c. Traditions: Religion in a Global World
    - 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
      - JST 3402 The Jewish People II
      - ANT 3245 Native American Religions
      - REL 3340 Buddhist Thought
  - d. Applications: Topics and Issues in the Study of Religion
    - Select two courses:
      - HUM 4554 Religious Quest and the Human Dilemma
      - HUM 4303 The Spiritual Ideal
      - PHI 3033 Philosophy, Religion, and the Environment
      - REL 3115 Religion, Spirituality, and Popular Music
      - REL 3111 Religion and Philosophy through Film
      - REL 3432 Roots of Western Mysticism

### 4. Upper division Restricted Electives

- **(9 hrs)**
  - Select three courses from the following list and/or the Core list above (if not being used to fulfill Core Requirements):
    - HUM 3320 Contemporary Multicultural Studies
    - HUM 4301 The Classical Ideal
    - PHI 4330 Performance Theory
    - 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
    - PHI 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 to Modernism into Judaism
    - JST 3701 History of the Holocaust
    - LIT 3751 Literature of the Holocaust
    - JST 3810 The Jewish National Movement and Roots of Zionism
    - ASH 3222 Islam and its Empires
    - ASH 3223 The Modern Middle East

**Note:** Relevant new or special topics courses in philosophy, humanities, or other relevant areas may be substituted for some required courses with prior approval by department advisor.
5. Honors in the Major
Students considering graduate school in Religious Studies are strongly encouraged to take Honors in the Major. Requirements are as follows:

Core and Elective Requirements (30 hrs)

- Same requirements as for regular majors

Honors Thesis (6 hrs)

- REL 4903H: Honors Directed Readings 3 hrs
- REL 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
- Maintain a UCF GPA of at least 3.2 and a Religious Studies GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

6. Departmental Exit Requirements (3 hrs)

- Either REL 4970H: Honors Thesis (3 hrs) or REL 4910 Senior Research Seminar (3 hrs).
- Maintain a UCF GPA of at least 3.2 and a Religious Studies GPA of at least 3.5
- Successful completion and oral defense of Honors thesis

7. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

Majors who are contemplating graduate school should complete two years of a foreign language, preferably one functional in their area of proposed graduate interest.

8. Electives

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 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 hrs

Related Programs: Philosophy, Humanities, Interdisciplinary Studies

Related Minors: Philosophy, Humanities, Judaic Studies, Religious Studies

Notes:

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

Suggested Plan of Study:

One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

UCF Degree Programs

RESTAURANT AND FOOD SERVICE MANAGEMENT (B.S.)
Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000
http://www.hospitality.ucf.edu

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
- MAC 1105 College Algebra 3 hrs
- STA 2023 Statistical Methods I 3 hrs
D. Social Foundations
- ECO 2100 Microeconomics (GEP) 3 hrs
- ECO 2200 Microeconomics (GEP) 3 hrs
- MAC 1105 College Algebra (GEP) 3 hrs

2. Common Program Prerequisites (3 hrs)

- HFT 1000 Introduction to Hospitality Management 3 hrs

3. Foundations

- CGS 2100C Computer Fundamentals of Business (GEP) 3 hrs
- ECO 2100 Microeconomics (GEP) 3 hrs
- ECO 2200 Microeconomics (GEP) 3 hrs

4. Hospitality Management Core (28 hrs)

- HFT 2403 Hospitality Financial Accounting 3 hrs
- HFT 2500 Hospitality Marketing 3 hrs
- HFT 2220 Hospitality Human Resources 3 hrs
- HFT 3444 Hospitality Information Systems 3 hrs
- HFT 3600 Legal Environment in Hospitality 3 hrs
- HFT 3431 Hospitality Managerial Accounting 3 hrs
- HFT 3540 Guest Services Management 3 hrs
- HFT 4402 Hospitality Industry Finance 3 hrs
- HFT 4286 Hospitality Communications 3 hrs
- HFT 3933 Distinguished Lectures in Hospitality Mgmt 1 hr

5. Internship (3 hrs)

- HFT 3940 Internship 1 hr
- HFT 4941 Internship 1 hr
- HFT 4944 Internship 1 hr

6. Restaurant Management Core (24 hrs)

- FSS 2211C Quantity Food Preparation 3 hrs
- HFT 3263 Restaurant Management 3 hrs
- HFT 4268 Case Studies in Restaurant Management 3 hrs
- FSS 3124 Supply and Procurement Management 3 hrs
- HFT 4266 Restaurant Brand Management 3 hrs
- HFT 4261 Restaurant Leadership Strategies and Tactics 3 hrs
- HFT 4861C Beverage Management 3 hrs
- HFT 4844 Sanitation in the Food Service Industry 3 hrs

7. Special College Requirements

- Final exams will be given during Exam Week only.
- Transfer students to this program must take a minimum of thirty (30) credit hours in Hospitality Management classes at UCF.
8. Restricted Electives  (15 hrs)
Choose any 5 courses from the list below for a total of 15 credit hours

- FSS 3232C: Intermediate Techniques of Food Production
- FSS 3286C: Catering and Banquet Organization
- HFT 3807: Multi-Unit Food Service Operations
- HFT 4645: Restaurant Real Estate, Site Selection and Modeling
- HFT 4425: Financial Analysis for Restaurant Managers
- HFT 3574: Foodservice Marketing, Advertising, and Promotion Management
- HFT 4269: Case Studies in Multi-Unit Restaurant Mgt
- HFT 3443: Hospitality Facilities, Planning and Design
- HFT 3654: Franchising in the Restaurant Industry
- HFT 4281: Restaurant Leadership and Tactics
- FSS 3008: Culture and Cuisine
- HFT 3610: Law and Restaurant Management
- HFT 3285: International Restaurant Corporation Management
- HFT 4284: Training and Employee Performance in the Food Service Industry
- HFT 3834: Topics in Restaurant & Foodservice Management
- FSS 4135: Corporate Contract & Managed Services Orgs
- HFT 4864: Anheuser-Busch Seminar in Quality Brewing and Fine Beer
- HFT 4866C: Exploring Wines of the World
- HFT 4453: Food, Beverage and Labor Cost Control
- HFT 3688: History of Wine and Culture
- HFT 4894: International Gastronomy
- HUN 3013: Nutrition in the Food Service Industry
- HFT 4865: Advanced Wine Mgmt

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

10. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 48 hours of upper division credit completed
- 30 semester hours of coursework completed in residency (last 30 hours) at UCF
- A maximum of 45 semester hours of extension, correspondence, CLEP, Credit by Exam, and Military credit permitted
- Completion of the General Education Program, the Gordon Rule, the CLAST, and 9 semester hours of Summer credit (if applicable).

11. Unrestricted Electives  (3-11 hrs)
As necessary to result in 120 total credit hours.

Total Semester Hours Required  120 hrs

Community/Junior College Transfer Notes
- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in UCF’s Rosen College of Hospitality Management.
- Florida Public Community College students are encouraged to complete general education requirements, prior to transferring to UCF.
- A minimum of 30 semester hours must be completed at UCF within the Rosen College of Hospitality Management.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.

Four Year Plan of Study for B.S. Restaurant and Food Service Management*
Plan your required nine summer credit hours into your course of study.

Freshman Year
Fall  15 Hrs  Spring  15 Hrs
- ENC 1101 - Eng Comp I  3 hrs  ENC 1102 - Eng Comp II  3 hrs
- Cul/Hist Found Sequence I  3 hrs  SPC 1600 - Fund Oral Comm  3 hrs
- CUS 210CC or STA 2023  3 hrs  Hist/Hist Found Sequence II  3 hrs
- HFT 1000 - Intro to Hosp Man  3 hrs  MAC 1105 - College Algebra  3 hrs
- PSY 2012, SYG 2000, or ANT 2000  3 hrs  FSS 2221C - Quant Food Prep  3 hrs

Sophomore Year
Fall  15 Hrs  Spring  15 Hrs
- Science Foundation I  3 hrs  Science Foundation II  3 hrs
- ECO 2013 or ECO 2023  3 hrs  Cul/Hist Foundation  3 hrs
- HFT 3263 - Restaurant Mgmt  3 hrs  FSS 3124 - Sup & Prod Mgmt  3 hrs
- HFT 2403 - Hosp Fin Acct  3 hrs  HFT 3444 - Hosp Info Systems  3 hrs
- HFT 2220 - Hosp Hum Res Mgmt  3 hrs  HFT 2500 - Hosp Marketing  3 hrs

Junior Year
Fall  14 Hrs  Spring  16 Hrs
- HFT 3540 - Guest Svc Mgmt  3 hrs  HFT 4266 - Rest Brand Mgmt  3 hrs
- HFT 3431 - Hospitality Mgr Act  3 hrs  HFT 4844 Sanitation in the FS Ind.  3 hrs
- HFT 2481 - Leader Strategies  3 hrs  HFT 4861C Beverage Mgmt  3 hrs
- HFT 3940 - Internship I  1 hr  HFT 4941 - Internship II  1 hr
- HFT 3933 - Dist Lect in Hosp  1 hr  HFT 3600 - Legal Environ in Hosp  3 hrs

Senior Year
Fall  15 Hrs  Spring  15 Hrs
- HFT 4286 Communications  3 hrs  HFT 4462 Finance  3 hrs
- Rest & F.S. Elective  3 hrs  Rest & F.S. Elective  3 hrs
- Rest & F.S. Elective  3 hrs  HFT 4281 - Leader Strategies  3 hrs
- HFT 4944 - Internship III  1 hr  Rest & F.S. Elective  3 hrs
- Unrestricted Electives  5 hrs  Unrestricted Elective  3 hrs

SCIENCE EDUCATION - BIOLOGY (B.S.)
College of Education
Department of Teaching and Learning Principles, ED 209
http://www.education.ucf.edu/
Program Coordinator: Dr. Aldrin Sweeney, ED 123L, 407-823-2561,
E-mail: asweeney@pegasus.cc.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university
- Have a minimum 2.5 overall GPA
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisites courses with a minimum letter grade of "C-" (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements
- Students should see an advisor prior to registering for classes
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.
- This is a state-approved, initial teacher preparation program designed in compliance with Florida Statutes and State Board of Education Rule 6A-5.066. Degree requirements are subject to change based on state mandates.

1. UCF General Education Program  (36+1 hrs)

2. Education Common Program Prerequisites  (9 hrs)

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.
3. Other Program Requirements (12 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 2130</td>
<td>Child &amp; Adolescent Development for Educators</td>
<td>3</td>
</tr>
<tr>
<td>BSC 201C</td>
<td>Biology I w/ Lab</td>
<td>GEP</td>
</tr>
<tr>
<td>BSC 201C</td>
<td>Biology II</td>
<td>4</td>
</tr>
<tr>
<td>CHM 2045C</td>
<td>Chemistry Fundamentals I</td>
<td>4</td>
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<tr>
<td>PSC 1121</td>
<td>Physical Science</td>
<td>GEP</td>
</tr>
<tr>
<td>PSC 1121L</td>
<td>Physical Science Lab</td>
<td>1</td>
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*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.*

4. Education Core Requirements (18 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>EDF 4467</td>
<td>Learning Theory and Assessment</td>
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<tr>
<td>EDF 4603</td>
<td>Analysis and Applications of Ethical, Legal, and</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>Safety Issues in Schools</td>
<td></td>
</tr>
<tr>
<td>EDG 4410</td>
<td>Teaching Strategies and Classroom Mgmt</td>
<td>3</td>
</tr>
<tr>
<td>EEX 4074</td>
<td>Teaching Exceptional Students in Sec Settings</td>
<td>3</td>
</tr>
<tr>
<td>RED 4043</td>
<td>Content Reading in Kindergarten thru Grade 12</td>
<td>3</td>
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<tr>
<td>TSL 4080</td>
<td>Theory and Practice of Teaching ESOL</td>
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</tr>
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</table>

5. Internship I Block (7 hrs)

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<td>ESE 3940</td>
<td>Internship I</td>
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6. Specialization Requirements (25 hrs)

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<tr>
<td>CHM 2205</td>
<td>Intro to Organic and Biochemistry</td>
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<tr>
<td>PCB 3063</td>
<td>Genetics</td>
<td>3</td>
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<td>PCB 2063L</td>
<td>Genetics Lab</td>
<td>1</td>
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<tr>
<td>PCB 3044</td>
<td>Ecology</td>
<td>3</td>
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<tr>
<td>PCB 3044L</td>
<td>Ecology Lab</td>
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<tr>
<td>MCB 3020C</td>
<td>Microbiology</td>
<td>5</td>
</tr>
<tr>
<td>SCE 4XXX</td>
<td>Programs in Teaching Science</td>
<td>3</td>
</tr>
<tr>
<td>PCB 3703C</td>
<td>Human Physiology or</td>
<td>4</td>
</tr>
<tr>
<td>ZOO 3733C</td>
<td>Human Anatomy</td>
<td></td>
</tr>
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</table>

At least 80% of all required biology courses and all methods courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.

7. Internship II Block (12 hrs)

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ESE 4943</td>
<td>Internship II</td>
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</tr>
<tr>
<td>ESE 4942</td>
<td>Internship II Secondary Seminar</td>
<td>1</td>
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</tbody>
</table>

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-5.066.

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.)

**UCF Degree Programs**

9. Departmental Exit Requirements

- Achieve a minimum 2.5 GPA in all courses within the major.
- Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
- Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements

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

11. Total Program Semester Hours Required: 120 hrs

Consult with your Education advisor and review your degree audit for more recent information.

12. Recommended Four Year Sequence of Courses

**Freshman Year**

<table>
<thead>
<tr>
<th>Fall (12 hrs)</th>
<th>Spring (16 hrs)</th>
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</thead>
<tbody>
<tr>
<td>EDF 2005 Introduction to Education 3</td>
<td>EDF 2701 Teaching Diverse Pop 3</td>
</tr>
<tr>
<td>ENC 1101 English Composition I 3</td>
<td>ENC 1102 English Composition II 3</td>
</tr>
<tr>
<td>MGF 1106 Finite Mathematics 3</td>
<td>PHI 2010 Intro to Philosophy 3</td>
</tr>
<tr>
<td>PSY 2012 General Psychology 3</td>
<td>ESE 4942 Intern II Sec Seminar 1</td>
</tr>
<tr>
<td>PCB 3703C Human Physiology 5</td>
<td>ESE 4943 Internship II 11</td>
</tr>
<tr>
<td>EDF 2130 Child and Adol Dev Ed* 3</td>
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</tr>
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</table>

**Sophomore Year**

<table>
<thead>
<tr>
<th>Fall (14 hrs)</th>
<th>Spring (15 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PCB 3703C Human Physiology 4</td>
<td>EDF 2130 Child and Adol Dev Ed* 3</td>
</tr>
<tr>
<td>ESE 4942 Intern II Sec Seminar 1</td>
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</tr>
<tr>
<td>PCB 3044L Ecology Lab 1</td>
<td></td>
</tr>
<tr>
<td>ESE 4943 Internship II 11</td>
<td></td>
</tr>
<tr>
<td>EDF 4467 Learning Theory &amp; Assessment 3</td>
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</tr>
<tr>
<td>EDF 2701 Teaching Diverse Pop 3</td>
<td>ESE 4942 Intern II Sec Seminar 1</td>
</tr>
<tr>
<td>EDF 2130 Child and Adol Dev Ed* 3</td>
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<tr>
<td>PCB 3044L Ecology Lab 1</td>
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<tr>
<td>ESE 4943 Internship II 11</td>
<td></td>
</tr>
<tr>
<td>EDF 4467 Learning Theory &amp; Assessment 3</td>
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</tr>
</tbody>
</table>

*Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.*

**Summer**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>TSL 4080</td>
<td>Theory &amp; Pract of Teaching ESOL Students in Schools</td>
<td>3</td>
</tr>
<tr>
<td>EME 2040</td>
<td>Technology for Educators</td>
<td>3</td>
</tr>
<tr>
<td>POS 2041</td>
<td>American National Gov 3</td>
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</table>

**Junior Year**

<table>
<thead>
<tr>
<th>Fall (14 hrs)</th>
<th>Spring (12 hrs)</th>
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</thead>
<tbody>
<tr>
<td>PCB 3703C Human Physiology 4</td>
<td>MCB 3020C Microbiology 5</td>
</tr>
<tr>
<td>PCB 3044L Ecology Lab 1</td>
<td>EDE 3212 Intern in Sec Settings 1</td>
</tr>
<tr>
<td>RED 4043 Content Reading K-12 3</td>
<td>EDE 3213 Intern in Sec Settings 1</td>
</tr>
<tr>
<td>ZOO 3733C Human Anatomy 3</td>
<td>EDE 3214 Intern in Sec Settings 1</td>
</tr>
<tr>
<td>ESE 4943 Internship II 11</td>
<td>EDE 3214 Intern in Sec Settings 1</td>
</tr>
<tr>
<td>EDF 4603 Anal &amp; Appl of Eth, Legal, &amp; Safety Issues in Sch 3</td>
<td>EDE 3215 Intern in Sec Settings 1</td>
</tr>
<tr>
<td>ESE 3940 Internship I 3</td>
<td>EDE 3216 Intern in Sec Settings 1</td>
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<tr>
<td>SPC 1600 Fund of Oral Comm 3</td>
<td>EDE 3217 Intern in Sec Settings 1</td>
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<tr>
<td>EED 4074 Teaching Exceptional 3</td>
<td>EDE 3218 Intern in Sec Settings 1</td>
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<tr>
<td>EEX 4074 Teaching Exceptional 3</td>
<td>Students in Secondary Settings</td>
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**Senior Year**

<table>
<thead>
<tr>
<th>Fall (13 hrs)</th>
<th>Spring (12 hrs)</th>
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<tbody>
<tr>
<td>PCB 3703C Human Physiology 4</td>
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<tr>
<td>ESE 4943 Internship II 11</td>
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</tr>
<tr>
<td>ESE 3940 Internship I 3</td>
<td></td>
</tr>
<tr>
<td>SPC 1600 Fund of Oral Comm 3</td>
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</tr>
<tr>
<td>EED 4074 Teaching Exceptional 3</td>
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</tr>
</tbody>
</table>

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SCIENCE EDUCATION - CHEMISTRY (B.S.)

College of Education
Department of Teaching and Learning Principles, ED 209
http://www.education.ucf.edu/
Program Coordinator: Dr. Aldrin Sweeney, ED 123L, 407-823-2561, E-mail: asweeney@pegasus.cc.ucf.edu

Admission Requirements
- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university.
- Have a minimum 2.5 overall GPA.
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of “C-” (1.75) or better.
- Meet the Gordon Rule Requirement.

Degree Requirements
- Students should see an advisor prior to registering for classes.
- The courses designated in 1 (UCF General Education Program) and 2 (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses.

This is a state-approved, initial teacher preparation program.

1. UCF General Education Program (36+1 hrs)
   A. Communication Foundation (9 hrs)
      1. ENC 1101 English Composition I 3 hrs
      2. ENC 1102 English Composition II 3 hrs
   B. Cultural-Historical Foundation (9 hrs)
      1. Prefer: AMH 2010 U.S. History 1492-1877 3 hrs
      2. Prefer: PHI 2010 Introduction to Philosophy 3 hrs
      3. Prefer: AMH 2020 U.S. History 1877-present 3 hrs
   C. Mathematical Foundation (6 hrs)
      1. Select: MAC 1147 College Algebra 3 hrs
      2. Prefer: STA 1063C Basic Statistics using MS Excel 3 hrs
   D. Social Foundation (6 hrs)
      1. Prefer: POS 2041 American National Government 3 hrs
      2. Prefer: PSY 2012 General Psychology 3 hrs
   E. Science Foundation (6+1 hrs)
      A grade of “C-” (1.75) is required.
      1. Select: BSC 2010C Biology I 4 hrs
      2. Select: CHM 1044C General Chemistry II 4 hrs
      3. Prefer: CHS 2043C General Chemistry III 3 hrs
      4. Prefer: CHM 2046 Chemistry Fundamentals Lab 1 hr
      5. Prefer: CHM 2046 Chemistry Fundamentals II 3 hrs
   F. Science- Technology (6 hrs)
      1. ENC 1101 English Composition I 3 hrs
      2. ENC 1102 English Composition II 3 hrs
      3. ENC 1103 English Composition III 3 hrs

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)
   EDF 2005 Introduction to Education 3 hrs
   EDG 2701 Teaching Diverse Populations 3 hrs
   EME 2040 Technology for Educators 3 hrs

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (8 hrs)
   EDF 2130 Child & Adolescent Development for Educators 3 hrs
   CHM 2045C Chemistry Fundamentals I 4 hrs
   PSC 1121 Physical Science 3 hrs
   PSC 1121L Physical Science Lab 1 hr
   BSC 2010C Biology I 3 hrs
   MAC 1114 College Trigonometry 3 hrs

Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

4. Education Core Requirements (18 hrs)
   EDF 4467 Learning Theory and Assessment 3 hrs
   EDF 4603 Analysis and Applications of Ethical, Legal, and Safety Issues in Schools 3 hrs
   EDG 4410 Teaching Strategies and Classroom Mgmt 3 hrs
   EEX 4074 Teaching Exceptional Students in Sec Settings 3 hrs
   RED 4043 Content Reading in Kindergarten thru Grade 12 3 hrs
   TSL 4080 Theory and Practice of Teaching ESOL 3 hrs

5. Internship I Block (7 hrs)
   SCC 4360 Science Instructional Analysis 4 hrs
   ESE 3940 Internship I 3 hrs

6. Specialization Requirements (29 hrs)
   CHM 2046 Chemistry Fundamentals II 3 hrs
   CHM 2046L Chemistry Fundamentals Lab 1 hr
   PHY 2053C College Physics II 4 hrs
   CHM 3120 Analytical Chemistry 3 hrs
   CHM 3120L Analytical Chemistry Lab 1 hr
   CHM 2210 Organic Chemistry I 3 hrs
   CHM 2211 Organic Chemistry II 3 hrs
   CHM 221IL Organic Laboratory Techniques I 2 hrs
   CHS 3501 Intro to Forensic Science 3 hrs
   BCH 4053 Biochemistry I 3 hrs
   SCE 4XXX Programs in Teaching Science 3 hrs

   At least 80% of all required chemistry courses and all methods courses must be completed with a letter grade of “C-” (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.

   Passing score on the Subject Area Examination (Chemistry 6-12) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II. Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.

7. Internship II Block (12 hrs)
   ESE 4943 Internship II 11 hrs
   ESE 4942 Internship II Secondary Seminar 1 hr

   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-5.066.

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
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
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<tbody>
<tr>
<td>EEX 4074</td>
<td>Teaching Exceptional Students</td>
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<tr>
<td>CHS 3501</td>
<td>Intro to Forensic Science</td>
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<td>EDF 4467</td>
<td>Learning Theory &amp; Assessment</td>
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<td>CHM 2211</td>
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<td>PSC 1121</td>
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<td>Summer Course</td>
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<td>Technology for Educators</td>
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<td>CHM 2045C</td>
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<td>SPC 1600</td>
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<td>Summer Course</td>
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**Transfer Notes:** Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

<table>
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<td>Learn Theory &amp; Assmt</td>
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<td>EDF 4410</td>
<td>Teaching Strat &amp; Class Mgmt</td>
<td>3</td>
</tr>
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<td>EEX 4074</td>
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<td>CHM 2211</td>
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<td>TSL 4080</td>
<td>Theory &amp; Prac of Teach ESOL</td>
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<tr>
<th>Course Code</th>
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<th>Credit Hours</th>
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<td>BCH 4053</td>
<td>Biochemistry I</td>
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<tr>
<td>EDF 4003</td>
<td>Anal &amp; Appl of Eth, Legal, &amp; Safe Issues in Sch</td>
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<td>ESE 2340</td>
<td>Internship I</td>
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<td>BCE 4360</td>
<td>Science Instructional Analysis</td>
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**SCIENCE EDUCATION - PHYSICS (B.S.)**

**College of Education**

**Department of Teaching and Learning Principles, ED 209**

**http://www.education.ucf.edu/**

**Program Coordinator:** Dr. Aldrin Sweeney, ED 123L, 407-823-2561

**E-mail:** asweeney@pegasus.cc.ucf.edu

**Admission Requirements**

- Complete the University General Education requirements or its equivalent, i.e. an AA degree from an approved Florida community college or state university.
- Have a minimum 2.5 overall GPA.
- Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted).
- Complete all Education Common Program Prerequisite courses with a minimum letter grade of "C" (1.75) or better.
- Meet the Gordon Rule Requirement.

**Degree Requirements**

- Students should see an advisor prior to registering for classes.

**Program Internship I Prerequisites:** EDF 4410, TSL 4080 and at least 50% of all required biology courses must be completed prior to Internship I with a minimum grade of "C" (1.75) or better. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship I.

**Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.**

**Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.**

**Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses:** EDF 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL.
UCF Degree Programs

4080 Theory and Practice of Teaching ESOL Students in Schools.

5. Internship I Block (7 hrs)
   SCE 4360 Science Instructional Analysis 4 hrs
   ESE 3940 Internship I 3 hrs

6. Specialization Requirements (29 hrs)
   CHM 2045C Chemistry Fundamentals I 4 hrs
   CHM 2046 Chemical Fundamentals II 3 hrs
   CHM 2046L Chemistry Fundamentals Lab 1 hr
   MAC 2312 Calculus with Analytic Geometry II 4 hrs
   MAC 2313 Calculus with Analytic Geometry III 4 hrs
   PHY 2049 Physics for Engineers & Scientists II 3 hrs
   PHY 2049L Physics Lab for Engineers & Scientists II 1 hr
   PHY 3101 Physics for Engineers & Scientists III 3 hrs
   SCE 4XXX Programs in Teaching Science 3 hrs
   PHY 3752C Physics of Scientific Instruments or 3 hrs
   PHY 3722C Physics Laboratory Electronics

   At least 80% of all required chemistry courses and all methods courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.

   Passing score on the Subject Area Examination (Physics 6-12) portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended prior to entry into Internship II.

   Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.clinicalexperiences.education.ucf.edu.

7. Internship II Block (12 hrs)
   ESE 4943 Internship II 11 hrs
   ESE 4942 Internship II Seminar Secondary 1 hr

   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-5.066.

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

9. Departmental Exit Requirements
   Achieve a minimum 2.5 GPA in all courses within the major.
   Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
   Pass all applicable sections of the Florida Teacher Certification Examination.

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

11. Total Program Semester Hours Required 120 hrs

Consult with your Education advisor and review your degree audit for more recent information.

12. Recommended Four Year Sequence of Courses

Freshman Year
   Fall (12 hrs)
   EDF 2005 Introduction to Education 3
   ENC 1101 English Composition I 3
   PSY 2012 General Psychology 3
   STA 1060C Basic Stat using MS Excel or 3
   STA 2014C Principles of Statistics 3
   Summer (6 hrs)
   EME 2040 Technology for Educators 3

   Spring (16 hrs)
   ENC 2311 Cal with Anal Geometry I 4
   EDG 2701 Teaching Diverse Pop 3
   SPC 1600 Fund of Oral Comm 3
   ENC 1102 English Composition II 3
   PH 2040 Intro to Philosophy 3

Sophomore Year
   Fall (14 hrs)
   AMH 2010 U.S. History 1492-1877 3
   MAC 2312 Cal with Analytic Geometry II 4
   MAC 2313 Cal with Analytic Geom III 4
   PSC 1121 Physical Science 3
   PSC 1121 L Physical Science Lab 1
   Select one:
   ALT 2311 The Human Species or 3
   BSC 1005 Biological Principles

   Spring (14 hrs)
   AMH 2020 US History 1877-present 3
   MAC 2312 Cal with Analytic Geometry II 4
   MAC 2313 Cal with Analytic Geom III 4
   EDF 2130 Child and Adol Dev Ed* 3
   Select one:
   ALT 2311 The Human Species or 3
   BSC 1005 Biological Principles

   *Transfer Notes: Courses taken at community colleges may substitute for select courses in Other Program Requirements with the permission of the department.

Summer
   (4 hrs)
   PHY 2040 Physics for Eng & Scientists I 3
   PHY 2040L Physics Lab for Eng & Sci I 1

Junior Year
   Fall (13 hrs)
   CHM 2046 Chemistry Fund II 3
   ESE 3940 Internship II 3
   EDF 2701 Internship II Seminar Secondary 1

   Spring (12 hrs)
   PHY 2048 Physics for Eng & Scientists I 3
   PHY 2048L Physics Lab for Eng & Sci I 1
   EDF 3942 Intern II Sec Seminar 1

Senior Year
   Fall (13 hrs)
   EDF 4043 Anal & Appl of Eth, Legal, & Safe Issues in Sch 3
   ESE 4943 Internship II 3
   ESE 4942 Intern II Sec Seminar 1

   Spring (12 hrs)
   PHY 3101 Physics for Eng & Scientists III 3
   EDF 3940 Internship I 3
   SCE 4360 Science Instructional Analysis 4
   PHY 3752C Physics of Sci Instruments or 3
   PHY 3722C Physics Lab Electronics

SOCIAL SCIENCE EDUCATION (B.S.)

College of Education

Department of Teaching and Learning Principles, ED 209
http://ss.education.ucf.edu/
Program Coordinator: Dr. Scott Waring, ED 123H, 407-823-1766,
E-mail: swaring@mail.ucf.edu

Admission Requirements
   - Complete the University General Education requirements or their equivalent, i.e. an AA degree from an approved Florida community college or state university
   - Have a minimum 2.5 overall GPA
   - Pass all four parts of the General Knowledge Test and/or CLAST examination (no alternatives or waivers are accepted)
   - Complete all Education Common Program Prerequisites and Other Program Prerequisites courses with a minimum letter grade of "C-" (1.75) or better.
   - Meet the Gordon Rule Requirement.

Degree Requirements
   - Students should see an advisor prior to registering for classes
   - The courses designated in 1. (General Education) and 2. (Education Common Program Prerequisites) should be completed prior to admission to the major and upper division education courses
   - This is a state-approved, initial teacher preparation program designed in compliance with Florida Statutes and State Board of Education Rule 6A-5.066. Degree requirements are subject to change based on state mandates.

1. UCF General Education Program (36 hrs)
   A. Communication Foundation (9 hrs)
      1. ENC 1101 English Composition I 3 hrs
      2. ENC 1102 English Composition II 3 hrs
      3. Select: ENC 1102 or ENC 1103 or ENC 1104 3 hrs
   B. Cultural-Historical Foundation (9 hrs)
      1. Select: AMH 2010 U.S. History 1492-1877 3 hrs
      2. Select: PHI 2010 Introduction to Philosophy 3 hrs
      3. Select: AMH 2020 US History 1877-present 3 hrs

UNIVERSITY OF CENTRAL FLORIDA 2007-2008 Undergraduate Catalog
D. Social Foundation (6 hrs)

Note

Students must apply and be approved for Internship I. Deadline is three years before internship will be completed. Passing score on the Professional Education Test portion of the "Practicum in Early Childhood Education" is required. Prior to Internship I, the student must have completed EDG 4410.*

E. Science Foundation

1. Prefer: PSC 1211 General Science
2. Prefer: ANT 2511 The Human Species or BSC 1005 Biological Principles

Note: Students are advised to take the preferred courses.

2. Education Common Program Prerequisites (9 hrs)

EDF 2005* Introduction to Education
EDG 2701 Technology for Educators
EME 2040 Technology for Educators

Note: In addition to EDG 2701, a minimum of 6 hours with an international or diversity focus is required. The foreign language admission requirement may be used to meet this requirement.

3. Other Program Requirements (9 hrs)

EDF 2130* Child & Adolescent Development for Educators
SYG 2000 General Sociology
ECO 2013 Macroeconomics

Note: Student should consult advisor regarding course options.

4. Education Core Requirements (18 hrs)

EDG 4410 Teaching Strategies and Classroom Management
EDF 4667 Learning Theory and Assessment
TSL 4080 Theory and Practice of Teaching ESOL
EEX 4074 Teaching Exceptional Students in Secondary Settings
RED 4043 Content Reading Kindergarten thru Grade 12

Prior to Internship I, the student must have completed EDG 4410 Teaching Strategies and Classroom Management and at least 50% of all required social science courses indicated above with a letter grade of "C-" (1.75) or better. However, a minimum GPA of 2.5 is required in the professional, specialization, and overall for admission to Internship I.

Passing score on the General Knowledge Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended during the first semester (if CLAST was used for admission) and before application to Internship I.

Passing score on the Professional Education Test portion of the Florida Teacher Certification Examination (FTCE) is strongly recommended as soon as possible after completing the following courses: EDG 4410 Teaching Strategies and Classroom Management, EDF 4467 Learning Theory and Assessment, RED 4043 Content Reading Kindergarten through Grade 12, and TSL 4080 Theory and Practice of Teaching ESOL Students in Schools.

Students must apply and be approved for Internship I. Deadline dates and applications are available through the Office of Clinical Experiences at http://www.clinicalexperiences.education.ucf.edu.

5. Internship I Block (6 hrs)

SSE 4361 Social Science Instructional Analysis
EME 3940 Internship I

6. Specialization Requirements (30 hrs)

SSE 4XXX Programs in Teaching Social Science
GEO 3471 World Geography

Upper Division Non Western History Elective: (LAH, AFH, or ASH prefix courses 34XXX)
Upper Division Political Science Electives
Upper Division American History Electives (AMH 34XXX)

Field of Concentration Upper Division Electives (AFH, AMH, ASH, CPO, INR, LAH, or POS 34XXX)

ECO 2023 Microeconomics
EUH 2000 Western Civilization I
EUH 2001 Western Civilization II
AMH 2010 U.S. History 1492 – Present
AMH 2020 U.S. History 1877 – Present
POS 2041 American National Government
PSY 2012 General Psychology

SSE 4943 Internship II
SSE 4941 Internship II Secondary Seminar

At least 80% of all required social science courses and all methods courses must be completed with a letter grade of "C-" (1.75) or better before registering for Internship II. However, a minimum GPA of 2.5 is required in the professional, specialization and overall for admission to Internship II.

Passing score on the Subject Area Examination (Social Science 6-12) portion of the Florida Teacher Certification Examination is strongly recommended prior to entry into Internship II.

Students must apply and be approved for Internship II. Deadline dates and applications are available through the Office of Clinical Experiences at www.clinicalexperiences.education.ucf.edu.

Satisfactory completion of Internship II requires the student to demonstrate proficiency in all 12 Florida Educator Accomplished Practices at the preprofessional level in accordance with State Board of Education Rule 6A-5.066.

7. Internship II Block (12 hrs)

GEO 3471 World Political Geography
SSE 4943 Internship II
SSE 4941 Internship II Secondary Seminar

Complete a portfolio according to program guidelines. This portfolio may include demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.

Pass all applicable sections of the Florida Teacher Certification Examination.

8. Foreign Language Requirements (0-8 hrs)

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

9. Departmental Exit Requirements

Achieve a minimum 2.5 GPA in all courses within the major.
Complete a portfolio according to program guidelines. This portfolio requires demonstration of professional growth, reflection, and proficiency in the 12 Florida Educator Accomplished Practices.
Pass all applicable sections of the Florida Teacher Certification Examination.

10. University Minimum Exit Requirements

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

11. Total Program Semester Hours Required 120 hrs

Consult with your Education advisor and review your degree audit for more recent information.

12. Recommended Sequence of Program Courses:

Freshman Year

Fall (12 hrs) Spring (12 hrs)
EDF 2005 Introduction to Education 3 EDF 2701 Teaching Diverse Populations 3
ENC 1101 English Composition I 3 ENC 1102 English Composition II 3
MGF 1106 Finite Mathematics 3 POS 2041 American National Government 3
PSY 2012 General Psychology 3 SSE 4941 Internship II Secondary Seminar 1

Select one:
ANT 2511 The Human Species 3
or
BSC 1005 Biological Principles 3

Sophomore Year

Fall (15 hrs) Spring (12 hrs)
AMH 2010 U.S. History 1492-1877 3 AMH 2020 U.S. History 1877-present 3
ECO 2023 Microeconomics 3 ECO 2024 Macroeconomics 3
POS 2041 American National Government 3 EDF 4603 Analysis and Applications of Ethical, Legal, and Professional Issues 3
SYG 2000 General Sociology 3 EDF 4467 Learning Theory and Assessment 3
STA 1060C Basic Stat using MS Excel 3 SPO 2000 Fund of Oral Comm 3

UCF Degree Programs

UCF 249
UCF Degree Programs

Residency Requirement: Students must complete at least 30 hours of regularly scheduled 3000-4000 level courses that are used in the major at UCF.

Independent study forms must be approved by the department.

Co-op and internship credit cannot be used in this major.

Students should consult with a Sociology advisor when entering the program.

Students who change degree programs and select this major must adopt the most current catalog.

Before applying to graduate, the CLAST must be completely satisfied.

Select one course:
- POS 2041 American National Government
- Select four more Political Science courses

Select one course:
- COM 3311 Communication Research Methods
- Select one course
- RTV 3007 Dev. & Str of Elect Media and New Tech
- RTV 4403 Electronic Media, Tech. & Soc
- JOU 3004 History of American Journalism

Select three additional Sociology/Anthropology courses

Additional 12 hours of Public Affairs courses

Satisfactory completion of the program leads to the degree Bachelor of Science with a major in Social Sciences.

The program is administered through the Department of Sociology in the College of Sciences.

Admission Requirements

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog.

Students must declare a Social Sciences major prior to their senior year.

Students must declare a Social Sciences major prior to their senior year.

Students must complete at least 30 hours of regularly scheduled 3000-4000 level courses that are used in the major at UCF.

Students must earn at least a “C” (2.0) in each core requirement and restricted elective course.

Residency Requirement: Students must complete at least 30 hours of regularly scheduled 3000-4000 level courses that are used in the major at UCF.

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)

2. Common Program Prerequisites

ECT 2013 or POS 2041

*See Transfer Notes

3. Core requirements

Select one course
- POS 3703 Scope and Methods of Political Science
- PSY 3213C Research Methods in Psychology
- SYA 4300C Research Methods (Sociology)

4. Restricted Electives

Select a minimum of 15 semester hours in four of the following six Social Science disciplines.

Select no more than two lower level Social Science courses (designated with an asterisk) in any one area in the Restricted Elective section.

A. Communication

B. Economics

C. Political Science

D. Psychology

E. Public Affairs

F. Sociology/Anthropology

5. Departmental Exit Requirements

- Maintain a minimum GPA of 2.0 in each of four Social Science disciplines.
- Computer Competency is met by the major.
- Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements

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

Graduation: Proficiency equivalent to one semester of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies, or one course with a multicultural dimension. Standardized examinations for foreign languages may be used to meet the requirement.

7. Electives

Select primarily from upper level courses, with a Sociology advisor’s approval.

8. University Minimum Exit Requirements

- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
SOCIAL WORK (B.S.W.)

College of Health and Public Affairs
HPA1 204, 407-823-2114
http://www.coepa.ucf.edu/social/
E-mail: socialwk@mail.ucf.edu
Director: Dr. John Ronnow
Undergraduate Program Coordinator: Robin Kohn

Admission Requirements

Acceptance to the University does not necessarily constitute admission to the upper division social work program. Separate application to the limited access program must be made to the School of Social Work. Students are admitted to the undergraduate program only in the Summer or Fall terms. To be considered for admission to the program, students must have:
- Admission to the University
- A 2.5 overall GPA
- An AA (from a Florida State Community College) or UCF General Education Program, Gordon Rule, and CLAST

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 considered for acceptance include intelligence, initiative, social concern, appreciation for human diversity, dependability, humanitarian interests in helping people and in improving human services and 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 a minimum grade of “C” (2.0) in each course.
- Students must earn an overall GPA of 2.5 for entry into field education (SOW 4510) and to be eligible for graduation from the Social Work Program

Students must complete all the requirements listed in 1-11 below

1. UCF General Education Program (36 hrs)
   - Communication Foundations 9 hrs
   - Cultural Historical Foundations 9 hrs
   - Mathematical Foundations 6 hrs
   - Social Foundations 6 hrs

2. Common Program Prerequisites* (15 hrs)
   - American Government
   - Biology
   - Macroeconomics or Microeconomics
   - Psychology
   - Sociology

3. Core Requirements (45 hrs)
   - Human Development
   - Social Work and Community Resources
   - Generalist Practice in Social Work
   - Human Systems
   - Interpersonal Skills in Social Work Practice
   - Social Work Research
   - Social Work with Diverse Populations
   - Documentation in Social Work Practice and Service Programs
   - Social Welfare Policies and Issues
   - Micro-level Roles and Interventions in Social Work
   - Macro-level Roles and Interventions in Social Work
   - Field Education
   - Field Education Seminar

4. Required Social Work Elective 3 hrs

5. Required Principles of Statistics 3 hrs

6. Electives (variable)

7. Foreign Language or Cultural Diversity Requirement
   - Two years of one foreign language in high school, or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.

8. Foreign Language Requirements (0-8 hrs)
   - Admissions: Two years of one foreign language in high school, or one year of foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Students that transfer with an AA degree and will be pursuing a BS degree must meet the University foreign language admission requirements for graduation.

9. Departmental Exit Requirements (120 hrs)
   - A minimum overall GPA of 2.5 in all social work courses with a minimum grade of “C” (2.0) 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
UCF Degree Programs

- 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 older adults in 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. Students may complete the Aging Studies certificate (with the exception of the internship requirement) as a fully web-based program.

The program may be of particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education or art education. All students must contact the Coordinator for planning their internship.

Children’s Services Certificate: This certificate is open only to students in the undergraduate social work program (BSW). The Children’s Services Certificate is designed to help students learn about the various components of the child welfare system and how that system impacts children and families. Students are prepared to identify child welfare problems such as child abuse and neglect experienced by children and families and are taught basic skills in working with families and with the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.

Addictions Certificate: This certificate is open only to students in the undergraduate social work program (BSW). Addiction courses may be taken as electives by non-majors and be applied to the state certification. The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers. 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 and/or the addiction specific courses will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida.

Related Minors: Health Services Administration, Aging Studies, Psychology, Sociology

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)
- Introductory Psychology
- Introductory Sociology
- Principles of Statistics

Tentative Course Schedule for Entering Freshmen

Freshman Year* Fall 14 hrs Spring 15 hrs
ENC 1101 3 ENC 1102 3
BSC 1005 or MCB 1310 3 MGF 1106 3
SYG 2000 or PSY 2012 3 SYG 2000 or PSY 2000 3
STA2014C 3 MUL 2010 or THE 2000 3
PAF 2102 2 or REL 2300 or PHI 2010 1
POS 2041 3

Sophomore Year

Fall 15/16 hrs Spring 15/16 hrs
ECO 2013 or ECO 2023 3 Foreign Lang II or 3
EUH 2000 or WOH 2012 or 3 Cult Diversity 3
HUM 2210 or AMH 2010 3 CHM 1200 or PSC 1121 or 3
AST 2002 3
SPC 1600 3 Elective 3
Foreign Lang I or Cult Diversity 3/4 Elective 3
Junior Year

Fall 15 hrs Spring 15 hrs
SOW 3104 3 SOW 3111 3
SOW 3203 3 SOW 3352 3
SOW 3300 3 SOW 3401 3
SOW Elective 3 SOW 3620 3
STA2014C or Elective 3 Elective 3

Senior Year

Fall 15 hrs Spring 16 hrs
SOW 4232 3 SOW 4510 9
SOW 4341 3 SOW 4522 3
SOW 4433 3 Elective 3
SOW 4431 3 Elective 3
Elective 3

SOCIOLOGY (B.A.)
College of Sciences
Department of Sociology, PH 403, 407-823-2227
http://www.cos.ucf.edu/sociology
E-mail: sociology@ucf.edu
Contact: J. Corzine, 407-823-2227

The Sociology curriculum emphasizes critical examination of various components of society. The curriculum increases students' social awareness and their ability to employ a sociological perspective to interpret social institutions and behavior.

Admission Requirements
- none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Departmental Residency Requirement: at least 30 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Sociology Department.
- Students must maintain a UCF GPA of at least 2.0 in all courses used for the major.
- Students must have a “C” (2.0) or higher in all core courses.
- Co-op credit cannot be used in this major.
- Students should consult annually with a departmental advisor.
- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   1. Communication Foundations 9 hrs
   2. Cultural and Historical Foundations 9 hrs
   3. Mathematical Foundations 3 hrs
   4. Social Foundations 3 hrs

2. Common Program Prerequisites (3 hrs)
   SYG 2000* General Sociology
   Any SYA, SYD, SYG, SYO, or SYP course 3 hrs
   *See Transfer Notes

3. Core requirements (15 hrs)
   SYG 2000 General Sociology (or SYG 2010) GEP
   SYA 3400 Research Methods and Statistics 4 hrs
   SYA 4300C Research Methods 4 hrs
   SYA 4450 Data Analysis 4 hrs
   SYA 3110 Development of Social Thought 3 hrs

4. Restricted Electives (27 hrs)
   Select from the following
   SYA 3120 Modern Sociological Thought
   SYA 4650C Applied Sociology
   SYA 5625 Proseminar
Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Summer
Math test See catalog 0

Freshman Year
Fall
ENC 1101 Composition I 3
MAC 1105* req# 1C1-GEP 3
PSC 1121* req# 1E1-GEP 3
PHI 2010* req# 1B3-GEP 3

Spring
ENC 1102 Composition II 3
STA 2014C Prin of Statistics 3
SYG 2000*; although the CPP accepts any lower division sociology course, SYG 2000 is a prerequisite for subsequent courses and must be taken.

Sophomore Year
Fall
ANT 2511* req# 1E2-GEP 3
EUH 2001* req# 1B1-GEP 3
REL 2300* req# 1B2-GEP 3

Spring
COM 1000* req# 1A3-GEP 3
REL 2900* req# 1B2-GEP 3
SYG 2010 Social Problems 3

Junior Year
Fall
SYP 3510* req# 4-ResElect 3
SYD 3410* req# 4-ResElect 3

Spring
SYP 3511 Sociology of Murder 3
SYD 3800* req# 4-ResElect 3

Senior Year
Fall
SYA 3120* req# 4-ResElect 3
SYG 2000 General Sociology 3

Spring
SYO 3530* req# 4-ResElect 3
SYD 3800* req# 4-ResElect 3

Transfer Notes:
- Lower division 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.
- SYG 2000; although the CPP accepts any lower division sociology course, SYG 2000 is a prerequisite for subsequent courses and must be taken.

SPANISH (B.A.)
College of Arts and Humanities
Department of Modern Languages & Literatures,
CNH 523
http://www.cas.ucf.edu/forlang/
E-Mail: modernlanguage@ucf.edu
Contact: P. Giordano, 407-823-2472

Admission Requirements
none

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

Degree Requirements
Students who change degree programs and select this major must adopt the most current catalog.
- 36 credits in Spanish must be taken at the 3000 level or above
- At least 6 of the 36 Spanish credits must be at the 4000 level
- At least 30 hours must be taken in Modern Language courses taught in Spanish
- Students must earn at least a “C” (2.0) in each upper division Spanish course
- Departmental Residency Requirement consists of at least 18 semester hours of regularly scheduled 3000-4000 level courses taken from the UCF Department of Modern Languages and
Earn a grade of “C” (2.0) or higher in at least 36 hours of upper division Spanish courses.
- Co-op or internship credit cannot be used in this major.
- Students must see their departmental advisor to obtain proper counseling and have their schedule approved before registering for courses in their major.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural and Historical Foundations 9 hrs
   - C. Mathematical Foundations 6 hrs
   - Prefer MGF 1106 Finite Mathematics (may substitute a higher level math)
   - Prefer STA 1060C Statistics Using Excel 3 hrs
   - Social Foundations 6 hrs
   - E. Science Foundations 6 hrs

2. Common Program Prerequisites (0-14 hrs)
   - SPN 1120* Elem Spanish Lang & Civ I 4 hrs
   - SPN 1121* Elem Spanish Lang & Civ II 4 hrs
   - SPN 2200* Intern Spanish Lang & Civ I 3 hrs
   - SPN 3234 Advanced Directed Readings 3 hrs
   - *May be met by proficiency test or completion of SPN 3234

3. Core requirements (15 hrs)
   - SPN 3300* Adv Spanish Gram and Comp 3 hrs
   - SPN 3420* Spanish Composition 3 hrs
   - SPN 3760* Adv Spanish Oral Comm 3 hrs
   - SPW 3100 & 3101 Survey of Spanish Literature or
     or
   - SPW 3130 & 3131 Survey of Latin-American Literature 6 hrs
   - *A native or near-native Spanish speaker must substitute an alternate upper division Spanish course in consultation with a departmental advisor.

4. Upper Division Restricted Electives (21 hrs)
   - a. 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
   - b. Spanish literature beyond the survey level (taught in Spanish) 6 hrs
   - c. Culture and Civilization 3 hrs
      - SPN 4510 Spanish Civ & Culture or
      - SPN 4520 Latin American Civ & Culture
   - d. Spanish courses 9 hrs

5. Departmental Exit Requirements
   - Earn a grade of “C” (2.0) or higher in at least 36 hours of upper division Spanish courses.
   - Students are required to satisfactorily complete a departmental exit exam. The exam is offered each September and February; students should discuss the optimal test date with their advisor.
   - Computer Competency met by CGS 1060C or equivalent

6. Foreign Language Requirements (0-16 hrs)
   - Admission: Met by Graduation requirements.
   - Graduation: Met by Common Program Prerequisites.

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

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

Total Semester Hours Required 120 hrs

Related Programs: French, Modern Language Combination
Related Minors: French, Italian, Judaic Studies, Latin American 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.

Suggested Plan of Study:
One of numerous possible plans of study. See program description for all requirements. Courses with an asterisk (*) may be replaced by alternates in the same requirement. Consult a departmental advisor for alternate, new or more appropriate selections.

Freshman Year
Fall
- SPN 1120* req# 2-CPP 4
- MGF 1106* req# 1E2-GEP 3
- STA 1060C* req# 1C2-GEP 3

Spring
- AMH 2100* req# 1B1-GEP 3
- MATH 1050* req# 1C1-GEP 3
- ESC 1005* req# 1E2-GEP 3

Sophomore Year
Fall
- SPN 2200* req# 2-CPP 3
- PSC 1121* req# 1D1-GEP 3
- POS 2041* req# 1B1-GEP 3
- ARH 2050* req# 1B3-GEP 3
- AMH 2100* req# 1B2-GEP 3
- BSC 1005* req# 1E2-GEP 3

Spring
- SPN 3300* req# 2-CPP 3
- SPN 3420* req# 2-CPP 3
- SPN 3760* req# 2-CPP 3
- SPW 3100 & 3101 Survey of Spanish Literature or
  or
- SPW 3130 & 3131 Survey of Latin-American Literature 6 hrs
- *A native or near-native Spanish speaker must substitute an alternate upper division Spanish course in consultation with a departmental advisor.

Senior Year
Fall
- SPN 3420 Spanish Comp 3
- SPW 3130 Survey of Latin-American Literature 3 hrs

Spring
- SPN 4780 Spanish American Syntax 3
- SPN 4780 Spanish Phonetics 3
- SPN 4802 Spanish Morphosyntax 3
- SPN 4801 Spanish American Syntax 3

Junior Year
Fall
- SPN 2200* req# 2-CPP 3
- POS 2041* req# 1D2-GEP 3
- ARH 2050* req# 1B3-GEP 3
- AMH 2100* req# 1B2-GEP 3
- BSC 1005* req# 1E2-GEP 3

Spring
- SPN 3420 Spanish Comp 3
- SPN 3760 Spanish Oral Comm 3
- SPN 3420 Spanish Comp 3
- SPN 3420 Spanish Comp 3

SPORTS AND FITNESS (B.S.)
College of Education
Department of Child, Family and Community Sciences
ED209
http://pegasus.cc.ucf.edu/~sportfit/
Program Coordinator: Dr. Michael Kehoe, UCF at South Lake, Bldg 2, Room 316, 352-536-2179, E-mail: mkehoe@mail.ucf.edu
Point of Contact for Orlando Campus: Dr. Debby Mitchell, ED 320-Q, 407-823-6598, E-Mail: Mitchell@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; or the AS degree from the affiliated program at Lake Sumter Community College.
- Have a minimum 2.0 overall GPA.
- Meet the University CLAST or CLAST alternative criteria.
- Complete program prerequisite courses prior to admission to the major and upper level courses.
- Meet the Gordon Rule Requirement.

Degree Requirements
- Students should consult with an advisor on a regular basis. The courses designated in 1. (General Education), 2. (Sports and...
Students must complete three certifications approved by advisor prior to graduation.

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 application and approval process of the organization with which they will be working.

**1. UCF General Education Program (36+1 hrs)**

- **A. Communication Foundation (9 hrs)**
  1. ENC 1101 English Composition I 3 hrs
  2. ENC 1102 English Composition II 3 hrs

- **B. Cultural-Historical Foundation (9 hrs)**
  1. Prefer: AMH 2020 U.S. History 1492-1877 3 hrs
  2. Elective from GEP section B.2 3 hrs
  3. Prefer: AMH 2020 U.S. History 1877-present 3 hrs

- **C. Mathematical Foundation (6 hrs)**
  1. Prefer: MGF 1106 Finite Mathematics 3 hrs

- **D. Social Foundation (7 hrs)**
  1. Prefer: POS 2041 American National Government 3 hrs
  2. Prefer: PSY 2012 General Psychology 3 hrs

- **E. Science Foundation (7 hrs)**
  1. Prefer: PSC 1121 Physical Science 3 hrs
  2. Select: BSC 2010C Biology I 4 hrs

**2. Sports and Fitness Co-requisite Courses (7 hrs)**

- PET 2622C Human Injuries 3 hrs
- ZOO 3736C Exercise Physiology Anatomy (PR: BSC 2010C) 4 hrs
- BSC 2010C Biology I GEP

Note: BSC 2093C and PET 2622 may be taken at a community college to meet UCF Sports and Fitness co-requisite requirements. BSC 2093C may substitute for ZOO 3736C if taken at a community college.

**3. Sports & Fitness Core (27 hrs)**

PET 3137 Concepts and Practices in Sports and Fitness 3 hrs
SPM 3415 Public Relations in Sports and Fitness 3 hrs
SPM 3504 Fiscal and Facilities Issues in Sports and Fitness 3 hrs
SPM 3204 Sports and Ethics 3 hrs
PET 4215 Motivational Aspects of Athletic Performance 3 hrs
PET 4312 Biomechanics 3 hrs
PET 4401 Administration & Evaluation 3 hrs
SPM 4729 Legal Issues in Sports and Fitness 3 hrs
PET 4550 Fitness Assessment and Exercise 3 hrs

**4. Specialization (15 hrs)**

Select 5 courses – approved by advisor

- DAE 3370 Dance and Rhythms 3 hrs
- PEO 3041 Games Analysis 3 hrs
- PET 3361 Nutrition for Sports and Fitness 3 hrs
- PET 3765 Coaching Theory 3 hrs
- PET 3771 Fitness and Conditioning Concepts 3 hrs
- PET 3820 Teaching Sport Skills 3 hrs
- PET 3768 Aquatic Management 3 hrs
- PET 3XXX Group Exercise Instruction 3 hrs
- PET 4050C Motor Development and Learning 3 hrs
- PET 4083C Practical Fitness Training 4 hrs
- PET 4351 Applied Exercise and Human Physiology 3 hrs
- PET 4625 Human Injuries - Mechanisms and Prevention 3 hrs
- PET 4640 Adapting Physical Education 3 hrs
- PET 4763 Coaching Methods and Principles 3 hrs

**Coaching Specific (3 hrs)**

Select one if working toward a coaching profession (as approved by advisor)

- PEO 2624 Coaching Basketball
- PEO 3324 Coaching Volleyball
- PEO 3644 Coaching Football

Students must complete three certifications approved by advisor prior to graduation.

**5. Sports & Fitness Practica (18 hrs)**

PET 4925 Sports and Fitness Practicum I 6 hrs
PET 4926 Sports and Fitness Practicum II 12 hrs

**6. Suggested Electives (16 hrs)**

(to meet 120 hrs requirement in consultation with advisor)

Electives Prefixes:

- PEL, PEM, PEO, PET, DEP, EDF, EDG, ACG, DAE, EEX, HFT, HLP, HSC, HUN

During the final year of the program, students will complete Practicum requirements with a Sports or Fitness organization. These experiences will provide the student with actual professional experiences and practical hands-on knowledge of the career in which they have chosen to work. The design of Practicum I will be that of an observational and analytical role. During Practicum II, the student will be given responsibilities and assignments through the organization in which they have been placed and will carry an active role in the operation of the organization.

In both Practicum I and Practicum II, the student will be working directly with a Placement Coordinator in the organization and their University Supervisor. The University Supervisor will maintain periodic contact with the Placement Coordinator to check performance status. The Sports and Fitness program has developed tremendous opportunities through associations with partners in the Clermont and greater Orlando areas. Students will not be limited to these organizations. Students will have the option to arrange their own practicum experience if they so choose. In either case, before enrolling in either Practicum I or Practicum II, students must meet with their advisor to provide organization contact information and gain Practicum Placement Approval.

The students will be instructed that they will be representing not only themselves while on site during their Practicum experiences, but also the University of Central Florida and the Sports and Fitness Program. Professionalism in manner, dress and job performance will be expected at all times. Should there be any question of the performance of the students during their practicum experience, they will be required to meet with their University Supervisor and their Faculty Advisor for a performance evaluation before returning to the Practicum site. The performance concerns will be addressed and a plan of action will be developed. If the problems persist and the situation warrants, the students may be removed from their Practicum experience.

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

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

**8. Exit Requirements**

- A minimum overall GPA of 2.5.
- 48 semester hours of upper division credit completed.
- 30 semester hours in regular courses completed at UCF.
- Specialization Certification.
- Participation in event operations of a minimum of one major sports and fitness event.
- Successful completion of 18 hours of Practicum Experiences.

**9. Total Program Semester Hours Required**

120 hrs

**10. Recommended Four-Year Sequence of Courses**

**Freshman Year**

**Fall**

- PSY 2012 General Psychology 3 hrs
- ENC 1101 English Composition I 3 hrs
- PSC 1121 Physical Science 3 hrs

**Spring**

- MGF 1106 Finite Mathematics 3 hrs
- POS 2041 American National Government 3 hrs
- SPC 1600 Fund of Oral Comm 3 hrs

**Sophomore Year**

**Fall**

- GEP B.1 3 hrs
- PET 2622C Human Injuries 3 hrs
- STA 1060C Basic Stat using MS Excel or 3 hrs

**Spring**

- GEP B.1 3 hrs
UCF Degree Programs

STA 2014C Principles of Statistics or
CPS 1060C Intro to Computer Sci
ZOO 3736C Human Anatomy with Lab
Elective

Summer (6 hrs)
GEP B.2 3
Elective 3

Junior Year
Fall (15 hrs) Spring (15 hrs)
PET 3137 Conc & prac in Sports & Fit 3 SPM 3415 Pub Relat in Sports & Fit 3
SPM 3204 Sports and Ethics 3 PET 4550 Fitness Assess & Exer 3
SPM 3504 Fiscal & Facil Issues Sp & Fit 3 PET 4312 Biomechanics 3
PET 4401 Administration & Evaluation 3 SPM 4723 Legal Issues Sports & Fit 3
Specialization course 3 Specialization course 3

Summer (3 hrs)
Specialization course 3

Senior Year
Fall (15 hrs) Spring (12 hrs)
PET 4215 Motiv Aspects of Ath Perf 3 PET 4926 Sports & Fit Practicum II 12
PET 4925 Sports & Fit Practicum I 6
Specialization course 3
Specialization course 3

STATISTICS (B.S.)
College of Sciences
Department of Statistics and Actuarial Science
CC II 212, 407-823-2289
http://www.cos.ucf.edu/statistics
E-mail: statistics@ucf.edu
Contact: Xiaogang Su, 407-823-2940

Admission Requirements none

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- All statistics courses except STA 2023, STA 3032, and those protected by Florida Common Course Numbering must be taken from, or approved by the Statistics Department at UCF.
- Departmental Residency Requirement: at least 15 semester hours of regularly scheduled 3000-4000 level courses must be taken from the UCF Statistics Department.
- Students must earn at least a “C” (2.0) in each STA course.
- A minimum 2.0 average is required in all computer science and mathematics courses that count toward a statistics major.
- Co-op or internship credit cannot be used in this major.
- Students should consult with a departmental advisor.
- Courses designated in 1 (General Education Program) and 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 +3 hrs)
Note: Certain courses must be selected in the GEP for this major bringing the total hours to more than 36
A. Communication Foundations 9 hrs
   B. Cultural and Historical Foundations 9 hrs
   C. Mathematical Foundations 7 hrs
      Select MAC 2311
      Select STA 2023
      Select MAC 2311
      Select CHM 2045C
      Select PHY 2053
      Select BSC 2010C
      *CHM 2045C plus CHM 2041C can substitute for CHM 2045C
   D. Social Foundations 6 hrs
   E. Science Foundations 8 hrs
      Select PHY 2053C or CHM 2045C*
      Select BSC 2010C

2. Common Program Prerequisites (7 hrs)
   COP 3502C* Computer Science I 3 hrs
   MAC 2311 Calculus with Analy Geo I GEP
   MAC 2312 Calculus with Analy Geo II 4 hrs
   BSC 2010C* Biology I GEP
   *See Transfer Notes for possible substitutes

3. Core requirements (51 hrs)
   STA 2023 Statistical Methods I GEP
   STA 4102 Computer Process of Stat Data 3 hrs
   STA 4163 Statistical Methods II 3 hrs
   STA 4164 Statistical Methods III 3 hrs
   STA 4321 Statistical Theory I 3 hrs
   STA 4322 Statistical Theory II 3 hrs
   COT 4500 Numerical Calculus 3 hrs
   MAC 2313 Calculus with Analy Geo III 4 hrs
   ENC 3241 Writing for the Tech Professional 3 hrs
   CHM 2045C or PHY 2053C GEP
   COP 3223* Intro to Programming in C* 3 hrs

*May substitute an approved programming language course

a. Select one course 4 hrs
   MAS 3105 Linear Algebra
   MAS 3106 Linear and Matrix Algebra

b. Select one course 3 hrs
   COT 3100C Introduction to Discrete Structure
   MHF 3302 Logic and Proof in Mathematics

c. Select three from among the following 9 hrs
   STA 3096 Statistical Graphics
   STA 4173 Biostatistical Methods
   STA 4222 Sample Survey Methods
   STA 4502 Nonparamatic Stat Methods
   STA 4504 Categorical Data Analysis
   STA 4664 Statistical Quality Control
   STA 4852 Applied Time Series

- Select a third science course and associated lab 4 hrs
  BSC 2010C Biology II (PR: BSC 2010C)
  CHM 2045C Chemistry Fundamentals I (if not taken in GEP)
  CHM 2046 & 2046L Chemistry Fundamentals II & Lab (PR: CHM 2045C)
  PHY 2053C College Physics I (if not taken in GEP)
  PHY 2053C College Physics II (PR: PHY 2053C)
  *CHM 2040C plus CHM 2041C can substitute for CHM 2045C

d. Select one course 3 hrs
   Select any science course from the College of Arts & Humanities or the College of Sciences or any 3000-4000 level science course from either the College of Health & Public Affairs or the Burnett College of Biomedical Sciences

4. Restricted Electives (6 hrs)
   - Select from upper division or graduate statistics (e.g., STA 5205, STA 5825), mathematics, or computer science courses
   - Selected courses in engineering or business may be used but must first be approved by the Statistics Department
   - The following cannot be used: MAC 2233, MAC 2253, MAC 2254, all MAE courses, and MHF 4404

5. Departmental Exit Requirements
   - Earn a grade of “C” (2.0) or better in each STA course
   - Take SOA Exam P (Probability)
   - Computer Competency met by STA 4102
   - Before applying to graduate, the CLAST must be completely satisfied.

6. Foreign Language Requirements (0-8 hrs)
   - Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   - Graduation: none

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

8. University Minimum Exit Requirements
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed (Note: Statistics majors may count MAC 2313 as upper division credit.)
   - 30 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required 120 hrs

Related Programs: Mathematics, Mathematics Education, Actuarial Science Track
Related Minors: Statistics, Mathematics

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

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- COP 3502C: any COP programming language course. However, COP 3502C is a prerequisite for Computer Sciences courses and may need to be taken.
- BSC 2010C: any laboratory BSC, CHM, or PHY course. However this is a prerequisite for BSC 2011C and will need to be taken.

Suggested Plan of Study:
The following is one of numerous possible plans of study. Consult a departmental advisor for alternate, new or more appropriate selections.

### Summer

Math test See catalog

### Freshman Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
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<tbody>
<tr>
<td>BSC 2010C Biology I</td>
<td>ENC 3102 Composition II</td>
</tr>
<tr>
<td>ENC 1101 Composition I</td>
<td>PHY 2053C College Physics I</td>
</tr>
<tr>
<td>MAC 2311 Calc Anal Geo I</td>
<td>STA 2023 Stat Methods I</td>
</tr>
<tr>
<td>MUL 2010* req# 1B2-GEP</td>
<td>MAC 2312 Calc Anal Geo II</td>
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### Sophomore Year

<table>
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<th>Fall</th>
<th>Spring</th>
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<tbody>
<tr>
<td>AMH 2010* req# 1B1-GEP</td>
<td>COP 3223 Intro to Prog C</td>
</tr>
<tr>
<td>ARH 2050* req# 1B3-GEP</td>
<td>STA 4164 Stat Methods III</td>
</tr>
<tr>
<td>POS 2041* req# 1D1-GEP</td>
<td>MAS 3105* req 3c-Core</td>
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<tr>
<td>MAC 2313 Calc Anal Geo III</td>
<td>PHY 2054C College Physics II</td>
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<tr>
<td>STA 4163 Stat Methods II</td>
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### Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>COP 3502C Computer Science I</td>
<td>ENC 3241 Wr the Tech Prof</td>
</tr>
<tr>
<td>STA 4321 Stat Theory I</td>
<td>STA 4322 Stat Theory II</td>
</tr>
<tr>
<td>COP 3100C* req# 3b-Core</td>
<td>STA 4222* req# 3c-Core</td>
</tr>
<tr>
<td>STA 4664* req# 3c-Core</td>
<td>BSC 2011C* req# 3e-Core</td>
</tr>
<tr>
<td>STA 4133* req# 4-ResEle</td>
<td>Elective* Check restrictions</td>
</tr>
</tbody>
</table>

### Senior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>Spring</th>
</tr>
</thead>
<tbody>
<tr>
<td>COT 4500 Numerical Calculus</td>
<td>PSY 2012* req# 1D2-GEP</td>
</tr>
<tr>
<td>STA 4102 Comp Orc of Stat</td>
<td>SPC 1016* req# 1A3-GEP</td>
</tr>
<tr>
<td>STA 4502* req# 3c-Core</td>
<td>Elective* Check restrictions</td>
</tr>
<tr>
<td>STA 4130* req# 4-ResEle</td>
<td>Elective* Check restrictions</td>
</tr>
<tr>
<td>Elective* Check restrictions</td>
<td>Take SOA EXAM</td>
</tr>
</tbody>
</table>

### TECHNICAL EDUCATION AND INDUSTRY TRAINING (B.S.)

#### College of Education


Program Coordinator: Jo Ann M. Whiteman, ED 122-T, 407-823-2948, E-mail: jwhiteman@mail.ucf.edu

This program is only available online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see [http://distrib.ucf.edu/home](http://distrib.ucf.edu/home).

### Admission Requirements

- Complete the University General Education requirements or its equivalent, (i.e. an AA degree from an approved Florida community college or state university)
- Have a minimum 2.5 overall GPA
- Meet the University CLAST or CLAST alternative criteria
- Complete prerequisite courses
- Meet the Gordon Rule Requirement.

### Degree Requirements

- Students should consult with an Education advisor prior to registration.

This degree is for students in adult Technical Education and Industry Training. This degree does not lead to teacher certification at the state level.

### 1. UCF General Education Program* (36 hrs)

- A. Communication Foundation (9 hrs)
  - 1. ENC 1101 English Composition I 3 hrs
  - 2. ENC 1102 English Composition II 3 hrs
  - 3. Prefer SPC 1600 Fundamentals of Oral Communication 3 hrs
- B. Cultural-Historical Foundation (9 hrs)
  - 1. History 3 hrs
  - 2. Political Science 3 hrs
  - 3. Art History 3 hrs
- C. Mathematical Foundation (6 hrs)
  - 1. Math 3 hrs
  - 2. Statistics 3 hrs
- D. Social Foundation (6 hrs)
  - 1. Cultural-Historical Foundations Course 3 hrs
  - 2. Social Foundations Course 3 hrs
- E. Science Foundation (6 hrs)
  - 1. Physical Sciences 3 hrs
  - 2. Other Science 3 hrs

### 2. Common Program Prerequisites (9 hrs)

- EDF 2005 Introduction to Education 2 hrs
- EGD 2701 Teaching Diverse Populations 3 hrs
- EME 2040 Technology for Educators 3 hrs

### 3. Program Core Requirements (27 hrs)

- EVT 3365 Gen Method/Test Eval 3 hrs
- EVT 3062 Professional Role Voc Ed Teacher 3 hrs
- EVT 3502 Special Needs Voc Ed Students 3 hrs
- EVT 4065 Princip/Prac Technical 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 4382 Teaching Adult Learners 3 hrs

Select one:
- EVT 3312 Course Const Health Occ Ed or
- EVT 3371 Course Const Industrial Ed

### 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. Directed Field Experience (12 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.)

### 6. Directed Field Experience (12 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.)

### 6. Directed Field Experience (12 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.)
Admission Requirements

- Entrance into most theatre classes is restricted to majors.
- Exceptions must be approved by the Department.
- The departmental faculty evaluates students desiring to become BFA majors via interview, audition, or portfolio review. For complete information, contact the Department of Theatre or visit the audition site online at http://www.theatre.ucf.edu.
- An Acting candidate must be interviewed and perform two monologues of contrasting styles limited to a combined time of 3 minutes. See http://www.theatre.ucf.edu for details and to schedule an appointment.
- Design and Technology and Stage Management tracks require an interview and portfolio review. The portfolio should contain no more than fifteen examples of the student's best work representing a variety of mediums including theatre work, drawing, painting, or other related projects. Three-dimensional pieces should be submitted in photo format. Stage Management majors should prepare a prompt book for presentation at their interview. See http://www.theatre.ucf.edu for details and to schedule an appointment.
- All Acting students must submit a resume, black and white headshot, three letters of recommendation, and transcripts of previous college work at the time of audition.
- All Design and Technology and Stage Management students must submit a resume, black and white photo, three letters of recommendation, and transcripts of previous college work at the time of audition.
- All BFA students are accepted on a "Provisional" basis their first year. Faculty will evaluate their work and decide whether or not the student may continue the program at the end of the first year.
- Departmental scholarship applications are due by March 1. Students may request a scholarship application prior to their audition/interview by contacting the Assistant Director, or they may complete the application at their audition/interview.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must adopt the most current internship manual upon registration for their internship. Internship subjects are subject to departmental approval and may not be fulfilled through participating on a UCF Conservatory Theatre Production.
- Students must maintain a minimum "B" (3.0) overall Theatre GPA to continue in the major.
- Theatre grades of less than "C" (2.0) will not be counted in the major.
- Continuation in the BFA program requires positive BFA reviews by the faculty.
- Co-op credit cannot be used in this major.
- Students must consult with a departmental advisor before registering each semester.
- Departmental Residency Requirement consists of 60 semester hours of courses taken from the UCF Theatre Department.
- Prior to graduation, all BFA acting majors (including transfers) must participate in at least 4 productions in addition to their Technical Theatre Production Lab. At least one participation credit must be an acting role, one must be a design or technical direction elective course following the completion of four years of study.
- Students who change degree programs and select this major must adopt the most current catalog.
- Prior to graduation, all BFA acting majors (including transfers) must participate in at least 5 productions in addition to their Stagecraft I and II Labs. At least two participation credits must be as a department head, stage manager, assistant stage manager, designer, or other high-level production role. The other three credits can be a combination of shop assignments, run crew, front of house, or department head.
- Theatre Management majors can use performance assignments for participation assignments.
- All BFA acting majors are required to audition for all Fall and Spring productions and must accept the roles assigned.
- Due to the conservatory nature, the BFA demands a closely integrated four-year curriculum. Although the BFA program is not designed for transfer students, transfer students may audition and be admitted, but they should consult with the Theatre Department's Undergraduate Coordinator to evaluate their transfer credits and to determine the length of their program of study. We encourage any student wishing to transfer to complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/ Community College System.
- Design and Technology Students are required to take ARH 2051 as part of their GEP and are strongly encouraged to take ARH 2050 as an elective as early in their academic career as possible. Transfer students who have not completed ARH 2051 must complete the course at UCF.
- Design and Technology Students are required to take at least two design or technical direction elective courses following the completion of Scenario.
- All BFA Theatre majors who participate in production work must be registered for the appropriate Theatre Participation course. Students need not take additional hours to satisfy practicum requirements. Once students have completed their production participation requirements, they may register for a "0" credit participation course to meet departmental registration requirements. The department will accept one credit of Theatre Participation coursework for students transferring into the program.
- Courses designated 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

UCF Degree Programs

<table>
<thead>
<tr>
<th>Fall</th>
<th>(12 or 16 hrs)</th>
<th>Spring</th>
<th>(12 or 16 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EDF 2005 Introduction to Education</td>
<td>3</td>
<td>EDD 2701 Teaching Diverse Pop</td>
<td>3</td>
</tr>
<tr>
<td>EME 2040 Technology for Educators</td>
<td>3</td>
<td>Science Foundations Course</td>
<td>3</td>
</tr>
<tr>
<td>Science Foundations Course</td>
<td>3</td>
<td>Technical Specialization Course</td>
<td>3</td>
</tr>
<tr>
<td>Technical Specialization Course</td>
<td>3</td>
<td>Technical Specialization Course</td>
<td>3</td>
</tr>
<tr>
<td>Foreign Lang Course (if needed)</td>
<td>4</td>
<td>Foreign Lang Course (if needed)</td>
<td>4</td>
</tr>
<tr>
<td>Summer</td>
<td>(6 hrs)</td>
<td>EVT 3502 Special Needs Voc Ed Student</td>
<td>3</td>
</tr>
<tr>
<td>EVT 3312 Course Const Health Occ Ed or EVT 3371 Course Const Industrial Ed</td>
<td>3</td>
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Junior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>(15 hrs)</th>
<th>Spring</th>
<th>(15 hrs)</th>
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</thead>
<tbody>
<tr>
<td>EVT 3365 Gen Method/Test Eval</td>
<td>3</td>
<td>EVT 3062 Prof Role Voc Ed Teacher</td>
<td>3</td>
</tr>
<tr>
<td>Technical Specialization Course</td>
<td>3</td>
<td>Technical Specialization Course</td>
<td>3</td>
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<tr>
<td>Technical Specialization Course</td>
<td>3</td>
<td>Technical Specialization Course</td>
<td>3</td>
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<tr>
<td>Technical Specialization Course</td>
<td>3</td>
<td>Technical Specialization Course</td>
<td>3</td>
</tr>
<tr>
<td>Summer</td>
<td>(6 hrs)</td>
<td>EVT 4065 Princip/Prc Technical Ed</td>
<td>3</td>
</tr>
<tr>
<td>EVT 4169 Curr Dev of Ind Training</td>
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<td></td>
</tr>
</tbody>
</table>

Senior Year

<table>
<thead>
<tr>
<th>Fall</th>
<th>(12 hrs)</th>
<th>Spring</th>
<th>(12 hrs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADE 4382 Teaching Adult Learners</td>
<td>3</td>
<td>EVT 4941</td>
<td>3</td>
</tr>
<tr>
<td>EVT 4368 Adv Teach/Tech in Voc Ed</td>
<td>3</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Upper Division Elective</td>
<td>3</td>
<td>Upper Division Elective</td>
<td>3</td>
</tr>
<tr>
<td>It is highly recommended that students seeking State certification pass the GKT. See advisor for further details.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

THEATRE (B.F.A.)

College of Arts and Humanities
Department of Theatre, UTC 180, 407-823-2862
http://www.theatre.ucf.edu
Acting: Be Boyd, 407-823-0872, E-mail: bbboyd@mail.ucf.edu
Design & Technology and Stage Management: Bert Scott, 407-823-3636, E-mail: hscott@mail.ucf.edu

The Bachelor of Fine Arts Degree is offered for students who, upon graduation, plan to pursue a specialized career in professional theatre. It provides the student with a very structured and intensive career preparation in either Acting, Stage Management, or Design and Technology. This BFA is also an excellent degree for students who are interested in pursuing graduate studies in theatre. Work within the BFA program requires energy and dedication; therefore, other part-time study or outside employment is generally impossible. BFA standards are high, both for admission and for continuation in the program. Casting, crew, and design assignments are regulated to serve the artistic growth of students coordinating production experience with classroom exploration.

Admission Requirements

- Entrance into most theatre classes is restricted to majors.
- Exceptions must be approved by the Department.
- The departmental faculty evaluates students desiring to become BFA majors via interview, audition, or portfolio review. For complete information, contact the Department of Theatre or visit the audition site online at http://www.theatre.ucf.edu.
- An Acting candidate must be interviewed and perform two monologues of contrasting styles limited to a combined time of 3 minutes. See http://www.theatre.ucf.edu for details and to schedule an appointment.
- Design and Technology and Stage Management tracks require an interview and portfolio review. The portfolio should contain no more than fifteen examples of the student's best work representing a variety of mediums including theatre work, drawing, painting, or other related projects. Three-dimensional pieces should be submitted in photo format. Stage Management majors should prepare a prompt book for presentation at their interview. See http://www.theatre.ucf.edu for details and to schedule an appointment.
- All Acting students must submit a resume, black and white headshot, three letters of recommendation, and transcripts of previous college work at the time of audition.
- All Design and Technology and Stage Management students must submit a resume, black and white photo, three letters of recommendation, and transcripts of previous college work at the time of interview.
- All BFA students are accepted on a "Provisional" basis their first year. Faculty will evaluate their work and decide whether or not the student may continue the program at the end of the first year.
- Departmental scholarship applications are due by March 1. Students may request a scholarship application prior to their audition/interview by contacting the Assistant Director, or they may complete the application at their audition/interview.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students must adopt the most current internship manual upon registration for their internship. Internship subjects are subject to departmental approval and may not be fulfilled through participating on a UCF Conservatory Theatre Production.
- Students must maintain a minimum "B" (3.0) overall Theatre GPA to continue in the major.
- Theatre grades of less than "C" (2.0) will not be counted in the major.
- Continuation in the BFA program requires positive BFA reviews by the faculty.
- Co-op credit cannot be used in this major.
- Students must consult with a departmental advisor before registering each semester.
- Departmental Residency Requirement consists of 60 semester hours of courses taken from the UCF Theatre Department.
- Prior to graduation, all BFA acting majors (including transfers) must participate in at least 4 productions in addition to their Technical Theatre Production Lab. At least one participation credit must be an acting role, one must be a design or technical direction elective course following the completion of four years of study.
- Prior to graduation, all BFA Design and Technology and Stage Management majors (including transfers) must participate in at least 5 productions in addition to their Stagecraft I and II Labs. At least two participation credits must be as a department head, stage manager, assistant stage manager, designer, or other high-level production role. The other three credits can be a combination of shop assignments, run crew, front of house, or department head. Stage Management majors can use performance assignments for participation assignments.
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- Due to the conservatory nature, the BFA demands a closely integrated four-year curriculum. Although the BFA program is not designed for transfer students, transfer students may audition and be admitted, but they should consult with the Theatre Department's Undergraduate Coordinator to evaluate their transfer credits and to determine the length of their program of study. We encourage any student wishing to transfer to complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/ Community College System.
- Design and Technology Students are required to take ARH 2051 as part of their GEP and are strongly encouraged to take ARH 2050 as an elective as early in their academic career as possible. Transfer students who have not completed ARH 2051 must complete the course at UCF.
- Design and Technology Students are required to take at least two design or technical direction elective courses following the completion of Scenario.
- All BFA Theatre majors who participate in production work must be registered for the appropriate Theatre Participation course. Students need not take additional hours to satisfy practicum requirements. Once students have completed their production participation requirements, they may register for a "0" credit participation course to meet departmental registration requirements. The department will accept one credit of Theatre Participation coursework for students transferring into the program.
- Courses designated 2 (Common Program Prerequisites) are usually completed in the first 60 hours.
Courses designated 1 (General Education Program) are taken throughout all four years.

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural and Historical Foundations
     - Select one course from 1.B.1 list 3 hrs
     - Select THE 2020 Survey of Theatre for Majors 3 hrs
   - C. Mathematical Foundations
     - Design and Technology Students - Select ARH 2051 (History of Western Art II) 3 hrs
   - D. Social Foundations 6 hrs
   - E. Science Foundations 6 hrs
   - F. Science Foundations

2. Common Program Prerequisites (18 hrs)
   - THE 2020* Survey of Theatre for majors GEP
   - THE 2304 Script Analysis
   - THE 2090L* Theatre Participation – Management I 1 hr
   - TPA 2290L* Theatre Participation - Production I 1 hr
   - TPP 2210L* Theatre Participation - Performance I 1 hr
   - TPP 2210 Technical Theatre Production and 1 hr
   - TPP 2201 Technical Theatre Production LAB 1 hr
   - Select STA 1060C Statistics Using Excel (may substitute a higher level math) 3 hrs
   - Select MGF 1106 Finite Mathematics (History of Western Art II) 3 hrs
   - Design and Technology Students - Select ARH 2051 3 hrs
   - TPP 3230C Costumes, Architecture and Decor History I 3 hrs
   - TPP 3245L Stage Management 6 hrs
   - TPP 4940 Theatre Internship 6 hrs
   - TPP 4293L Theatre Participation – Production II 1 hr
   - TPP 3221C Lighting Design for Theatre I or 2 hrs
   - TPP 3260C Sound Design for Theatre I 3 hrs
   - TPP 3221D Stage Management I or 2 hrs

3. Core Requirements (12 hrs)
   - TPA 2100C Acting I - Introduction CPP
   - THE 3311 Theatre History and Dramatic Literature I 3 hrs
   - THE 3312 Theatre History and Dramatic Literature II 3 hrs
   - THE 3313 Theatre History and Dramatic Literature III 3 hrs
   - THE 2304 Script Analysis
   - THE 2090L Theatre Participation – Management I 3 hrs
   - TPA 2290L Theatre Participation - Production I 3 hrs
   - TPP 2190L Theatre Participation - Performance I 3 hrs
   - TPP 3102C Directing I 3 hrs

4. A. Specialization: select one area (63 hrs)
   - Acting Specialization
     - TPA 2201 Technical Theatre Production CPP
     - TPA 2210 Technical Theatre Production LAB CPP
     - TPA 2170C Acting II – The Actor Prepares CPP
     - DAA 2200C Ballet I 2 hrs
     - TPP 2210C Voice Production I CPP
     - TPP 3172C Acting II – Building the Character 3 hrs
     - TPP 3150C Movement for the Actor I 2 hrs
     - TPP 3151C Movement for the Actor II 2 hrs
     - TPP 3512C Stage Combat 2 hrs
     - TPP 3257C Music Theatre Voice I 2 hrs
     - TPP 3258C 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 – Creating the Role 3 hrs
     - TPP 4142C Acting V – Verse 3 hrs
     - TPP 4265C Acting VI for TV/Film 3 hrs
     - TPP 4268C Acting VII for TV/Film 3 hrs
     - TPP 4531C Period Movement 2 hrs
     - TPP 4940L Theatre Internship 6 hrs
     - TPP 2400C Makeup Techniques CPP
     - TPP 4223C Theatre Careers for Performance 3 hrs
     - DAA 2570C Jazz Dance I or 2 hrs
     - DAA 2100C Modern Dance I 2 hrs
     - TPA 4930L or – THE 4030L – or – TTP 4193L 1 hr
     - Restricted electives (see list of courses) 13 hrs
   - Stage Management Specialization
     - TPA 2210 Stagecraft I CPP
     - TPA 2210L Stagecraft I LAB 1 hr
     - TPA 2211 Stagecraft II CPP
     - TPA 2211L Stagecraft II LAB 1 hr
     - TPA 4293L Theatre Participation – Production II 1 hr
     - THE 4093L Theatre Participation – Management I 1 hr
     - THE 4400L Theatre Management 3 hrs
     - TPP 2170C Acting I – The Actor Prepares 3 hrs
     - TPP 2200C Theatre Design Basics CPP
     - TPP 2010C Scenography
     - TPA 2220C Stage Electronics 3 hrs
     - TPA 2230 Stage Management Basics CPP
     - TPA 3601 Stage Management 3 hrs
     - TPA 4602 Advanced Stage Management 3 hrs
     - TPA 3221C Lighting Design for Theatre I or 3 hrs
     - TPA 3260C Sound Design for Theatre I 3 hrs

5. Design and Technology Specialization
   - ARH 205L Art History II GEP
   - TPA 2210 Stagecraft I CPP
   - TPA 2210L Stagecraft I LAB 1 hr
   - TPA 2211L Stagecraft II LAB 1 hr
   - TPA 2220C Stage Electronics CPP
   - TPA 2493L Theatre Participation – Production II 2 hrs
   - TPP 4293L Theatre Participation – Production II 2 hrs
   - TPP 4293L Theatre Participation – Production II 2 hrs
   - TPP 4293L Theatre Participation – Production II 2 hrs
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   - TPP 4293L Theatre Participation – Production II 2 hrs
   - TPP 4293L Theatre Participation – Production II 2 hrs
   - TPP 4293L Theatre Participation – Production II 2 hrs

4B. Restricted Electives
   - (except where required by a specialization - see specializations for credit hours)
   - THE 2301 Cultural Diversity in Theatre 3 hrs
   - THE 4093L Theatre Participation – Management II 1 hr
   - THE 3240 Musical Theatre Survey 3 hrs
   - THE 5307 Contemporary Theatre 3 hrs
   - TPP 3077C Scene Painting 2 hrs
   - TPP 3333C Topics in Technical Theatre 2 hrs
   - TPP 3061C Scene Design for Theatre I 3 hrs
   - TPP 3061C Scene Design for Theatre II 3 hrs
   - TPP 3040C Costume Design for Theatre I 3 hrs
   - TPP 3221L Light Design for Theatre I 3 hrs
   - TPP 3260L Sound Design for Theatre I 3 hrs
   - TPP 4041C Costume Design for Theatre II 3 hrs
   - TPP 4224C Lighting Design for Theatre II 3 hrs
   - TPP 4264C Sound Design for Theatre II 3 hrs
   - TPP 4384C Advanced Topics in Technical Theatre 3 hrs
   - TPP 3195L Summer Theatre Studio/Geography/Design I 3 hrs
   - TPP 3197L Summer Theatre Studio/Geography/Design II 3 hrs
   - TPA 2600 Stage Management Basics 3 hrs
   - TPA 3001L Stage Management 3 hrs
   - TPA 4293L Theatre Participation – Production II 1 hr
   - TPP 3197L Summer Theatre Performance 3 hrs
   - TPP 3952L Summer Studio Performance 3 hrs
   - TPA 4284 Costumes, Architecture and Decor History I 3 hrs
   - TPP 4285 Costumes, Architecture and Decor History II 3 hrs
   - TPP 4285 Costumes, Architecture and Decor History II 3 hrs
   - TPP 3221L Technical Theatre Production LAB 1 hr
   - TPP 3221L Technical Theatre Production LAB 1 hr
   - TPP 3401 Theatre Careers in Production 3 hrs
   - Restricted electives (see list of courses) 20 hrs

6. Departmental Exit Requirements
   - Earn a grade of “C” (2.0) or better in each Theatre course
   - Maintain a “B” Theatre GPA (3.0) or better
   - Write an Exit Exam Critique of a UCF-affiliated production and pass with a 75% or better score. Complete an Exit Survey
   - Complete 93 theatre credits in addition to the GEP for a total of 129. Courses that count in the GEP cannot also count towards
UCF Degree Programs

Admission Requirements
- Entrance into most theatre classes is restricted to majors. Exceptions must be approved by the Department.
- The departmental faculty evaluates students desiring to become majors via an interview and audition. For complete information, contact the Department of Theatre or visit the audition site online at http://www.theatre.ucf.edu.
- A candidate must present an audition consisting of one monologue and two musical selections. The entire audition should last no more than three minutes. An accompanist will be provided. Recorded accompaniment is not accepted. Candidates must also participate in a dance audition and complete a Music Skills Evaluation Survey. Visit http://www.theatre.ucf.edu for details.
- All students must submit a resume, black and white head shot, three letters of recommendation, and transcripts of previous college work at the time of interview.
- All BFA musical theatre students are accepted on a “Provisional” basis their first year. Faculty will evaluate their work and decide whether or not the student may continue the program at the end of the first year.
- Departmental scholarship applications are due by March 1. Students may request a scholarship application prior to their audition by contacting the Area Coordinator, or they may complete the application at their audition.

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must adopt the most current internship manual upon registration for their internship. Internship is subject to departmental approval and may not be fulfilled through participating on a UCF Conservatory Theatre Production.
- Students must maintain a minimum “B” (3.0) overall Theatre GPA to continue in the major.
- Theatre grades of less than “C” (2.0) will not be counted in the major.
- Continuation in the BFA program requires a positive annual BFA Review.
- Co-op cannot be used in this major.
- Students must consult with a departmental advisor every semester before registration.
- Departmental Residency Requirement consists of 60 semester hours of courses taken from the UCF Theatre Department.
- Prior to graduation, all BFA Musical Theatre majors must participate in at least 4 productions in addition to their Technical Theatre Production Lab. At least one participation credit must be an acting role, one must be a run crew, and one must be a front of house position. The fourth assignment may be in any production area.
- All BFA Musical Theatre majors are required to audition for all Fall and Spring productions and must accept the roles assigned.
- Due to its conservatory nature, the BFA demands a closely integrated four-year curriculum. Although the program is not designed for transfer students, transfer students may audition and may be admitted, but they should consult with the Department Undergraduate Coordinator to evaluate their transfer credits and to determine the length of their program of study. We encourage any student wishing to transfer to complete the General Education Program and the Common Program Prerequisites before transferring within the Florida Public University/Community College System.
- All BFA Theatre majors who participate in production work must be registered for the appropriate Theatre Participation course. Students need not take additional hours to satisfy practicum requirements. Once students have completed their production participation requirements, they may register for a “0” credit participation course to meet departmental registration requirements.
- The department will accept one credit of Theatre Participation coursework for students transferring into the program.
- Courses designated 2 (Common Program Prerequisites) are completed two years after the first 60 hours.
- Courses designated 1 (General Education Program) are taken throughout all four years.

1. UCF General Education Program (36 hrs)

A. Communication Foundations (9 hrs)
2. Common Program Prerequisites (18 hrs)

- THE 2209* Survey of Theatre for majors
- THE 2304* Script Analysis
- THE 2090L* Theatre Participation – Management I
- TPP 2290L* Theatre Participation – Production I
- TPP 2190L* Theatre Participation – Performance I
- TPA 2201L Technical Theatre Production Lab

*Plus an additional 9 hours of THE, TPA, or TPP courses.

3. Specialization: Lower Division (17 hrs)

- THE 2020* Survey of Theatre for majors
- THE 2304* Script Analysis
- THE 2090L* Theatre Participation – Management I
- TPP 2290L* Theatre Participation – Production I
- TPP 2190L* Theatre Participation – Performance I
- TPA 2201L Technical Theatre Production Lab

*See Transfer Notes for possible substitutes.

4. Specialization: Upper Division (51 hrs)

- THE 2020*: may use TPA 2200 or TPA 2210
- TPP 2090*: may use TPP 1190
- TPA 2290L*: may use TPA 1290
- THE 2020*: may use any introductory course.

5. Departmental Exit Requirements

- Honors in the Major Directed Readings and Thesis*
- Other THE, TPA, TPP, DAA or DAN courses not already required and as approved by the department requires instructor and departmental approval in advance

6. University Minimum Exit Requirements

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

Total Semester Hours Required 129 hrs

7. Electives (variable)

- Related Programs: Film, Music, Theatre Studies BA
- Related Minors: Music, Film, Theatre, Dance

8. Departmental Exit Requirements

- Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits. University minimum Upper Division credit requirement must still be met.
- Transfer students will be required to meet the departmental theatre participation requirement through participation on UCF productions.
- Courses transferred from private and out-of-state schools must be evaluated for equivalency credit. The student must provide all supporting information.

Acceptable Substitutes for common program prerequisites if taken prior to transferring to UCF:
- THE 2020: may use any introductory course.
- THE 2304: may use THE 2300
- TPP 2290L: may use TPA 1290
- TPP 2190: may use TPA 1190
- TPA 2201: may use TPA 2200 or TPA 2210

THEATRE STUDIES (B.A.)

College of Arts and Humanities

Department of Theatre, UTC 180, 407-823-2862
http://www.theatre.ucf.edu

Contact: John Shafer, 407-823-0871, E-mail: jwshafer@mail.ucf.edu

The Bachelor of Arts Degree is designed to offer a thorough foundation in theatre while providing flexibility and opportunity for interdisciplinary study with a required minor. Upon graduation, UCF students who choose to pursue further education or enter the job market with a skill set unique to their goals.

Admission Requirements

- The departmental faculty evaluates, via an interview, students who desire to become BA majors. For complete information, contact the Department of Theatre or visit the audition site online at http://www.theatre.ucf.edu.
All students must submit a three letters of recommendation, a resume, and transcripts of previous college work at the time of interview.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.

- Students are required to complete a minor to graduate.

- Students who complete a double major fulfill the minor requirement automatically.

- Students must maintain a minimum “C” (2.0) overall Theatre GPA to continue in the major.

- Co-op credit cannot be used in this major.

- Students must consult with a departmental advisor each semester before registering.

- Departmental Residency Requirement consists of at least 30 semester hours of courses taken from the UCF Theatre Department.

- Departmental Residency Requirement consists of at least 30 semester hours of courses taken from the UCF Theatre Department.

- All BA Theatre Studies students must register for, three semesters of Theatre Participation in addition to the Technical Theatre Production Lab. One of the Participation credits must be as part of a run crew. One of the Participation credits must be as part of a Front of House crew. The other participation credit can be in either performance, shop assignments, run crews or Front of House.

- All BFA Theatre majors who participate in production work must be registered for the appropriate Theatre Participation course. Students need not take additional hours to satisfy practicum requirements. Once students have completed their production participation requirements, they may register for a “0” credit participation course to meet departmental registration requirements.

- The department will accept one credit of Theatre Participation coursework for students transferring into the program.

- Courses designated in 1 (General Education Program) are usually completed in the first 90 hours.

- Courses designated in 2 (Common Program Prerequisites) are usually completed in the first 60 hours.

1. UCF General Education Program (36 hrs)

- A. Communication Foundations 9 hrs
- 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 (18 hrs)

- THE 2902 Survey of Theatre for majors GEP 3 hrs
- THE 2304 Script Analysis 3 hrs
- TPA 2200L Theatre Participation – Management I 1 hr
- TPA 2902L Theatre Participation – Production I 1 hr
- TPA 2903L Theatre Participation – Performance I 1 hr
- TPA 2904L Technical Theatre Production 2 hrs
- TPA 2905L Technical Theatre Production Lab 1 hr

3. Core requirements (12 hrs)

- TPA 2211 Fundamentals of Acting I CFP 3 hrs
- THE 2304 Script Analysis CFP 3 hrs
- THE 3311 Theatre History & Dram. Lit. I 3 hrs
- THE 3312 Theatre History & Dram. Lit. II 3 hrs
- THE 3313 Theatre History & Dram. Lit. III 3 hrs
- TPP 2700C Stage Voice/Speech CFP 3 hrs
- TPP 3310C Directing I 3 hrs

4. Restricted Electives (16 hrs)

- Select 16 hours from the following:
  - THE 3230 Cultural Diversity in Theatre 3 hrs
  - THE 3982 Theatre Careers 3 hrs
  - TPP 4143C Acting Styles 3 hrs
  - TPP 3264C Acting on Camera 3 hrs
  - THE 2025 Intro to Theatrical Design 3 hrs
  - TPP 4221 Auditioning 3 hrs
  - THE 3240 Musical Theatre Survey 3 hrs
  - THE 4093L Theatre Participation-Management II 1 hr
  - TPA 4293L Theatre Participation-Production II 1 hr
  - TPP 4193L Theatre Participation-Performance II 1 hr
  - THE 5307 Contemporary Theatre 3 hrs
  - TPA 2248C Makeup Technique 2 hrs
  - THE 3254 Costumes, Architecture, and Decor, History I 3 hrs
  - THE 3285 Costumes, Architecture, and Decor History II 3 hrs
  - TPA 3195L Summer Theatre Studio/Design I 3 hrs
  - TPA 3197L Summer Theatre Studio/Design II 3 hrs
  - TPP 3000 Stage Management Basics 3 hrs
  - TPA 4400 Theatre Management 3 hrs
  - TPA 3103 Intermediate Acting 3 hrs
  - TPA 3101L Summer Theatre/Performance 3 hrs
  - TPA 2953L Summer Studio Performance 3 hrs
  - TPP 4311C Advanced Directing 3 hrs
  - Any DAA or DAN courses with instructor and departmental approval 2-8 hrs
  - THE 3930 Independent Study 1-12 hrs
  - THE 4912 Undergraduate Research 3-6 hrs
  - THE 4954C Theatre Capstone 3 hrs

5. Departmental Exit Requirements

- Earn a grade of “C” (2.0) or better in each Theatre course.

- Write an Exit Exam Critique of a UCF-affiliated production and pass with a 75% or better score. Complete an Exit Survey.

- Computer Competency met by STA 1060C or Computer Science Course.

- Minimum of 30 theatre credits must be completed in residency at UCF.

6. Foreign Language Requirements (0-8 hrs)

Admission: Met by graduation requirement.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

7. Required Minor (18 hours minimum)

Theatre Studies BA students must complete a minor of at least 18 hours. See discipline for Minor requirements, information, and changes. University upper division credit hour requirements must be met. Students are discouraged from taking excess hours and should consider total credit hours required when selecting a minor. Students are free to pursue any minor open to them, but are encouraged to participate in the department’s Associated Minor program which provides additional career/advising support targeted at specific career paths. Please see the departmental handbook for a more complete description of the program and a list of Associated Minors. Participation in an Associated Minor must be approved after interview with the Area Coordinator of BA Theatre Studies.

8. Electives (variable)

Select 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 hrs

Related Programs: Art, Film, Music, Theatre BFA

Related Minors: Art, Music, Film, Theatre, Dance

Transfer Notes:

- Courses taken at community colleges may substitute for select Upper Division courses with permission of the department, although they will not count as Upper Division credits. University minimum Upper Division credit requirement must still be met.
- Courses transferred from private and out-of-state schools must
be evaluated for equivalency credit. The student must provide all supporting information.

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

- THE 2020: may use any introductory course.
- THE 2304 (Script Analysis): may use THE 2300 or THE 3305
- THE 2090L: may use THE 2925
- TPA 2290L: may use TPA 1290
- TPP 2190: may use TPP 1110 or THE 4093L or TPA 4293
- TPA 2201: may use TPA 2200 or TPA 2210
MINORS AND CERTIFICATES

Minors are authorized only for certification with baccalaureate degrees. Minors must be certified at the same time as the student's baccalaureate degree. Unless a second baccalaureate degree is earned, certification will not be made at a later time even if additional courses have been completed.

A student may declare a minor up to but no later than the submission of the "Intent to Graduate Form." Students are strongly urged to declare a minor as early as possible. Contact the student support office of the college offering the minor.

Minors
- Accounting
- Aerospace Studies
- African - American Studies
- Aging Studies
- American Humanities
- American Sign Language and Deaf Studies
- American Studies
- Anthropology
- Anthropology in Multicultural Studies
- Art History
- Art - Studio
- Asian Studies
- Astronomy
- Biology
- Business
- Chemistry
- Coaching
- Cognitive Sciences
- Communication Sciences & Disorders
- Community Arts - PAVE
- Computer Science
- Criminal Justice
- Dance
- Digital Media
- Early Childhood Education
- Economics
- Emergency Management & Homeland Security
- Engineering Leadership
- English - Creative Writing
- English - Linguistics
- English - Literature
- English - Technical Writing and Editing
- English - Writing
- Entrepreneurship: Business
- Environmental Studies
- European Studies
- Exceptional Education
- Film - Cinema Studies
- Finance
- Fitness Training
- French
- German
- Health Information Management
- Health Sciences
- Health Services Administration
- History
- Hospitality Management
- Humanities
- Information Technology
- Intelligent Robot Systems - Interdisciplinary
- Interdisciplinary Informatics Technology
- International and Global Studies
- International Business
- Interpersonal Communication
- Italian
- Judaic Studies
- Latin American Area Studies
- Legal Studies
- Magazine Journalism
- Management Information Systems
- Marketing
- Mass Communication
- Mathematics
- Middle Eastern Studies
- Military Science
- Molecular Biology and Microbiology
- Music
- North American Indian Studies
- Operations Management/Enterprise Systems
- Organizational Communication
- Philosophy
- Philosophy, Religion and Popular Culture
- Physics
- Political Science
- Political Science/Prelaw
- Psychology
- Public Administration
- Real Estate
- Recreation
- Religious Studies
- Secure Computing and Networks
- Social Sciences - Interdisciplinary
- Sociology
- Space Studies
- Spanish
- Sport Business Management
- Statistics
- Technical Education and Industry Training
- Technology and Society
- Theatre
- Urban and Regional Planning
- Women's Studies
- World Comparative Studies

Certificates
- Addictions Certificate
- Aging Studies Certificate
- American Sign Language Certificate
- Behavioral Forensics Certificate
- Children's Services Certificate
- Crime Analysis and Crime Mapping Certificate
- Crime Scene Investigation Certificate
- Criminal Profiling Certificate
- Cultural Tourism Certificate
- Digital Media Certificate
- Finance: Banking Certificate
- Finance: Corporate Finance Certificate
- Finance: Investments Certificate
- Judaic Studies Certificate
- Language Development and Disorders Certificate
- Marketing: Selling and Sales Management Certificate
- Marketing: Retailing Management Certificate
- Marketing: e-Marketing Certificate
- Marketing: Sport Marketing Management Certificate
- Marketing: Healthcare Marketing Certificate
- Marketing: Services Marketing Certificate
- Marketing: Entertainment Marketing Certificate
- Nonprofit Management Certificate
- Real Estate: Real Estate Brokerage Certificate
- Real Estate: Real Estate Appraisal Certificate
- Real Estate: Mortgage Brokerage Certificate
- Security Management Certificate
- Service-Learning Certificate
- Substitute Teaching
- Translation and Interpretation Certificate
- Victim Advocacy
- Women's Studies Certificate

Additional UCF Programs
Study Abroad Programs:
- Australia
- Austria
- Costa Rica
- England
- France
- Germany
- Honduras
- Ireland
- Italy
- Japan
- Mexico
- Peru
- Russia
- Scotland
- Spain
- Sweden
- Switzerland
ACCOUNTING: Minor for Business and Non-Business Majors
College of Accounting, BA 437, (407) 823-2871

Credit Hour Requirements 21 hrs
Required Courses (9 hrs)
- ACG 2021 Principles of Financial Accounting 3 hrs
- ACG 2071 Principles of Managerial Accounting 3 hrs
Select one of the following (may not be counted as an elective if selected as a required course):
- ACG 3131 Financial Accounting Concepts and Analysis 3 hrs
- ACG 3361 Intermediate Managerial Accounting 3 hrs

Restricted Electives (12 hrs)
Select four from the following (at least two courses must have either an ACG or TAX prefix):
- ACG 3131 Financial Accounting Concepts and Analysis 3 hrs
- ACG 3361 Intermediate Managerial Accounting 3 hrs
- ACG 3141 Intermediate Financial Accounting 3 hrs
- ACG 3501 Accounting and Auditing in the Public Sector 3 hrs
- ACG 4401C Accounting Information Systems 3 hrs
- ACG 4651 Auditing 3 hrs
- ACG 4671 Internal Auditing 3 hrs
- ACG 4932 Approved Special Topics Courses in Accounting 3 hrs
- TAX 4001 Taxation of Business Entities and Transactions 3 hrs
- FIN 3414 Intermediate Corporate Finance 3 hrs
- FIN 4453 Financial Models 3 hrs
- ISM 3253 MIS Techniques 3 hrs
- ISM 4212 Database Management Systems 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 from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- 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.

AFRICAN-AMERICAN STUDIES: Minor
College of Arts and Humanities
African American Studies Program, CNH 201G
http://www.cas.ucf.edu/africanamericanstudies
Contact: J. Stephenson, 407-823-0026
The African American Studies minor is designed to complement a student’s major area of study. The minor requires a core of African American Studies courses as well as a selection of directed electives in Fine Arts, History, English, Modern Languages, Music, Literatures, Political Science, Psychology, Sociology, Anthropology, Film, and Theatre.

Credit hour Requirements 18 hrs
Required Courses (6 hrs)
- AFA 3104 The African American Experience 3 hrs
- AMH 3571 Black American History I 3 hrs

Restricted Electives (12 hrs)
Select one of the following (may not be counted as an elective if selected as a required course):
- AFA 3101T Introductory Perspectives on African American Studies 3 hrs
- AFA 2300 African American Music 3 hrs
- AFA 3955 Study Abroad in the Caribbean 3 hrs
- AMH 3572 Black American History II 3 hrs
- AML 3614 Topics in African-American Literature 3 hrs
- AML 3615 Harlem, Haiti, & Havana 3 hrs
- ARH 3520 African Art 3 hrs
- INR 3253 International Politics of Africa 3 hrs
- FIL 3412 Black Cinema 3 hrs
- LAH 3470 History of the Caribbean 3 hrs
- LAS 4023 Afr Caribbean Experience 3 hrs
- LIT 3192 Caribbean Literature 3 hrs
- MUL 2016 Evolution of Jazz 3 hrs
- POS 4622 Politics & Civil Rights 3 hrs
- PUP 3314 Minorities in American Politics 3 hrs
- SOP 3724 The Psychology of Racial Prejudice 3 hrs
- SYD 3700 Race and Ethnic Minorities in the U.S. 3 hrs

Additional courses may be used only with the prior permission of the program director.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without the approval of the program coordinator.

AEROSPACE STUDIES: Minor
College of Engineering and Computer Science
Air Force ROTC, TR 501 103
Contact: Col. William G. Palmby, 407-823-1247

Credit Hour Requirements 16 hrs
Required Courses (16 hr)
- APR 1101C The Air Force Today I 1 hr
- APR 1111C The Air Force Today II 1 hr
- APR 2130C The Development of Air Power I 1 hr
- APR 2131C The Development of Air Power II 1 hr
- APR 3220C Air Force Leadership and Management I 3 hrs
- APR 3230C Air Force Leadership and Management II 3 hrs
- APR 4201C Nat Scry Affairs & Prep for Active Duty I 3 hrs
- APR 4210C Nat Scry Affairs & Prep for Active Duty II 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-“ (1.75) are not accepted.
- At least 12 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

AGING STUDIES: Minor
College of Health and Public Affairs
School of Social Work, HPA 204
E-mail: socialwk@mail.ucf.edu
BSW Coordinator: HPA 204, 407-823-2114

In recognition of the special needs of older adults in 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. Students may complete the Aging Studies minor (with the exception of the internship requirement) as a fully web-based program. Students must contact the coordinator to plan their internship the semester prior to the semester they intend to complete the internship.

Credit Hour Requirements 18 hrs
Required Courses (3 hrs)
- GEY 3001W Gerontology: Interdisciplinary Overview 3 hrs

Required Internship: 120 hours
Select one:
- SOW 4510 Field Education 9 hrs
- HSA 4941 Internship 3 hrs
- PSY 3951 Internship 3 hrs
- SYP 4941 Internship 3 hrs

Electives (12 hrs)
Students select four additional courses from the following: A maximum of two courses in their College and at least two courses must be outside their college.
College of Health and Public Affairs

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA 4220</td>
<td>Long Term Care</td>
<td>3</td>
</tr>
<tr>
<td>HSA 3222</td>
<td>Long Term Administration</td>
<td>3</td>
</tr>
<tr>
<td>HSC 4564</td>
<td>Health Care Needs of the Elderly</td>
<td>3</td>
</tr>
<tr>
<td>NUR 4286*</td>
<td>Gerontologic Nursing</td>
<td>3</td>
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<tr>
<td>PLA 4530</td>
<td>Legal Issues of the Elderly</td>
<td>3</td>
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<tr>
<td>SOW 4645</td>
<td>Social Services for the Elderly</td>
<td>3</td>
</tr>
<tr>
<td>DEP 3464</td>
<td>Psychology of Aging</td>
<td>3</td>
</tr>
<tr>
<td>SYP 4730</td>
<td>Sociology of Aging</td>
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<tr>
<td>GEY 5007</td>
<td>Women and Aging</td>
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<tr>
<td>LIT 3930</td>
<td>Literature of Aging</td>
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<tr>
<td>SYP 4734</td>
<td>Minority Aging</td>
<td>3</td>
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</table>

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C" (2.0) 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
College of Health and Public Affairs
E-mail: ahminor@mail.ucf.edu

Campus Director: Stephanie Krick, MPA, ABD, 407-823-0661

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 will result in a National Certification in American Humanics Academic Program. Requirements for the minor are the same as for national certification.

Credit Hour Requirements

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PAD 3931</td>
<td>American Humanics Human Service Workshop</td>
<td>3</td>
</tr>
<tr>
<td>PAD 4948</td>
<td>American Humanics Internship</td>
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<tr>
<td>*SOW 3203</td>
<td>Social Welfare and Community Resources</td>
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<tr>
<td>*SOW 3104</td>
<td>Assessing I: Human Development</td>
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<tr>
<td>DEP 2004</td>
<td>Developmental Psychology</td>
<td></td>
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<tr>
<td>PPE 3903</td>
<td>Personality Theory</td>
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<tr>
<td>DEP 3464</td>
<td>Psychology of Aging</td>
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**Group I: General Nonprofit Management, Volunteerism**

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<tr>
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<th>Course Title</th>
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<tbody>
<tr>
<td>EDG 4941</td>
<td>Directed Field Experience</td>
<td>3</td>
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<tr>
<td>PAD 4144</td>
<td>Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>PAD 4148</td>
<td>Volunteer Management</td>
<td>3</td>
</tr>
<tr>
<td>*SOW 3203</td>
<td>Social Welfare and Community Resources</td>
<td>3</td>
</tr>
<tr>
<td>*SOW 3104</td>
<td>Assessing I: Human Development</td>
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<tr>
<td>DEP 3464</td>
<td>Psychology of Aging</td>
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**Group II: Planning & Evaluation and Human Resource Development**

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<th>Course Title</th>
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<tr>
<td>PAD 4144</td>
<td>Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>PAD 4153</td>
<td>Strategic Planning &amp; Implementation</td>
<td>3</td>
</tr>
<tr>
<td>PAD 4325</td>
<td>Program Evaluation for the Public and Nonprofit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>PAD 4414</td>
<td>Human Resource Management</td>
<td>3</td>
</tr>
<tr>
<td>*SOW 3401</td>
<td>Social Work Research Methods</td>
<td>3</td>
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<tr>
<td>MAN 3025</td>
<td>Management of Organizations</td>
<td>3</td>
</tr>
<tr>
<td>MAN 3031</td>
<td>Human Resource Management</td>
<td>3</td>
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<tr>
<td>MAN 4011</td>
<td>Human Relations in Management</td>
<td>3</td>
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<tr>
<td>MAN 4320</td>
<td>Human Resources, Recruitment &amp; Selection</td>
<td>3</td>
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**Group III: Communication & Marketing**

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<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PAD 4144</td>
<td>Nonprofit Organizations</td>
<td>3</td>
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<tr>
<td>*SOW 3352</td>
<td>Practice II: Interpersonal Skills</td>
<td>3</td>
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<tr>
<td>COM 3110</td>
<td>Business &amp; Professional Communications</td>
<td>3</td>
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<tr>
<td>GEB 3031</td>
<td>The Cornerstone Course</td>
<td>4</td>
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<tr>
<td>MAR 3023</td>
<td>Marketing</td>
<td>4</td>
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<tr>
<td>MAR 3641</td>
<td>Marketing Intelligence</td>
<td>3</td>
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<tr>
<td>MAR 4803</td>
<td>Marketing Management</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other Requirements**

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than "C" (2.0) 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.

**Public Affairs Electives**

Choose at least two from the following

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>PAD 4011</td>
<td>Non-Profit Organizations</td>
<td>3</td>
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<tr>
<td>PAD 4147</td>
<td>Resource Development in the Nonprofit Sector</td>
<td>3</td>
</tr>
<tr>
<td>PAD 4204</td>
<td>Fiscal Management</td>
<td>3</td>
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<tr>
<td>PAD 4255</td>
<td>Program Evaluation for the Public and Non-Profit Organizations</td>
<td>3</td>
</tr>
<tr>
<td>PAD 4258</td>
<td>Volunteer Management</td>
<td>3</td>
</tr>
<tr>
<td>PAD 4253</td>
<td>Community &amp; Economic Development</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other Requirements**

- Attendance at one national American Humanics Management Institute (additional fees).
- Membership in UCF American Humanics Student Association.

**AMERICAN SIGN LANGUAGE AND DEAF STUDIES: Minor**

College of Health and Public Affairs
Department of Communication Sciences and Disorders, HPA2, Suite 101
http://www.cohpa.ucf.edu/comdis

Chair: R. Jane Lieberman, 407-823-4798; Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798, E-mail: jschwart@mail.ucf.edu

The American Sign Language and Deaf Studies Minor addresses a growing interest in Deaf culture in the United States. Through the minor students not only acquire a non-Indo European, second language that they may use to communicate with the Deaf community, but they also discover a rich and complex cultural group. The minor is available to students in all disciplines who would find it a useful addition to their major, in particular those majoring in liberal studies, education, criminal justice, health professions, social work, psychology, sociology, and interpersonal and organizational communication. Additionally, a minor in American Sign Language and Deaf Studies will serve as a valuable confirmation for employers and graduate schools of a student’s specialized knowledge and as a foundation for future study in interpreter or deaf education.

Credit Hour Requirements

**Required Courses**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
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</thead>
<tbody>
<tr>
<td>SPA 2631</td>
<td>Issues in Deafness</td>
<td>3</td>
</tr>
<tr>
<td>SPA 2612</td>
<td>Introduction to American Sign Language</td>
<td>3</td>
</tr>
<tr>
<td>SPA 2613</td>
<td>Intermediate American Sign Language</td>
<td>4</td>
</tr>
<tr>
<td>SPA 4614C</td>
<td>American Sign Language III</td>
<td>4</td>
</tr>
<tr>
<td>SPA 4615</td>
<td>American Sign Language IV</td>
<td>4</td>
</tr>
<tr>
<td>SPA 4634</td>
<td>Educational Implications of Deafness</td>
<td>3</td>
</tr>
</tbody>
</table>

**Other Requirements**

- A minimum of "C-" (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the minor.
- At least 12 hours used in the minor must be earned at UCF with the Department of Communication Sciences and Disorders.
- No credit by exam (TSD, Military credit), Independent Study credit may be used toward the minor.
AMERICAN STUDIES: Minor
College of Arts and Humanities
http://www.cas.ucf.edu
Contact: Consuelo Stebbins, 407-823-2292, E-mail: stebbins@mail.ucf.edu

Credit Hour Requirements 21 hrs
Required Courses (9 hrs)
Select one course in each of the three categories below

Literature and Humanities
AML 2911 American Literature I
AML 4101 American Novel
AML 4261 Literature of the South
AML 3682 Ethnic Literature in America

Social Sciences
POS 3413 The American Presidency
POT 3204 American Political Thought
SYD 3700 Race and Ethnic Minorities in the U.S.
SYP 3630 Sociology of Popular Culture

History
ANH 3561 Women in American History I
ANH 4110 Colonial America, 1607-1763
ANH 4130 The Age of the American Revolution
ANH 4311 American Culture I
ANH 4313 American Culture II

Restricted Electives (12 hrs)
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 courses.
- 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 Sciences
Department of Anthropology, PH 309
http://www.cos.ucf.edu/anthropology
E-mail: anthropology@ucf.edu
Contact: A. Chase, 407-823-2227

The Anthropology minor develops a student’s holistic understanding of the past and present human condition. Four different concentrations are delimited within the Anthropology minor.

Credit Hour Requirements 18 hrs

A. Concentration in General Anthropology
The following 2000 level courses must be taken:
(12 hrs)
ANT 2000 General Anthropology
ANT 2100 Archaeology & Rise of Human Culture
ANT 2410 Cultural Anthropology
ANT 2511 The Human Species

Select two upper level (3000-5000) courses in Anthropology (6 hrs)

B. Concentration in Archaeology
The following 2000 level courses must be taken:
(6 hrs)
ANT 2000 General Anthropology
ANT 2100 Archaeology & Rise of Human Culture

Select from the following:
(12 hrs)
ANT 4101 Archaeological Sciences (or ANG 5100)
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 3164 Ancient Incas
ANT 3168 Maya Archaeology (or ANG 6168)
ANT 4184 Mortuary Archaeology (or ANG 5741)
ANT 3358 Life and Death in Ancient Egypt
ANT 4144 Prehistory of North America
ANT 4153 North American Archaeology
ANT 4180C Seminar in Laboratory Analysis (or three 1 hr labs)
ANT 4824 Advanced Archaeological Field Work

ANG 5165 Maya Field Research
ANG 5166 Problems of Maya Studies
ANG 5167 Maya Hieroglyphs
ANG 5228 Maya Iconography

C. Concentration in Physical Anthropology
The following 2000 level courses must be taken:
(6 hrs)
ANT 2000 General Anthropology
ANT 2511 The Human Species

Take four of the following courses:
(12 hrs)
ANT 4161 Biobehavioral Anthropology
ANT 3550 Primatology
ANT 4521C Forensic Anthropology
ANT 4467 Nutritional Anthropology (or ANG 5467)
ANT 4516 Human Biological Diversity
ANT 4525C Human Osteology
ANT 4528C Advanced Forensic Anthropology
ANT 4596 Human Origins
ANG 5742 Problems in Forensic Anthropology

D. Concentration in Cultural Anthropology
The following 2000 level courses must be taken:
(6 hrs)
ANT 2000 General Anthropology
ANT 2410 Cultural Anthropology

Take four of the following courses:
(12 hrs)
ANT 2312 Peoples of the World
ANT 3241 Magic, Ritual, and Belief
ANT 3260 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 3312 Ethnology of North Amer Indians
ANT 3313 Indians of N Amer High Plains
ANT 3314 Indians of the Northeast Woodlands
ANT 3316 Black/Seminole Relations
ANT 3318 Indians of the Northwest Coast
ANT 3320 Indians of the Southwest
ANT 3344 Ancient Incas
ANT 4332 Peoples and Culture of Latin America (or ANG 5307)
ANT 4438 Anthropology of Tourism (or ANG 5437)
ANT 3701 Applied Anthropology
ANT 4702 Culture, Power, and Development (or ANG 5272)
ANT 4802 Ethnographic Field Methods
ANT 3363 Anthropology of Japan
ANT 3640 Language and Culture (or ANG 5620)
ANT 4340 Caribbean Cultures (or ANG 5341)
ANT 3319 The Anthropology of Diaspora
ANT 4034 History of Anthropological Thought
ANT 4266 Economic Anthropology
ANT 4396 Gender Issues in Latin America
ANT 4352 African Societies and Cultures
ANT 4354 Postcolonial Africa
ANG 5167 Maya Hieroglyphs
ANG 5228 Maya Iconography
ANG 5622 Language, Culture, and Pedagogy
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.
- Not open to Anthropology majors.

ANTHROPOLOGY IN MULTICULTURAL STUDIES: Minor
College of Sciences
Department of Anthropology, PH 309
http://www.cos.ucf.edu/anthropology
E-mail: anthropology@ucf.edu
Contact: A. Chase 407-823-2227

This minor develops a student’s understanding of the recent dilemmas of Hispanic, Native American, and Pacific Rim cultures, sex, and gender controversies in 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.
Minors

Credit Hour Requirements 18 hrs
Required Course (3 hrs)
Select one of the following:
ANT 2000 General Anthropology
ANT 2410 Cultural Anthropology

Restricted Electives (15 hrs)
Select five of the following. Substitutions require prior consent of the Anthropology Coordinator.
ANT 3164 Ancient 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 3312 Ethnology of North Amer Indians
ANT 3432 People and Cultures of Latin America (or ANG 3507)
ANT 3640 Language and Culture (or ANG 5620)
ANT 4340 Caribbean Cultures (or ANG 5341)
ANT 3316 Black/Seminole Relations
ANT 3319 The Anthropology of Diaspora
ANT 3541 Biobehavioral Anthropology
ANT 4438 Anthropology of Tourism (or ANG 5437)
ANT 4467 Nutritional Anthropology (or ANG 5467)
ANT 3701 Applied Anthropology
ANT 4702 Culture, Power, and Development (or ANG 5272)
ANT 4266 Economic Anthropology
ANT 4308 Gender Issues in Latin America
ANT 4516 Human Biological Diversity
SDY 3700 Race and Ethnic Minorities in the US

Other Requirements
- Earn a grade of “C” (2.0) or better in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Not open to Anthropology majors.

ART HISTORY: Minor
College of Arts and Humanities
Art Department, VAB 117
http://www.art.ucf.edu/
E-mail: art@ucf.edu
Contact: J. Chavda, 407-823-2676

The Art Department affirms that a theoretical and working understanding of the historical meanings and studio applications of the human image are critical in the education of Visual Art and Art History students. To develop such an understanding, Art Department courses often utilize images of clothed and unclothed human figures and, in certain studio classes, live nude models.

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 Italian Renaissance Art 3 hrs
ARH 4430 19th Century 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 4200 Medieval Art
ARH 4892 Women in Art
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 two of the required courses must be regularly scheduled 3000-4000 level courses in a single area of specialization in the Art Department.

ART - STUDIO: Minor
College of Arts and Humanities
Art Department, VAB 117
http://www.art.ucf.edu/
E-mail: art@ucf.edu
Contact: J. Chavda, 407-823-2676

Credit Hour Requirements 24 hrs
Required Courses (18 hrs)
ARH 2050 History of Western Art I 3 hrs
ARH 2051 History of Western Art II 3 hrs
ART 2201C Design Fundamentals 2-D 3 hrs
ART 2203C Design Fundamentals 3-D 3 hrs
ART 2300C Drawing Fundamentals I 3 hrs
ART 2301C Drawing Fundamentals II 3 hrs

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 one 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 Humanities
http://www.cas.ucf.edu/
Contact: E-mail: pmurphy@mail.ucf.edu

An interdisciplinary minor in which several UCF departments participate in order to offer students a basic and well-rounded background in the field. Courses are to be selected in consultation with a departmental advisor.

Credit Hour Requirements 21 hrs
Required Course (3 hrs)
HUM 3401 Asian Humanities

Restricted Electives (18 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
- Students must earn at least a “C” (2.0) in each course used to satisfy the minor.
- At least fifteen credits 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 in the minor without prior approval by the director.
ASTRONOMY: Minor
College of Sciences
Department of Physics, MAP 310
E-mail: physics@ucf.edu
Contact: Humberto Campins, 407-823-2325
Credit Hour Requirements 20 hrs
Required Course (18 hrs)
PHY 2048 Physics for Engineers & Scientists I 3 hrs
AST 2002 Astronomy 3 hrs
AST 3722C Tech of Observational Astronomy 3 hrs
AST 3110 Solar System Astronomy 3 hrs
AST 3211 Stellar Astrophysics 3 hrs
AST 3402 Galaxies and Cosmology 3 hrs
Restricted Electives (2 hrs)
Select either:
PHY 2040 Physics for Engineers & Scientists II or 3 hrs
PHY 2048L Physics for Engineers and Scientists I Lab and 1 hr
AST 2002L Astronomy Lab 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) or “S” grades from other institutions are not accepted.
Courses taken at community colleges do not substitute for upper division courses.
Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
At least twelve 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.

BIOLGY: Minor
College of Sciences
Biology Department, BL 301
http://www.cos.ucf.edu/biology
E-mail: biology@ucf.edu
Contact: F. Logiudice, 407-823-2141
Credit Hour Requirements 31 hrs
Required Courses (31 hrs)
BSC 2010C Biology I 4 hrs
BSC 2011C Biology II 4 hrs
CHM 2045C* Chemistry Fundamentals I 4 hrs
CHM 2046 Chemistry Fundamentals II 3 hrs
CHM 2210 Organic Chemistry 3 hrs
PCB 3023 Molecular Cell Biology 3 hrs
PCB 3044 Principles of Ecology 3 hrs
PCB 3083 Genetics 3 hrs
PCB 4683 Population Biology and Evolution 4 hrs
*CHM 2040C plus CHM 2041C can substitute for CHM 2045C

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.

BUSINESS: Minor for Non-Business Majors
College of Business Administration
BA2-101
Contact: Undergraduate Student Services, BA2 101, (407) 823-2184
Credit Hour Requirements 24 hrs
Required Accounting Courses (6 hrs)
AGC 2021 Principles of Financial Accounting
AGC 2071 Principles of Managerial Accounting
Required Courses (18 hrs)
ECO 2013 Macroeconomics
ECO 2023 Microeconomics
FIN 3403 Business Finance
MAN 3025 Management of Organizations
MAR 3023 Marketing

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.
Courses taken at community colleges do not substitute for upper division courses.
Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
At least 11 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.

CHEMISTRY: Minor
College of Sciences
Department of Chemistry, CH 117
http://www.cos.ucf.edu/chemistry
E-mail: chemistry@ucf.edu
Contact: Cherie Geiger
Credit Hour Requirements 28 hrs
Required Courses (21 hrs)
CHM 2045C* Chemistry Fundamentals I 4 hrs
CHM 2046 Chemistry Fundamentals II 3 hrs
CHM 2046L Chemistry Fundamentals Laboratory 1 hr
CHM 2210 Organic Chemistry I 3 hrs
CHM 2211 Organic Chemistry II 3 hrs
CHM 2211L Organic Laboratory Techniques I 2 hrs
CHM 3120 Analytical Chemistry 5 hrs
*CHM 2040C plus CHM 2041C can substitute for CHM 2045C

Restricted Upper Division Electives (7 hrs)
At least one course must be selected from group I and the remaining from group I and/or II:
Group I: Select at least one course
CHM 3212L Organic Laboratory Techniques II
CHM 4130 Advanced Analytical Laboratory Technique
CH 4103L Biochemical Methods
CHS 3530C Forensic Analysis of Controlled Substances
CHM 3411L Physical Chemistry Laboratory
CHM 5451C Polymer Chemistry Laboratory

Group II:
BCH 4053 Biochemistry I
BCH 4054 Biochemistry II
CHM 3410 Physical Chemistry I
CHM 3411 Physical Chemistry II
CHM 3422 Applied Physical Chemistry
CHM 5225 Advanced Organic Chemistry I
CHM 4220 Organic Chemistry III
CHS 4200 Concepts in Industrial Chemistry
CHM 5235 Applied Molecular Spectroscopy
CHM 5450 Polymer Chemistry
CHS 4615 Environmental Chemistry

Other Requirements
A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
Grades below “C” (2.0) in lower level courses are not accepted.
At least 11 hours used in the minor must be earned at UCF within the department, with a minimum GPA of 2.0.
No credit by exam (TSD, Military credit) may be used.
Internship, Co-op, or Independent Study credit cannot be used toward the minor.

COACHING: Minor
College of Education
Department of Teaching and Learning Principles
ED 209
http://pegasus.cc.ucf.edu/~ucfphyed/minors.htm
Program Coordinator: Dr. Patricia Higginbotham
ED 320-H, 407-823-2050, E-mail: higginbp@mail.ucf.edu
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, which includes nine hours (Human Injuries,
Minors

Coaching Theory, and a Coaching Specialization course), for all persons certified to teach. 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. This Minor is available for students in the 2001 Catalog Year and beyond.

Credit Hour Requirements 18 hrs
Required Courses (18 hrs)
- PET 2522C Human Injuries 3 hrs
- PET 3705 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:
- PE0264 Coaching Football or 3 hrs
- PE0364 Coaching Basketball or
- PE03324 Coaching Volleyball

*If the student has completed this course at a community college it can be transferred into the program.

Other Requirements
- An overall GPA of 2.0 is required to satisfy the minor.
- No grades below “C-” (1.75) and no “S” grades will be accepted.
- At least 12 hours used in the minor must be earned at UCF.
- No TSD or Military credit may be used.
- Internship or Independent Study credit cannot be used toward the minor.

COGNITIVE SCIENCES: Minor
College of Arts and Humanities
Philosophy Department, CHH 411
http://www.cas.ucf.edu/philosophy/
E-mail: philosophy@ucf.edu
Contact: Jennifer Mundale, 407-823-2273; Fax: 407-823-6658

The cognitive sciences minor provides an interdisciplinary approach to the study of mind, brain, and cognition, broadly construed. It complements the background of students intending to pursue graduate degrees in cognitive science, computer science, philosophy, psychology, biology, neuroscience, and medicine, as well as students with more immediate career goals in fields such as neural network modeling, neuroimaging, information technology, clinical or counseling psychology, biotechnology, and others.

Credit Hour Requirements 21 hrs
Required Courses (15 hrs)
- PSB 3002 Physiological Psychology (PR: PSY 2012)
- PSB 4240C Neuropsychology (PR: PSB 3002)
- ZOO 744 Neurobiology (PR: BSC 2010C)
- PSB 4422 Brainwaves and Behavior (PR: PSB 3002)

Philosophy
- PHI 3320 Philosophy of Mind (PR: PHIL 2010 or C.I.)
- PHI 3323 Minds and Machines (PR: PHIL 2010 or C.I.)
- PHI 4341 Ways of Knowing (PR: PHIL 2010)
- PHI 3451 Philosophy of Psychology (PR: Junior or C.I.)
- PHI 4400 Philosophy of Science

Psychology
- EXP 3040C Cognitive Psychology (PR: PSY 2012)
- EXP 4070C Advanced Human Memory and Cognition (PR: PSY 3213C and EXP 3040C)
- EXP 3204C Perception (PR: PSY 2012, PSY 3213C)

Computer Science and Information Technology
- CAP 4453 Robot Vision (PR: COP 3530C and MAC 2312, or C.I.)
- CAP 4630 Artificial Intelligence (PR: COP 3530C)
- EEL 3520 Information Theory (PR: MAC 2147 or any calculus course; not open to EE or CE majors)
- EEL 3552C Signal Analysis & Communications (PR: EEL 3004)

Language and Linguistics
- LIN 3010 Principles of Linguistics (PR: ENC 1102)
- LIN 3716 Language Development: Birth Through 8 Years

(6 hrs)
Restricted Electives
- ANT 3541 Biobehavioral Anthropology
- ANT 3550 Primatology (PR: ANT 2511 or C.I.)
- ANT 3640 Language and Culture (PR: Sophomore standing)
- ANT 4586 Human Origins (PR: ANT 2511)
- CAP 4630 Introduction to Artificial Intelligence (PR: COP 3530C)
- COP 4520 Concepts of Parallel Distributed Processing (PR: COP 3530C and COP 3402)
- COP 5015 Multimedia Compression on the Internet (PR: senior or graduate student)
- CAP 5415 Computer Vision (PR: COP 3530C)
- CAP 5512 Evolutionary Computing
- COP 4520 Concepts of Parallel and Distributed Processing (PR: COP 3530C and COP 3402)

At least 15 hours used in the minor must be earned at UCF.
No more than 10 credit hours may be used both toward credit for a major and the cognitive sciences minor.
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 require prior approval from the advisors to be used toward the minor.

COMmUNICATION SCIENCES AND DISORDERS: Minor
College of Health and Public Affairs
Department of Communication Sciences and Disorders
http://www.coahpa.ucf.edu/comdis
HPA2, Suite 101
Chair: R. Jane Lieberman, 407-823-4798;
Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798,
E-mail: jscbschw@mail.ucf.edu

Credit Hour Requirements 22 hrs
Required Courses
- SPA 3471 Communication Disorders In Literature and Media 3 hrs
- SPA 3112 Basic Phonetics 3 hrs
- SPA 3112L Basic Phonetics Lab 1 hr
- LIN 3716 Language Development: Birth Through 8 Years 3 hrs
- SPA 3101 Physiological Bases of Speech and Hearing 3 hrs
- SPA 4032 Audiology 3 hrs
- SPA 4400 Language Disorders Across the Life Span 3 hrs
- SPA 4476 Speech Disorders Across the Lifespan 3 hrs

Other Requirements
- A minimum GPA of 1.75 is required in all courses used to satisfy the minor.
- No grades less than “C” (1.75) are not accepted.
- Students must earn an overall minimum of 2.0 GPA in the courses used to satisfy the minor.
- At least 19 hours used in the minor must be earned at UCF within the department.
CRIMINAL JUSTICE: Minor
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies
HPA 311
E-mail: cjadvise@mail.ucf.edu
Credit Hour Requirements 18 hrs
Required Courses 18 hrs
CCJ 3024 Criminal Justice System 3 hrs
CCJ 3014 Crime in America 3 hrs
Restricted Electives (12 hrs)
Two of the following:
CJC 3510 Prosecution and Adjudication 3 hrs
CJC 3610 The Corrections and Penology 3 hrs

Other Requirements
At least 15 hours used in the minor must be earned at UCF with-
Grades less than "C-" (1.75) are not accepted.
A grade of "C" (2.0) or better is required in all courses used to satisfy
Internship or Independent Study credit may be used toward the minor.

DANCE: Minor
College of Arts and Humanities
Theatre Department, UTC 180
http://www.theatre.ucf.edu
Contact: Brian Vernon, 407-823-2862, E-mail: bvernon@mail.ucf.edu
Credit Hour Requirements 18 hrs
Entrance Requirement
A successful audition
Required Courses (11 hrs)
DAN 3134 Dance History I 3 hrs
DAA 2610 Dance Improvisation/Composition I 3 hrs
DAA 2100C Modern Dance I 2 hrs
DAA 2200C Ballet I 2 hrs
DAA 3680 Dance Performance 1 hr
Electives (7 hrs)
DAA 2570C Jazz Dance I 2 hrs
DAA 2571C Jazz Dance II 2 hrs
DAA 3502C Jazz Dance III 2 hrs
DAA 2520C Tap Dance I 2 hrs
DAA 2521C Tap Dance II 2 hrs
DAA 2524C Tap Dance III 2 hrs
DAA 2201C Ballet II 2 hrs
DAA 3202C Ballet III 2 hrs
DAA 2101C Modern Dance II 2 hrs
DAA 5102C Modern Dance III 2 hrs
DAA 2393C World Dance 2 hrs
DAA 3645 Choreography Practicum 2 hrs
DAA 3680 Dance Performance 1 hr
TPP 2290L Theatre Participation 1 hr

Other Requirements
Earn a grade of "C" (2.0) or better in all courses used to satisfy
At least 14 hours used in the minor must be earned at UCF with-
No credit by exam (TSD, Military credit) may be used.
Independent Study credit may be used in the minor only with
Participation on a minimum of one departmental dance concert.
A minimum of 3 different dance styles must be completed in the minor.

DIGITAL MEDIA: Minor
College of Arts and Humanities
Digital Media, 500 OTC
http://www.dm.ucf.edu
E-mail: digitalmedia@dm.ucf.edu
Digital Media Head: David Vickers, 407-823-6110
Credit Hour Requirements 18 hrs
Required Courses 12 hrs
DIG 3001 Principles of Digital Media 3 hrs
DIG 3135C Digital Imagery 3 hrs
DIG 2500C Concepts in Computer Science 3 hrs
DIG 4716L Internet Interaction 3 hrs
Restricted Elective Courses 6 hrs
Select two courses:
DIG 3134C Internet Software Design 3 hrs
DIG 3216C Assembling Digital Media 3 hrs
DIG 3921C Media for e-Commerce I 3 hrs
DIG 4641 Creative Digital Devices 3 hrs
DIG 4780 Modeling for Realtime Graphics 3 hrs
DIG 3955 Converging Media 3 hrs
DIG 4640 Autonomous Media 3 hrs
DIG 4715C Game Engines 3 hrs

CJE 4014 Police and Society
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 cours-
es 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 with-
in the department.
No credit by exam (TSD, Military credit) may be used.
Internship or Independent Study credit cannot be used toward the minor.

COMMUNITY ARTS—PAVE: Minor
College of Arts and Humanities
Digital Media, 500 OTC
http://www.dm.ucf.edu
E-mail: digitalmedia@dm.ucf.edu
Digital Media Head: David Vickers, 407-823-6110
Credit Hour Requirements 18 hrs
Entrance Requirement
A successful audition
Required Courses (11 hrs)
DIG 3286 Assembling Digital Media 3 hrs
DIG 4716L Internet Interaction 3 hrs
DIG 4641 Creative Digital Devices 3 hrs
DIG 4780 Modeling for Realtime Graphics 3 hrs
DIG 3955 Converging Media 3 hrs
DIG 4640 Autonomous Media 3 hrs
DIG 4715C Game Engines 3 hrs

Other Requirements
Earn a grade of "C" (2.0) or better in all courses used to satisfy
At least 14 hours used in the minor must be earned at UCF with-
No credit by exam (TSD, Military credit) may be used.
Independent Study credit may be used in the minor only with
Participation on a minimum of one departmental dance concert.
A minimum of 3 different dance styles must be completed in the minor.

COMPUTER SCIENCE: Minor
College of Engineering and Computer Science
School of Electrical Engineering & Computer Science,
Harris Corp Engineering Ctr., Rm 246, 407-823-2787; Fax: 407-823-5419
http://www.eecs.ucf.edu
Contact: Mark Llewellyn, E-mail: markl@cs.ucf.edu
Credit Hour Requirements 19 hrs
Required Courses (19 hrs)
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 3532C Computer Science II 3 hrs
COT 3100C Introduction to Discrete Structure 3 hrs
MAD 2104 Foundations of Discrete Mathematics 3 hrs
CDA 3103 Org. of Computer Science 3 hrs

Other Requirements
Not open to Computer Science or Information Technology majors.
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.

Minors
Minors

DIG 473C Game Design

Other Requirements
- A minimum grade of "C" (2.0) or better is required in each course used to satisfy the minor.
- 15 hours used in the minor must be taken at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit can be used in the minor only with prior written permission.

EARLY CHILDHOOD EDUCATION: Minor

PRE-KINDERGARTEN-PRIMARY (PK-3)

College of Education
Department of Child, Family and Community Sciences
ED 209, E-mail: ece@mail.ucf.edu
http://pegasus.cc.ucf.edu/~eceucf/
Program Coordinator: TBA, ED 206, 407-823-0045

The Early Childhood Education minor is intended to provide a limited, but substantive experience in the fields of education and early childhood education. The minor is intended for University students enrolled outside the College of Education and does not lead to teacher certification or admission to the College of Education. The minor is appropriate for students who are seeking an enhanced understanding of education or are considering a career working with young children in the fields of education, early childhood education, social work, psychology or health services. This minor will strengthen the marketability of the student’s major program. This minor is available for students in the 2003 catalog year and beyond.

Total Credit Hour Requirements

Required Courses (18 hrs)
- EEC 4XX Early Childhood Education Theory and Practice 3 hrs
- RED 3110 Early Reading, Writing and Language Arts 3 hrs
- CCC 3468 Curriculum Activities in Early Childhood 3 hrs
- EEC 4604 Class Mgt & Guid Yng Child 3 hrs
- EEC 4207 Assessment and Evaluation of Young Children 3 hrs
- EEX 4751 Parent Involvement 3 hrs

Restricted Electives (select one) (3 hrs)
- EEX 3450 Young Children with Special Needs 3 hrs
- RED 3012 Foundations of Reading 3 hrs
- MAE 4300 Math Curriculum and Assessment in E C 3 hrs
- ECE 4304 Science Curriculum and Assessment in E C 3 hrs
- RED 4311 Primary Reading, Writing and Language Arts 3 hrs
- ECE 4XXX Early Childhood Education Theory and Practice 3 hrs

Other Requirements:
- Completion of all parts of the CLAST with appropriate passing scores, not alternatives, or completion of an A.A. degree from a Florida public post secondary institution, including completion of CLAST with appropriate scores or alternatives.
- A minimum GPA of 2.5 of all Gordon Rule is required.
- At least 15 hours used in the minor must be taken at UCF.
- No credit by exam (CLEP, Military credit) may be used. Transfer credits from other universities will be considered.

Note: Completion of the minor does not complete the requirements for certification in Early Childhood Education nor does it constitute admission to the College of Education.

ECONOMICS: Minor

(for both Business Majors and non-Business Majors)

College of Business Administration
Department of Economics, BA2 305, 407-823-3266
http://www.bus.ucf.edu/economics
Advisor: R. Pennington, BA2 305B, 407-823-2640, E-mail: robertp@mail.ucf.edu

Credit Hour Requirements

Required Courses (9 hrs)
- ECO 2013 Principles of Macroeconomics 3 hrs
- ECO 2023 Principles of Microeconomics 3 hrs

Select one of the following two courses:
- ECO 3101 Intermediate Macroeconomics 3 hrs
- ECO 3203 Intermediate Macroeconomics 3 hrs

Upper Division Restricted Electives (9 hrs)

Select from any ECO, ECP or ECS courses at the 3000 - 4000 level, excluding QMB 3201. Note: QMB 3201 is a pre-requisite for ECO 3101 and ECO 3203.

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.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- 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.

EMERGENCY MANAGEMENT AND HOMELAND SECURITY: Minor

College of Health and Public Affairs
Department of Public Administration, HPA2 238
Contact: Robert Morin, 407-823-2604; Fax: 407-823-5651.
Email: rmorin@mail.ucf.edu

The minor in emergency management and homeland security provides students with an opportunity to comprehensively study the disaster management cycle, including emergency planning, mitigation, response and recovery. In an age of dense population, increased terrorism, unpredictable weather and high public expectations of risk reduction and public leadership, this is an exciting area of study. Students who complete a minor in emergency management and homeland security gain additional insight and knowledge that will help them find positions in various federal, state and local government or nonprofit organizations. Some of these may include the Environmental Protection Agency, Occupational Health and Safety Administration, the Orange County Emergency Management Division, the Federal Emergency Management Agency, the Department of Homeland Security and state and local Homeland Security agencies.

Credit Hour Requirements

Core Courses (15 hrs)
- PAD 4110 Intergovernmental Administration 3 hrs
- PAD 4392 Emergency Management and Homeland Security 3 hrs
- PAD 4712 Information Systems for Public Managers and Planners 3 hrs
- PAD 4395 Disaster Response and Recovery 3 hrs
- PAD 4390 Hazard Mitigation and Preparedness 3 hrs

Restricted Electives (select one) (3 hrs)
- CCJ 4661 Conflict & Terrorism 3 hrs
- HSA 4938 Health Issues in Disasters 3 hrs

Other Requirements
- 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 15 hours used in the minor must be earned at UCF within the department.
- Internship or Independent Study cannot be used toward the minor.

ENGINEERING LEADERSHIP: Minor

College of Engineering and Computer Science
Department of Industrial Engineering & Management Systems, ENG2 312
http://www.lems.ucf.edu

The Engineering Leadership Minor provides a knowledge base in engineering leadership principles and practices as well as management techniques in a technical environment. This minor is designed to enhance the student’s marketability, preparation and career viability as they enter the engineering profession.
### ENGLISH - LITERATURE: Minor

**College of Arts and Humanities**  
**Department of English, CNH 301**  
**E-mail: english@ucf.edu**  
**Contact:** T. Krise, 407-823-2212

#### Credit Hour Requirements  
18 hrs

#### Admission Requirement
Acceptance to the program is from a pool of applicants each fall term for the two semester program. Admission requires an interview with the Director of this minor program, submission of the applicant’s resume with academic and outside activity information, and an essay prepared by the applicant explaining their interest in the program with self development issues they would like to explore in the program.

#### Required Courses  
(18 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 3613 Engineering Economy</td>
<td>2 hrs</td>
</tr>
<tr>
<td>EIN 3354 Principles of Cost Engineering</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EIN 4624 Engineering Administration</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EIN 4191C Engineering Leadership I (Fall)</td>
<td>2 hrs</td>
</tr>
<tr>
<td>EIN 4192C Engineering Leadership II (Spring)</td>
<td>2 hrs</td>
</tr>
</tbody>
</table>

#### Other Requirements
- A minimum GPA of 3.00 is required for acceptance into this minor degree program.
- A cumulative GPA of 2.0 is required to successfully complete the minor.
- Students must have a Grade of “C” (2.0) or better in all courses in the minor.
- Any course substitution must be approved by IEMS Undergraduate Coordinator and/or Department Chair.
- Only open to CECS undergraduate students

#### 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 3211 Creative Nonfiction Writing
- CRW 3310 Poetry Writing Workshop

- Select one course
- CRW 4224 Advanced Fiction Writing Workshop (PR: CRW 3120)
- CRW 4230 Advanced Poetry Writing Workshop (PR: CRW 3310)

- Required Course
- CRW 3013 Creative Writing for English Majors 3 hrs

#### 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.

#### Restricted Upper Division Electives  
(9 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 4643 Cross Cultural Communication</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIN 4660 Linguistics and Literature</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIN 4801 Language and Meaning</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIN 5137 Linguistics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ANT 3640 Language and Culture</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 4400 Philosophy of Science</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

#### Other Requirements
- A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 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.

#### Credit Hour Requirements  
21 hrs

#### Required Course
- ENG 3014 Theories and Techniques of Lit Study 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 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.

#### Credit Hour Requirements  
18 hrs

#### Choose 18 hours from the following Required courses
- ENC 3211 Theory & Practice of Tech Writing 3 hrs
- ENC 3241 Writing for the Technical Professional 3 hrs
- ENC 4215 Technical Publication and Project Management 3 hrs
- ENC 4218 The Visual in Technical Communication 3 hrs
- ENC 4293 Documentation and Collaborative Process 3 hrs
- ENC 4294 Documentation and Client-Based Collaboration 3 hrs
- ENC 4295 Capstone Experience in Technical Writing 3 hrs

Students completing the minor may intern with a Central Florida corporation

#### Other Requirements
- A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

#### ENGLISH - TECHNICAL WRITING & EDITING: Minor

**College of Arts and Humanities**  
**Department of English, CNH 301**  
**E-mail: english@ucf.edu**  
**Contact:** T. Krise, 407-823-2212

#### Credit Hour Requirements  
18 hrs

#### Required Courses  
(9 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIN 3010 Introduction to Linguistics</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIN 4105 History of the English Language</td>
<td>3 hrs</td>
</tr>
<tr>
<td>LIN 4680 Modern English Grammar</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

#### Restricted Elective Courses  
(9 hrs)

Any 3000 or 4000 level ENC or CRW classes for which the student has met the prerequisites, including
- CRW 3013 Creative Writing for English Majors
- CRW 3120 Fiction Writing Workshop
Minors

CRW 3211 Creative Nonfiction Writing
CRW 3310 Poetry Writing Workshop
CRW 3311 Structure of Verse
CRW 3610 Writing Scripts
CRW 4122 Advanced Fiction Writing Workshop
CRW 4123 Science Fiction Writing
CRW 4224 Advanced Nonfiction Workshop
CRW 4320 Advanced Poetry Writing Workshop
ENC 321I Theory and Practice of Technical Writing
ENC 324I Writing for the Technical Professional
ENC 3250 Professional Writing
ENC 3310 Magazine Writing I
ENC 331I Advanced Expository Writing

Other Requirements
■ A grade of “C” (2.0) or better is required in each course used to satisfy the minor.
■ At least 15 hours used in the minor must be earned at UCF within the department.
■ No credit by exam (TSD, Military credit) may be used.
■ Internship, Co-op, or Independent Study credit cannot be used toward the minor.

ENTREPRENEURSHIP: Business Minor
(Open to Business Students)
College of Business Administration
Management Department, BA 1309

Credit Hour Requirements 18 hrs
Required Courses (15 hrs)
MAN 3301 Human Resource Management
MAN 4802 Entrepreneurship
MAR 3391 Professional Sales or MAR 364I Marketing Intelligence
GEB 4111 New Venture Finance
GEB 4117 Business Plan Preparation

Restrictive Elective (3 hrs)
Any 3000 or 4500 MAN course or BUL 4540 not in COB Common Body of Knowledge

Other Requirements
■ A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
■ Grades below “C” (2.0) or “S” grades from other institutions are not accepted.
■ Courses taken at community colleges do not substitute for upper division courses.
■ Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
■ 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.
■ A maximum of 6 hours of the above listed required or elective courses can count toward another major or minor degree program.

ENVIRONMENTAL STUDIES: Minor
Office of Interdisciplinary Studies
http://www.is.ucf.edu

CL-I 302, E-mail: Is@mail.ucf.edu
Contact: Interdisciplinary Studies Advising Team, 407-823-0144
The Environmental Studies minor is an interdisciplinary program that prepares students for a diverse set of academic endeavors and careers. It delivers the tradition of a liberal arts education with the rigor of the natural and social sciences, providing the introspection and artistic presentation of the humanities with the inquisitiveness that we share concerning our environment.

Credit Hour Requirements 21 hrs
Required Course
IDS 3510 Foundations of Environmental Studies 3 hrs

Science & Environmental Electives (9 hrs)
BSC 1050 & L Biology and Environment + lab
BSC 2011C Biology II

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 within the department.

No credit by exam (TSD, Military credit) may be used.

A grade of “C” or above (2.0) is required in each course used to satisfy the minor.

At least 16 hours must be taken at the upper division.

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 require prior approval from the Interdisciplinary Studies advisors to be used toward the minor.

Internship, independent study, and co-op credit cannot be used in this minor.

EUROPEAN STUDIES: Minor
College of Sciences
Department of Political Science, CHN 415
http://www.cos.ucf.edu/politicalscience
E-mail: politics@mail.ucf.edu
Contact: Kerstin Hamann, 407-823-2608
An interdisciplinary minor that offers students a general background of the politics, history, literature, art, and culture of Europe with an emphasis on the post-World War II period. Courses are to be selected in consultation with a departmental advisor or the director of European Studies.

Credit hour requirements: 21 hrs
Students are responsible for meeting any prerequisites for the courses in the minor.

Required core courses: (6 hrs)
CPO 410I Politics of the European Union
LIT 3082 Continental European Fiction since 1900

Restricted Electives: (12 hrs)
ENL 2021 English Literature I
ENL 4101 English Novel
ENL 4240 English Romantic Literature
ENL 4262 19th Century British Prose
ENL 4273 Modern British Literature
FIL 3520 Italian Film
FIL 3521 French Film

Social & Humanities Electives (9 hrs)
ECP 3002 Economics and the Environment
ECP 4002 Economics of the Environment
EEO 4070 The Global Economy
INF 4351 International Environmental Law
PUP 3033 Environmental Politics
PUP 4503 Government and Science
PUP 4531 Issues in Environmental Program Management
PUP 3330 Urban and Regional Planning
PLA 4631 Land Use and Environmental Law
PUP 4204 Sustainability
GEO 2370 Resources Geography
GIS 3043C GIS for Environmental Studies
GIS 4301C Advanced GIS Applications in Environmental Studies
GIS 4303C Remote Sensing of the Environment
PHI 3033 Philosophy, Religion, and the Environment
PHI 4400 Philosophy of Science
PHI 3640 Environmental Ethics
PHI 4633 Ethics and Biological Science
PHM 4031 Environmental Philosophy

END OF PAGE
History (6 hrs)

Courses offered by the Modern Languages Department might be no credit by exam (military credit, TSD) may be used. At least 18 hours must be taken at UCF. A grade of "C" (2.0) or better is required for all courses counting languages require approval of director).

Other Requirements

Other Requirements

At least 15 credits must be upper division.

No more than 6 credit hours (separate from the foreign language requirement) may be used toward the European Studies minor and also used toward any other major or minor.

EXCEPTIONAL EDUCATION: Minor

College of Education
Department of Child, Family, and Community Sciences
ED 209
http://www.education.ucf.edu
Program Coordinator: Dr. Maria Blanes, ED 315-N, 407-823-5445, E-mail: mblanes@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 year and beyond.

Credit Hour Requirements

Required Courses (18 hrs)

RED 3012 Basic Foundations of Reading 3 hrs
EEX 4003 Teaching Exceptional Students 3 hrs
EEX 4601 Introduction to Behavior Management 3 hrs
EEX XXX Tech for Classroom Teachers of Students with Spec Needs 3 hrs
EDF 4603 Analysis of Critical Issues in Education 3 hrs
EEX 3243 Techniques for Exceptional Adolescents/Adults 3 hrs
EEX 524L or Methods for Academic Skills for Exceptional Students 3 hrs

Restricted Electives (select one) (3 hrs)

EEX 4066 Curriculum, Theory & Instruct Strategies 3 hrs
EDF 4467 Learning Theory & Assessment 3 hrs

Other Requirements

Completion of all parts of the CLAST with appropriate passing scores (no alternatives or waivers), or completion of an AA degree from a Florida public post secondary institution, including completion of CLAST with appropriate scores or alternatives.

A minimum GPA of 2.5 of all Gordon Rule classes including ENC 1101, 1102, and two college level math courses, MAC 1105 or higher, is required.

No credit by exam (CLEP, Military credit) may be used. Transfer credits from other universities will be considered.

Note: Completion of the minor does not complete the requirements for certification in Exceptional Education nor does it constitute admission in the College of Education.

Film - CINEMA STUDIES: Minor

College of Arts and Humanities
Film, COMM 121, 407-823-4285
http://www.film.ucf.edu
E-mail: film@ucf.edu
Division Head: S. Schlow, 407-823-2845

Entrance Requirement

Completion of a Minor Declaration and Minor Application

Credit Hour Requirements

Required Courses (12 hrs)

FIL 1007 Foundations of Story 3 hrs
FIL 1000 Cinema Survey 3 hrs
FIL 2400 History of Motion Pictures 3 hrs
FIL 3006 Art of the Cinema 3 hrs
FIL 2423 Foundations of Production 3 hrs

Restricted Electives (Choose Two) (6 hrs)

FIL 3309 Women in Film 3 hrs
FIL 3520 Italian Film 3 hrs
FIL 3521 French Film 3 hrs
FIL 3522 German Film 3 hrs
FIL 3412 Black Cinema 3 hrs

Other Requirements
Minors

- 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.

FINANCE: Minor
Open to Business and Non-Business Students
Not available to Finance Majors
College of Business Administration
Department of Finance, BA 409
http://www.bus.ucf.edu/finance

Credit Hour Requirements 19 hrs

Prerequisite courses:
ACG 2021 Principles of Financial Accounting
ACG 2071 Principles of Managerial Accounting
ECO 2013 Principles of Macroeconomics
ECO 2023 Principles of Microeconomics

Required courses 10 hrs
FIN 2104 Personal Finance and Investments 3 hrs
FIN 3403 Business Finance 4 hrs
FIN 3303 Financial Markets 3 hrs

Electives (select three of the following) 9 hrs
FIN 3414 Intermediate Corporate Finance 3 hrs
FIN 3470 Financial Statement Analysis 3 hrs
FIN 3504 Investment Analysis 3 hrs
FIN 4313 Management of Financial Institutions 3 hrs
FIN 4324 Commercial Bank Management 3 hrs
FIN 4424 Advanced Topics in Financial Management 3 hrs
FIN 4453 Financial Models 3 hrs
FIN 4514 Portfolio Analysis and Management 3 hrs
FIN 4533 Financial Derivatives 3 hrs
FIN 4804 International Financial Management 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 from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- 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.
- A maximum of 6 hours of the above listed required or elective courses can count toward another major or minor degree program.

FITNESS TRAINING: Minor
College of Education
Department of Teaching and Learning Principles, ED 209
http://pegasus.cc.ucf.edu/~ucfphyed/minors.htm

Program Coordinator: Dr. Patricia Higginbotham, ED 320 H, 407-823-2050, Email: higginbp@mail.ucf.edu

The Fitness Training minor is developed to provide the student interested in working in wellness centers as personal trainers the knowledge and experience to be successful in this growing and exciting area. The goal is to provide guided practical skills application to those students who wish to teach fitness related concepts to individuals and/or groups.

With the knowledge acquired from the completion of the required coursework for the Fitness Training Minor, students will be prepared and eligible to receive certification from The American Council on Exercise. This Minor is available for students in the 2001 Catalog Year and beyond.

Credit Hour Requirements 19 hrs

Required Courses
*PEM 2171 Aerobics 2 hrs
*PET 2622C Human Injuries 3 hrs
PET 4312 Biomechanics 3 hrs
PET 4550 Fitness Assessment 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 ZOO3736C. This is also true for the Human Injuries course, PET2622C and the PEM 2171 Aerobics course. Both of these courses are often completed at a community college.

Note: ZOO 3736C should be taken prior to PET 4312, PET 4550, and PET 4083C

Other Requirements
- No grades below “C-“ (1.75) and no “S” grades will be accepted.
- At least 12 hours 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 Humanities
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang
E-mail: Modernlanguage@ucf.edu
Contact: P. Giordano, 407-823-2472

Credit Hour Requirements 18 hrs

Restricted Electives
- Select six upper division courses in French, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements
- A grade of “C” (2.0) or better is required in 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.

GERMAN: Minor
College of Arts and Humanities
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang
E-mail: Modernlanguage@ucf.edu
Contact: P. Giordano, 407-823-2472

Credit Hour Requirements 18 hrs

Restricted Electives
- Select six upper division courses in German, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements
- A grade of “C” (2.0) or better is required in 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
Contact: Alice M. Noblin, 407-823-2353, Email: anoblin@mail.ucf.edu
Credit Hour Requirements 20 hrs
Required Courses (4 hrs)
- HIM 5405 Health Information Management Management Systems
- HIM 4656 Health Information Management Systems
- HIM 4226 Medical Terminology
- HIM 4256 Coding Procedures II

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.
- 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
Contact: L. Timothy Worrell, 407-823-2214, E-mail: worrell@mail.ucf.edu
Credit Hour Requirements 18 hrs
Required Courses (9 hrs)
- HSA 3111 U.S. Health Care Systems
- HSC 3100 Medical Self Assessment
- HSC 3600 Legal Environment

Restricted Upper Division Electives (3 hrs)
- 3 additional hours of upper division courses in the Health Professions department.

Other Requirements
- Majors may not count courses presently required in a department program.
- Majors may not count upper division courses.
- A grade of C- (1.75) or better is required in all courses used to satisfy the minor.

HEALTH SERVICES ADMINISTRATION: Minor
College of Health and Public Affairs
Department of Health Professions, HPA2 210
Contact: Kendall Cortelyou-Ward, 407-823-2359, Email: kcltely@mail.ucf.edu
Credit Hour Requirements 18 hrs
Required Courses (15 hrs)
- HSA 3111 U.S. Health Care Systems
- HSA 4191 Health Care Automation
- HSC 4500 Epidemiology

Restricted Elective (3 hrs)
- HSC 3640 Health Law
- HSC 4603 Health Care Ethics
- HSA 4109 Managed Care
- HSA 4502 Risk Management or HIM 4506 Quality Management
- HSA 4702 Health Science Research Methods

Other Requirements
- A minimum GPA of 2.5 is required in all coursework, and 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.

HISTORY: Minor
College of Arts and Humanities
Department of History, CHH 551
http://pegasus.cc.ucf.edu/~history
E-mail: history@ucf.edu
Contact: Edmund F. Kallina, 407-823-2224
Credit Hour Requirements 18 hrs
Restricted Upper Division Electives (11 hrs)
- 9 additional hours of upper division courses in the History Department.

Other Requirements
- A grade of C- (1.75) or better is required in all courses used to satisfy the minor.
- No credit by examination (TSD, Military credit) may be used without academic advisor's approval.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental approval.

HOSPITALITY MANAGEMENT: Minor
Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu
Dean: Abraham Pizam
Credit Hour Requirements 18 hrs
Required Courses (6 hrs)
- HFT 1000 Introduction to Hospitality Mgmt
- HFT 3540 Guest Services Management

Choose any two courses from the following: (6 hrs)
- HFT 2403 Hospitality Financial Accounting
- HFT 3431 Hospitality Managerial Accounting
- HFT 2500 Hospitality Marketing
- HFT 2220 Hospitality Human Resource Mgmt
- HFT 3444 Hospital Management Systems
- HFT 3600 Legal Environment in Hospitality
- HFT 4462 Hospitality Industry Finance
- HFT 4286 Hospitality Communications

Choose any two courses from the following: (6 hrs)
- HFT 3700 Tourism Management
- HFT 3253 Restaurant Management
- HFT 3273 Principles of Resort Time Sharing
- HFT 4755 Theme Park & Attraction Mgmt
- HFT 2750 The Event Industry
- FSS 2221C Quantity Food Preparation
- HFT 2254 Lodging Operations

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 College.
- No credit by examination (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.
Minors

HUMANITIES: Minor
College of Arts and Humanities
Department of Philosophy, CHN 411
http://www.cas.ucf.edu/philosophy
E-mail: philosophy@ucf.edu
Contact: Bruce Janz, 407-823-2273
A multicultural minor focusing on the art, literature, philosophy, and religion of various world cultures. This minor is intended to provide a limited, yet substantive, introduction to humanities themes related to knowledge, responsibility, and society. Students interested in the Liberal Arts major may find this minor particularly helpful. In consultation with a departmental advisor, student will select courses in accordance with the distributions listed below.

Credit Hour Requirements

| Humanities Foundations | 6 hrs |
| Select two courses: | |
| HUM 3421 | Ancient Humanities |
| HUM 3435 | Medieval Humanities |
| HUM 3255 | Modern Humanities |
| HUM 3252 | Contemporary Humanities |

Humanistic/Religious Traditions

| 6 hrs |
| 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 |
| PHI 3701 | Native American Philosophy |
| JST 3401 | The Jewish People I |

Applications

| 6 hrs |
| Select two courses: | |
| PHI 3003 | Philosophy and Creativity |
| PHI 3033 | Philosophy, Religion, and the Environment |
| PHM 3123 | Feminist Theories |
| REL 3115 | Religion, Spirituality, and Popular Music |
| REL 3111 | Religion and Philosophy through Film |
| HUM 4554 | Religious Quest and the Human Dilemma |
| HUM 4330 | Performance Theory |
| PHI 3022 | Sexuality, Gender &Philosophy |
| PHI 3038 | Ethical Issues in the 21st Century |
| PHI 4321 | Philosophies of Embodiment: Mind/Body/Self |

Upper Division Restricted Elective

| 3 hrs |
| Select one additional course from the above list or from the following: | |
| HUM 3420 | Contemporary Multicultural Studies |
| HUM 4301 | Classical Ideal |
| HUM 4303 | Spiritual Ideal |
| PHI 4804 | Critical Theory |
| PHI 3800 | Aesthetics |
| PHI 3400 | Philosophy of Religion |
| CLA 3850 | Classical Mythology |
| CLA 3851 | Comparative Mythology |

Other Requirements

- A “C” (2.0) grade or better is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

INFORMATION TECHNOLOGY: Minor

College of Engineering and Computer Science
School of Electrical Engineering & Computer Science
Harris Corp Engineering Ctr, Rm 246
http://www.eecs.ucf.edu
Contact: Mark Llewellyn, E-mail: Mark@cs.ucf.edu

Credit Hour Requirements

| 18-19 hours |
| Required Courses | (3-7 hrs) |
| Select one of the following options: | |
| Option 1 (Not open to Computer Science Minors or Interdisciplinary Studies Majors): | |
| CGS 1060C or CGS 2100C | Unix Operating Systems 3 hrs |
| COP 2500C | Concepts in Computer Science 4 hrs |
| Option 2 (Not open to Computer Science Minors or Interdisciplinary Studies Majors): | |
| COP 3223 | Intro to Programming with C 3 hrs |
| COP 3502C | Computer Science I 3 hrs |
| Option 3 (Computer Science Minors and Interdisciplinary Studies Majors Only): | |
| CGS 1060C or CGS 2100C | 3 hrs |

Restricted Electives

Select from the following:

- CGS 3346C Unix Operating Systems 3 hrs
- CGS 3545C Database Concepts 3 hrs
- CGS 2585C Desktop/Internet Publishing 3 hrs
- CGS 3175 Internet Applications 3 hrs
- CGS 3269 Computer Architecture Concepts 3 hrs
- CGS 295 Computer Networks Concepts 3 hrs
- CGS 3763 Operating Systems Concepts 3 hrs

College Electives

| 3-6 hrs |
| Options 1 and 2 | 3 hrs |
| Options 3 | 6 hrs |

Any upper division courses offered within Computer Science at UCF or additional courses chosen from the restricted electives (exclusive of independent studies, internship, and those courses listed under Required Courses). See other requirements.

Other Requirements

- Not open to Information Technology majors.
- A minimum grade of “C” (2.0) or better is required in each course used to satisfy the minor.
- At least 9 hours used in the minor must be earned within the Computer Science program at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, cooperative education, or Independent Study credit cannot be used toward the minor.
- The courses used to satisfy the college electives for this minor cannot also be used to satisfy the requirements for a Computer Science Minor.

INTERDISCIPLINARY Minor

College of Engineering and Computer Science
CECS Academic Affairs, ENGR 107
http://www.eecs.ucf.edu
Contact: Paul Edlen, 407-823-2455, E-mail: paule@mail.ucf.edu

Credit Hour Requirements

| 18 hrs |
| Required Courses | (9 hrs) |
| Select two courses from the following five courses: | |
| Control Systems | |
| EEL 3657 | Linear Control Systems 3 hrs |
| EML 4312C | Feedback Control 3 hrs |
| Manipulation and Rigid Body Motion | |
| EGN 3321 | Engineering Analysis – Dynamics 3 hrs |
| EML 3262 | Kinematics of Mechanism 3 hrs |
| Computer Vision and Intelligent Systems | |
| CAP 4453 | Robot Vision 3 hrs |

If a student chooses to take a third course, it will be counted as an elective.

Elective Courses

| 9 hrs |
| Select any three elective courses from the following courses: | |
| Path Planning, Autonomous Systems, Controls, Signal/Image Processing | |
| EEL 4664 | Autonomous Robotic Systems 3 hrs |
| EEL 4612 | Intro to Modern and Robust Ctrl 3 hrs |
| EEL 4750 | Digital Signal Proc Fund 3 hrs |
| EEL 5173 | Linear Systems Theory 3 hrs |
| EEL 5513 | DSP Applications 3 hrs |
| EEL 5630 | Digital Control Systems 3 hrs |
| EEL 5820 | Image Processing 3 hrs |
| EEL 5825 | Pattern Recognition 3 hrs |
| EML 5311 | System Control 3 hrs |
| Computer Vision and Intelligent Systems | |
| CAP 5415 | Computer Vision 3 hrs |
| CAP 5512 | Evolutionary Computation 3 hrs |
| CAP 5610 | Machine Learning 3 hrs |
| Mechatronics and MEMS | |
| EML 3804 | Digital Control in Mechatronics 3 hrs |
| EML 5625 | Applied Control Systems 3 hrs |
| EML 5290 | Intro to MEMS & Micromaching 3 hrs |
INTERDISCIPLINARY INFORMATICS TECHNOLOGY (I²Tech): Minor

College of Engineering and Computer Science
School of Electrical Engineering & Computer Science
http://www.eecs.ucf.edu

Contact: Dr. Piotr Windyga, 407-823-3467,
E-mail: pwindyga@cs.ucf.edu

Credit Hour Requirements 18 hrs
Required Courses (6 hrs)
- CET 5010 Introduction to Information Technology 3 hrs
- or CGS 1060C Introduction to Computer Science
- or CGS 2100C Computer Fundamentals for Business
- or CPO 2500C Introduction to Computer Science I
- CGS 3175 Internet Applications 3 hrs

Healthcare Concentration (9 hrs)
- HIM 3006 Introduction to Health Information Management 3 hrs
- CGS 4144 Introduction to Informatics 3 hrs
- HSA 4191 Health Care Automation 3 hrs

Technical Elective (3 hrs)
Students should consult with the program coordinator for a list of the approved technical electives.

Other Requirements
- A minimum cumulative GPA of 2.5 is required in the minor/certification.
- Pre-requisites to the minor include basic computer skills.
- No credit by exam (TSD, Military credit) may be used.

INTERNATIONAL AND GLOBAL STUDIES: MINOR

College of Sciences
Department of Political Science, CNN 415
http://www.cos.ucf.edu/politicalscience

E-mail: politics@ucf.edu

Contact: Waltraud Morales, 407-823-2608

Students taking the International and Global Studies Minor will examine the interactions between nations and the political processes within nations using a variety of perspectives. International aspects focus on how countries interact with one another, and how the social and cultural systems within them affect these interactions. Global studies looks at intra-national factors, such as how a state’s internal characteristics impact that state’s political processes. Immigration, technological advancements and internationalization of foreign policy make global studies a complementary approach to international studies.

Credit Hour Requirements 21-32 hrs
Note: It is the student’s responsibility to satisfy course prerequisites.
Core Courses (6 hrs)
- IDS 4315 Global Perspectives
- GEO 3471 World Political Geography

Restricted Political Science Electives (Select one) (3 hrs)
- INR 4030 Diplomacy
- INR 4076 Global Drug Policy
- INR 4075 Human Rights Policy
- INR 4011 Politics of Globalization
- INR 4054 Global Politics of Energy
- INR 4174 Politics of International Trade Policy
- INR 4035 International Political Economy
- INR 4603 International Relations Theory
- INR 4350 Global Environmental Politics
- INR 4502 International Organizations

Restricted Area Studies Electives (6 hrs)
Two upper division courses from one of the following area studies programs.
- Asian Studies
- European Studies
- Latin American, Caribbean and Latino Studies
- Middle Eastern Studies

Courses may not have a prefix of INR, CPO, POT, POS or PUP.

Restrictive Electives (3 hrs)

OTHER COURSES

- CCO 4461 Terrorism
- EUH 3651 War and Society
- MMC 4300 International Media
- CPO 3103 Comparative Politics
- CPO 4052 Comparative Judicial Process
- CPO 4074 Political Economy
- CPO 4754 Comparative Political Institutions
- CPO 4710 Women in Comparative Politics
- CPO 4784 Political & Economic Inequality in Comparative Perspective
- CPO 4445 Comparative Political Parties
- SYP 4454 Sociology of the Global System

The 3312 Theatre History and Dramatic Lit II

3-one credit Foreign Language across the Curriculum (FLAC) courses
Substitutions require prior approval by the program advisor

Language Requirement (0-14 hrs)
Proficiency equivalent to four semesters of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 9 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

INTERNATIONAL BUSINESS: Minor for Business Majors

College of Business Administration
Office of Student Support, BA 240
Contact: Richard Ajayi, 407-823-5908

Credit Hour Requirements 18 hrs
Required Courses (12 hrs)
- ECO 3703 International Trade or 3 hrs
- ECO 4XXX International Macroeconomics 3 hrs
- FIN 4604 International Financial Management 3 hrs
- MAN 4600 International Management or 3 hrs
- MAR4156 International Marketing 3 hrs

Elective (6 hrs)

OTHER COURSES

- ECO 3703 International Trade
- ECO 4XXX International Macroeconomics
- ECO 4701 Seminar in Global Economic Policy
- ECS 4013 Economics of Developing Areas
- GEO 3471 World Political Geography
- INR6035 International Political Economy
- INR 4224 Contemporary International Politics of Asia
- INR 4243 International Politics of Latin America
- INR 4401 International Law
- MAR 4724 Strategic Foundations in Global Business

Special Topics Seminars in International Business;
GEB Study Abroad, 3000/4000 level foreign language course.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) or “S” grades from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- 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.
- A maximum of six hours of the above listed required or elective courses can count toward another major or minor degree program.
INTERPERSONAL COMMUNICATION: Minor

College of Sciences
Nicholson School of Communication
COM 238, 407-823-2681
http://communication.cos.ucf.edu
E-mail: communication@ucf.edu
Contact: Susan Jefferson
Not open to Ad/PR, Interpersonal/Organizational Communication, Journalism, or Radio/TV majors.

Credit Hour Requirements

Required Courses

- COM 3311 Communication Research Methods
- SPC 3301 Interpersonal Communication

Restricted Electives

- COM 3012C Communication and Human Relations
- SPC 4331 Nonverbal Communication
- SPC 4540 Attitudes and Communication
- SPC 4426 Group Dynamics
- COM 4461 Intercultural Communication
- COM 4462 Conflict Management

Independent study or Special topics course if approved by the coordinator prior to enrolling in the class

Other Requirements

- A minimum average GPA of 2.0 is required in courses used to satisfy the minor.
- Grades below “C” (2.0) in lower division 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 with prior approval.

ITALIAN: Minor

College of Arts and Humanities
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang/
E-mail: Modernlanguage@ucf.edu
Contact: P. Giordano, 407-823-2472

Credit Hour Requirements

- 18 hrs

Restricted Electives

- Select 6 upper division courses in Italian, including the 3000-level advanced oral communication and composition courses.
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements

- A grade of “C” (2.0) or better is required in courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

LATIN AMERICA AREA STUDIES: Minor

College of Arts and Humanities
CNH 201M, 407-823-1173 or 1174
Program Director: Dr. José M. Maunez-Cuadra,
E-mail: jmaunez@pegasus.cc.ucf.edu

The minor provides students with an interdisciplinary knowledge of, and the necessary tools to understand, Latin America, its people and its culture. Students completing the minor shall be prepared to apply their knowledge about Latin America in a variety of careers including, but not limited to: education, government, journalism, foreign service, social and community service, international trade and public relations.

Credit Hour Requirements

- 18 hrs

Admission Requirement

Admission by interview with the Program Director.

Required Skills

Successful completion of SPN 1120 and SPN 1121 or demonstration of proficiency.

Restricted Electives

- At least 6 hours must be from one disciplinary group, and at least 3 hours from two additional groups. The other 12 must be selected from any of the disciplinary groups. Additional courses not listed below may substitute with prior approval from the Program Director.

HBR 1120 Elementary Modern Hebrew Language and Culture
HBR 1121 Elementary Modern Hebrew Language and Culture (18 hrs)

Upper Division Courses

- Jewish History
  - JST 3401 The Jewish People I
  - JST 3402 The Jewish People II
  - JST 3550 Introduction of Modernism into Judaism
  - JST 3701 History of the Holocaust
- Bible
  - JST 3120 Jewish Scriptures
  - JST 3125 The Book of Job
  - JST 3126 Romantic Love in the Bible
  - JST 3144 Dead Sea Scrolls
- Literature
  - JST 3100 The Hebrew Creative Mind
  - JST 3751 Literature of the Holocaust
- Culture
  - JST 3450 Modern Jewish Experience
  - JST 3820 Modern Hebrew Culture
  - JST 3810 The Jewish National Movement
- Language
  - HBR 2200 Intermediate Modern Hebrew Language and Culture I
  - HBR 2201 Intermediate Modern Hebrew Language and Culture II
  - HBR 3410 Conversational Israeli Hebrew
- Other courses, including special topics, with the approval of the Director

Other Requirements

- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

REQUIREMENTS FOR THE MINOR

A minimum average GPA of 2.0 is required in all courses used to satisfy the minor.

At least 12 hours used in the minor must be earned at UCF within the department.

A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.

No credit by exam (TSD, Military credit) may be used.

Internship, Co-op, or Independent Study credit cannot be used toward the minor.

Additional courses not listed below may substitute with prior approval from the Program Director.

Anthropology:
- ANT 3164 Ancient Incas
- ANT 3168 Maya Archaeology
- ANT 3332A0 People and Cultures of Latin America
- ANT 4340 Caribbean Cultures
- ANT 4380A0 Gender Issues in Latin America
- ANT 3168 Maya Archeology
- ANT 3164 Ancient Incas
- ANT 3168 Maya Archaeology
- ANT 3332A0 People and Cultures of Latin America
- ANT 4340 Caribbean Cultures
- ANT 4380A0 Gender Issues in Latin America
- ANT 3168 Maya Archeology
- ARH 4855 Meso American Art
- ARH 3673 Modern Art of Mexico
- ARH 3670 20th Century Latin American Art

Modern Languages and Literature:
- SPN 2200 Intermediate Spanish Language & Civilization
- FRW 2770 Francophone Literature
- SPW 3130 Survey of Latin American Literature I
- SPW 3131 Survey of Latin American Literature II
- LIT 3192 Caribbean Literature
- FRW 3752 French Caribbean Literature
- SPW 4382 Literature of Central America
- AML 3615 Harlem, Haiti, and Havana
Minors

LEGAL STUDIES: Minor
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies,
HPA 311
Contact: David B. Slaughter, 407-823-2603,
E-mail: dslaught@mail.ucf.edu

Credit Hour Requirements 21 hrs
Required Courses (3 hrs)
PLA 3013 Law and the Legal System

Restricted Upper Division Electives (15 hrs)
15 semester hours of legal studies courses selected with the aid of an advisor.

Restricted Electives (3 hrs)
3 semester hours of law-related courses selected with the aid of an advisor.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “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, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

Other Requirements
- A grade of “C” (2.0) or better is required in all courses used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.

MAGAZINE JOURNALISM: Minor
College of Sciences
Nicholson School of Communication, COM 244
http://communication.cos.ucf.edu

Prerequisites
- Grammar proficiency requirement
- A minimum UCF GPA of 3.3
- Not open to Ad/PR, Journalism, or Radio/TV majors.

Credit Hour Requirements 18 hrs
Required Courses (9 hrs)
JOU 2100C News Reporting 3 hrs
JOU 3510 Magazine Publishing 3 hrs
JOU 4224 Magazine Editing and Production 3 hrs

Restricted Upper Division Electives (9 hrs)

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.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- At least nine hours used in the minor must be earned at UCF.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor without departmental permission.

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.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- At least nine hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Independent Study, or Directed Research credit cannot be used toward the minor.
- A maximum of 6 hours of the above listed required or elective courses can count toward another major or minor degree program.

MARKETING: Minor
(Open to Business and Non-Business Students)
College of Business Administration
Department of Marketing, BA2 3075

Credit Hour Requirements 19 hrs
Required Courses (4 hrs)
MAR 3023 Marketing

Restricted Electives (12-15 hrs)
Select four or five:
MAR 3323 Integrated Marketing Communication
MAR 3301 Professional Selling
MAR 3403 Sales Force Management
Restricted Electives (18 hrs)

Credit Hour Requirements 18 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 from other institutions are not accepted.

Courses taken at community colleges do not substitute for upper division courses.

Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.

At least nine hours used in the minor must be earned at UCF with- in 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.

MASS COMMUNICATION: Minor

College of Sciences
Nicholson School of Communication
COM 238, 407-823-2681
http://communication.cos.ucf.edu
E-mail: communication@ucf.edu

Contact: M. A. Shaver, 407-823-2681; S. Jefferson, 407-823-3978

Not open to Ad/PR, Interpersonal/Organizational Communication, Journalism, or Radio/TV majors.

Credit Hour Requirements

Required Courses (9 hrs)

Select from the following:

MMC 2004 Mass Media
ADV 3008 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 3200 Mass Communication Law
MMC 4300 International Media
PUR 4000 Public Relations
RTV 3007 Dev & Struc of Elect Media & New Tech
RTV 3200 Prod Fund & Aesth of Elect Media
RTV 4403 Electronic Media, Technology and Society

Other Requirements

A minimum GPA of 2.0 is required in all courses used to satisfy the minor.

Grades below “C” (2.0) in lower level courses are not accepted.

At least 12 hours used in the minor must be earned at UCF within the School of Communication.

No credit by exam (TSD, Military credit) may be used.

Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

MIDDLE EASTERN STUDIES: Minor

College of Arts and Humanities
Middle Eastern Studies Program, CNH 411J
Program Director: Husain Kassim, 407-823-2803

The Middle Eastern Studies minor is designed to complement a student’s major area of study. The minor requires a core of Middle Eastern Studies courses as well as a selection of directed electives.

Credit Hour Requirements

Required Courses (9 hrs)

Select from the following:

CPO 3403 Politics of the Middle East
HUM 3419 Islamic Thought and Culture
ASH 3223 The Modern Middle East

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.

Internship, Co-op, or Independent Study credit cannot be used toward the minor.

A maximum of six hours of the above listed required or elective courses can count toward another major or minor degree program.

MATHEMATICS: Minor

College of Sciences
Department of Mathematics, MAP 207
http://math.ucf.edu
E-mail: math@mail.ucf.edu

Contact: H. Martin, MAP 215A, 407-823-5700,
E-mail: martin@math.ucf.edu

Credit Hour Requirements 21 hrs

Required Courses (15 hrs)

MAC 2311 Calculus with Analytic Geo I
MAC 2312 Calculus with Analytic Geo II
MAC 2313 Calculus with Analytic Geo III
MAP 2302 Differential Equations

Other Requirements

A grade of “C” (2.0) or “S” grades from other institutions are not accepted.

A maiximum of six hours of the above listed required or elective courses can count toward another major or minor degree program.

Additional courses may be used only with prior permission of the program director. Although not required, students are strongly encouraged to complete at least one year of Arabic (ARA 1120, 1121) and/or Hebrew (HBR 1120, 1121).

Other Requirements

A maximum of six hours of the above listed required or elective courses can count toward another major or minor degree program.

A grade of “C” or above (2.0) is required in each course for the
MINOR SCIENCE: Minor
College of Engineering and Computer Science
Army ROTC, BLDG 501
Contact: LTC Bryce Christensen, 407-823-1872

Credit Hour Requirements 19 hrs
Required Courses
- MSL 301C Leadership and Problem Solving 4 hrs
- MSL 302C Leadership and Ethics 4 hrs
- MSL 4301C Leadership and Management 4 hrs
- MSL 4302C OfficerShip 4 hrs

Select one of the following: (3 hrs)
- ANH 3541 U.S. Military History to 1900
- ANH 3547 U.S. Military History since 1900

Other Requirements
- Grades less than “C-” (1.75) are not accepted.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

MOLECULAR BIOLOGY AND MICROBIOLOGY: Minor
Burnett College of Biomedical Sciences
Department of Molecular Biology and Microbiology
HPA2 335, 407-823-5932
Chair: P.E. Kolattukudy

Credit Hour Requirements 30 hrs
Required Courses (23 hrs)
- BSC 2010C Biology I 4 hrs
- MCB 3020C General Microbiology 5 hrs
- PCB 3233 Immunology or
- PCB 323L Molecular Immunology 3 hrs
- PCB 3522 Molecular Biology I 3 hrs
- PCB 4524 Molecular Biology II 3 hrs
- BSC 3403C Quantitative Biological Methods 4 hrs

Restricted Electives (7 hrs)
- At least two courses from the Restricted Elective category of the baccalaureate curriculum.

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

MUSIC: Minor
College of Arts and Humanities
Department of Music, CNH 205
http://www.music.ucf.edu
Contact: Dr. Keith Koons, 407-823-2869,
E-mail: kkoons@mail.ucf.edu

Credit Hour Requirements 20 hrs
Required Courses (11 hrs)
- MUT 3121 Music Theory and Musicianship I 4 hrs
- MUT 3122 Music Theory and Musicianship II 4 hrs
- MUT 410 Music Theory and Musicianship III 3 hrs

Restricted Electives (9 hrs)
- Restricted electives must be taken from the Department of Music at UCF and must include 3 hours minimum at the 3000 or 4000 level. Secondary lessons can be used for electives contingent on a successful audition and approval of the department chair.

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.
- Not open to Anthropology majors.

OTHER MANAGEMENT/ENTERPRISE SYSTEMS: Minor
College of Business Administration
Department of MIS, BA 325, 407-823-3173/3174

Credit Hour Requirements 19 hrs
Prerequisite courses
- CGS 2100C Computer Fundamentals for Business or
- CGS 1060C Intro to Computer Science (or equivalent)
- MAC 1105 College Algebra or
- MGF 1106 Finite Mathematics
Minors

Required Courses 19 hrs

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>ISM 3011</td>
<td>Management Information Systems</td>
<td>4 hrs</td>
</tr>
<tr>
<td>ISM 3530</td>
<td>Quality and Productivity Management</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ISM 4153</td>
<td>Enterprise Information Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ISM 4431</td>
<td>Business Process Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ISM 4154</td>
<td>Enterprise Application Development</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ISM 4400</td>
<td>Decision Support Systems</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below "C" (2.0) or "S" grades from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- 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.
- A maximum of 6 hours of the above listed required or elective courses can count toward another major or minor degree program.

ORGANIZATIONAL COMMUNICATION: Minor

College of Sciences
Nicholson School of Communication
COM 238, 407-823-2681
http://communication.cos.ucf.edu
E-mail: communication@ucf.edu
Contact: Susan Jefferson
Not open to Ad/PR, Interpersonal/Organizational Communication, Journalism, or Radio/TV majors.

Credit Hour Requirements 21 hrs

Required Courses (6 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
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<tbody>
<tr>
<td>COM 3120</td>
<td>Organizational Communication</td>
<td>3 hrs</td>
</tr>
<tr>
<td>COM 3311</td>
<td>Communication Research Methods</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

Restricted Upper Division Electives (15 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>COM 3011C</td>
<td>Communication and Human Relations</td>
<td></td>
</tr>
<tr>
<td>COM 3110</td>
<td>Business and Professional Communication</td>
<td></td>
</tr>
<tr>
<td>SPC 4426</td>
<td>Group Dynamics</td>
<td></td>
</tr>
<tr>
<td>COM 4461</td>
<td>Intercultural Communication</td>
<td></td>
</tr>
<tr>
<td>COM 4462</td>
<td>Conflict Management</td>
<td></td>
</tr>
</tbody>
</table>

Independent study or Special Topics course if approved by the coordinator prior to enrolling in the class

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 can be used toward the minor with prior approval.

PHILOSOPHY: Minor

College of Arts and Humanities
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy
E-mail: philosophy@ucf.edu
Contact: Jennifer Mundale, 407-823-2273

The Philosophy minor is intended to provide a limited, yet substantive, introduction to philosophical themes related to knowledge, responsibility, and society. Students, in consultation with a departmental advisor, will select courses in accordance with the distributions listed below.

Credit Hour Requirements 21 hrs

Core Requirements (15 hrs)

Select one course from each of the following groups:

Reasoning

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 2011</td>
<td>Philosophical Reasoning</td>
<td></td>
</tr>
<tr>
<td>PHI 2101</td>
<td>Critical Thinking</td>
<td></td>
</tr>
<tr>
<td>PHI 2108</td>
<td>Formal Logic I</td>
<td></td>
</tr>
<tr>
<td>PHI 2647</td>
<td>Logic and Ethics</td>
<td></td>
</tr>
<tr>
<td>PHI 3131</td>
<td>Formal Logic II</td>
<td></td>
</tr>
</tbody>
</table>

History of Philosophy (3 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 3100</td>
<td>Ancient Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHI 3200</td>
<td>Medieval Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHI 3460</td>
<td>Modern Western Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHI 3600</td>
<td>Contemporary Philosophy</td>
<td></td>
</tr>
</tbody>
</table>

Values and Society (3 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 3670</td>
<td>Ethical Theory</td>
<td></td>
</tr>
<tr>
<td>PHI 3626</td>
<td>Advanced Ethics in Science and Technology</td>
<td></td>
</tr>
<tr>
<td>PHM 3401</td>
<td>Philosophy of Law</td>
<td></td>
</tr>
<tr>
<td>PHI 3800</td>
<td>Aesthetics</td>
<td></td>
</tr>
<tr>
<td>PHM 3123</td>
<td>Feminist Theories</td>
<td></td>
</tr>
<tr>
<td>PHI 3638</td>
<td>Ethical Issues in the 21st Century</td>
<td></td>
</tr>
<tr>
<td>PHI 3625</td>
<td>Virtual Ethics</td>
<td></td>
</tr>
<tr>
<td>PHI 4633</td>
<td>Ethics and Biological Science</td>
<td></td>
</tr>
<tr>
<td>PHM 3100</td>
<td>Freedom and Justice</td>
<td></td>
</tr>
<tr>
<td>PHI 3640</td>
<td>Environmental Ethics</td>
<td></td>
</tr>
<tr>
<td>PHI 4031</td>
<td>Environmental Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHI 3701</td>
<td>Native American Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHI 3805</td>
<td>Contemporary Aesthetics</td>
<td></td>
</tr>
</tbody>
</table>

Being and Knowing (3 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 4500</td>
<td>Metaphysics</td>
<td></td>
</tr>
<tr>
<td>PHI 4341</td>
<td>Ways of Knowing</td>
<td></td>
</tr>
<tr>
<td>PHI 4300</td>
<td>Theories of Knowledge</td>
<td></td>
</tr>
<tr>
<td>PHI 3700</td>
<td>Philosophy of Religion</td>
<td></td>
</tr>
<tr>
<td>PHI 4400</td>
<td>Philosophy of Science</td>
<td></td>
</tr>
<tr>
<td>PHI 3320</td>
<td>Philosophy of Mind</td>
<td></td>
</tr>
<tr>
<td>PHI 3451</td>
<td>Philosophy of Psychology</td>
<td></td>
</tr>
<tr>
<td>PHI 4420</td>
<td>Philosophy of Social Science</td>
<td></td>
</tr>
<tr>
<td>PHI 3323</td>
<td>Minds and Machines</td>
<td></td>
</tr>
<tr>
<td>PHI 4762</td>
<td>Phenomenology</td>
<td></td>
</tr>
<tr>
<td>PHI 4221</td>
<td>Philosophy of Language</td>
<td></td>
</tr>
</tbody>
</table>

Topics in Philosophy (3 hrs)

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>PHI 4931</td>
<td>Philosophy in the News</td>
<td></td>
</tr>
<tr>
<td>PHI 3683</td>
<td>Philosophy of Friendship</td>
<td></td>
</tr>
<tr>
<td>PHI 4321</td>
<td>Philosophies of Embodiment</td>
<td></td>
</tr>
<tr>
<td>PHI 3648</td>
<td>Ethical Issues of the Human Genome Project</td>
<td></td>
</tr>
<tr>
<td>PHI 3022</td>
<td>Sexuality, Gender and Philosophy</td>
<td></td>
</tr>
<tr>
<td>PHI 3033</td>
<td>Philosophy, Religion and the Environment</td>
<td></td>
</tr>
<tr>
<td>PHI 4904</td>
<td>Critical Theory</td>
<td></td>
</tr>
<tr>
<td>PHP 3783</td>
<td>Modernity as a Philosophical Problem</td>
<td></td>
</tr>
<tr>
<td>PHI 3750</td>
<td>Problem of Evil</td>
<td></td>
</tr>
<tr>
<td>PHI 3720</td>
<td>Faith and Reason</td>
<td></td>
</tr>
<tr>
<td>PHI 3903</td>
<td>Philosophy and Creativity</td>
<td></td>
</tr>
<tr>
<td>PHI 3941</td>
<td>Philosophy Practicum</td>
<td></td>
</tr>
<tr>
<td>REL 3111</td>
<td>Religion and Philosophy through Film</td>
<td></td>
</tr>
<tr>
<td>PHP 3786</td>
<td>Existentialism</td>
<td></td>
</tr>
</tbody>
</table>

Upper Division Restricted Electives (6 hrs)

Must consult an advisor for approved courses in this area.

Note: Appropriate Special Topics in Philosophy may be substituted for some core courses with prior approval by departmental advisor.

Other Requirements

- A grade of "C" (2.0) or better is required in all courses used to satisfy the minor.
- 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.
PHILOSOPHY, RELIGION AND POPULAR CULTURE: Minor

College of Arts and Humanities
Department of Philosophy, CNH 411
http://www.cas.ucf.edu/philosophy

E-mail: philosophy@ucf.edu

Advisor (UCF/Orlando Campus): Bruce Janz, 407-823-2273;
Fax: 407-823-6658;
Advisor (Cocoa Campus): Shelley Park, 321-433-7919

The Philosophy, Religion, and Popular Culture minor examines popular culture through the critical lenses of philosophy and religious studies. Students interested in the Interdisciplinary Studies major may find this minor particularly helpful. In consultation with a departmental advisor, students will select courses in accordance with the distributions listed below.

Credit hour requirements 21 hrs

Note: Appropriate special topics in philosophy or humanities may be substituted for some core courses with prior approval by department advisor.

Theoretical Foundations (6 hrs)

| PHI 3684 | Ways of Living |
| PHI 4341 | Ways of Knowing |

Philosophy (3 hrs)

Select at least one course:

| PHI 2101 | Critical Thinking |
| PHI 3670 | Ethical Theory |
| PHI 3700 | Philosophy of Religion |
| PHI 3800 | Aesthetics |
| PHI 3910 | Freedom and Justice |
| PHI 3720 | Faith and Reason |
| PHP 3867 | Existentialism |
| PHI 4804 | Critical Theory |
| PHI 4800 | Theories of Knowledge |

Religion (3 hrs)

Select at least one course:

| CLA 3851 | Comparative Mythology |
| HUM 3552 | Christian Thought |
| HUM 3553 | Moses, Jesus, and Mohammed |
| HUM 3417 | Hindu Thought and Culture |
| HUM 3419 | Islamic Thought and Culture |
| HUM 4303 | The Spiritual Ideal |
| HUM 4544 | Religious Quest and Human Dilemma |
| PHI 3750 | The Problem of Evil |

Popular Culture Studies (9 hrs)

A. Contemporary Media

Select at least one course:

| HUM 3320 | Contemporary Multicultural Studies |
| HUM 4555 | Religion and the Arts |
| HUM 4330 | Performance Theory |
| PHI 4921 | Philosophy In the News |
| POS 3225 | Mass Media and Politics |
| POS 3228 | Politics in Film |
| REL 3115 | Religion, Spirituality and Popular Music |
| REL 3111 | Religion and Philosophy through Film |
| SYP 3630 | Sociology of Popular Culture |

B. Contemporary Forms of Life

Select at least one course:

| ANT 3002 | Sex, Gender and Culture |
| HUM 3525 | Contemporary Humanities |
| PHI 3022 | Sex, Gender and Philosophy |
| PHI 3629 | Family Values |
| PHI 3033 | Philosophy, Religion and me Environment |
| PHI 3401 | Philosophy of Law |
| PHI 3638 | Ethical Issues in the 21st Century |
| PHI 3863 | Philosophy of Friendship |
| PHI 3123 | Feminist Theories |
| PHI 4321 | Philosophies of Embodiment: Mind/Body/Self |
| REL 3131 | Religion In America |

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.

PHYSICS: Minor

College of Sciences
Department of Physics, MAP 310
http://www.physics.ucf.edu

E-mail: physics@ucf.edu

Contact: Talat S. Rahman, 407-823-2325

Credit Hour Requirements 20 hrs

Required Courses (11 hrs)

| PHY 2048 | Physics for Eng and Sci I |
| PHY 2048L | Physics Laboratory for Eng and Sci I |
| PHY 2049 | Physics for Eng and Sci II |
| PHY 2049L | Physics Laboratory for Eng and Sci II |
| PHY 3101 | Physics for Eng and Sci III |

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 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.

POLITICAL SCIENCE: Minor

College of Sciences
Department of Political Science, CNH 415
http://www.cos.ucf.edu/politicalscience

E-mail: politics@ucf.edu

Contact: Roger Handberg, 407-823-2608

Credit Hour Requirements 18 hrs

Required Course (3 hrs)

| POS 2041 | American National Government |

Restricted Upper Division Electives (15 hrs)

- Five upper division Political Science courses (selected with the aid of a departmental advisor)
- Only three hours of POS 4941L (Internship) may be used.

Other Requirements

- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- 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.

POLITICAL SCIENCE/PRELAW: Minor

College of Sciences
Department of Political Science, CNH 415
http://www.cos.ucf.edu/politicalscience

E-mail: politics@ucf.edu

Contact: Roger Handberg, 407-823-2608

Credit Hour Requirements 18 hrs

Required Course (3 hrs)

| POS 2041 | American National Government |

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 4941L (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.
Minors

- 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 Sciences
Psychology Department, PSY 301
http://www.psych.ucf.edu/
E-mail: psychology@ucf.edu
Contact: Psychology Advising Center, PSY 250, 407-823-2219

The Psychology Department minor permits emphasis of several areas; Clinical Psychology, Human Factors Psychology, and Industrial/Organizational Psychology. When designing a minor, select courses which strengthen graduate school preparation and/or employment potential. Emphasis areas will not appear on the transcript.

Credit Hour Requirements 25-27 hrs

Required Courses (10 hrs)
- PSY 2012 General Psychology 3 hrs
- Select one STA course 3 hrs
- STA 2014C Principles of Statistics or STA 2023 Statistical Methods I 3 hrs
- PSY 3204 Statistical Methods in Psychology 4 hrs

Restricted Electives (15-17 hrs)
- A. Experimental. Select one of the following: 3-4 hrs
  - EXP 3404 Basic Learning Processes
  - EXP 3204C Perception
  - EXP 3604C Cognitive Psychology
  - LIN 3703 Psychology of Oral Communication
- B. Personality/Social. Select one of the following: 3 hrs
  - PPE 3003 Personality Theories
  - SOP 3004 Social Psychology
- C. Developmental. Select one of the following: 3 hrs
  - DEP 2004 Developmental Psychology
  - DEP 3202 Psychology of Exceptional Children
  - DEP 3464 Psychology of Aging
- D. Diversity. Select one of the following: 3 hrs
  - CLP 3184 Women's Mental Health
  - SOP 3742 Psychology of Women
  - SOP 3723 Cross Cultural Psychology
  - SOP 3724 Psychology of Racial Prejudice
  - SOP 3784 Psychology of Diversity
- E. Select one additional Psychology elective 3-4 hrs
  Note: INP 3141C, INP 3951, PSY 3905, PSY 4906, PSY 4912 will not fulfill this requirement.

A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Students must earn at least a 2.0 ("C") to earn credit.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor without prior approval.

REAL ESTATE: Minor
Open to Business and Non-Business Students
Not available to Real Estate Majors
College of Business Administration
Dr. P. Phillips School of Real Estate, BA 409
http://www.bus.ucf.edu/finance

Credit Hour Requirements 19 hrs

Required Courses (13 hrs)
- ACG 2021 Principles of Financial Accounting
- ACG 2071 Principles of Managerial Accounting
- ECO 2013 Principles of Macroeconomics
- ECO 2023 Principles of Microeconomics
- FIN 2104 Personal Finance and Investments 3 hrs
- FIN 3403 Business Finance 4 hrs
- REE 3043 Fundamentals of Real Estate 3 hrs
- REE 3433 Real Estate Law 3 hrs
- REE 4103 Real Estate Appraisal and Valuation 3 hrs
- REE 4203 Commercial Real Estate Finance 3 hrs
- REE 4204 Residential Real Estate Finance 3 hrs
- REE 4303 Real Estate Investment Analysis 3 hrs
- REE 4732 Real Estate Development 3 hrs

Electives (select two of the following) (6 hrs)
- EE 4404 Real Estate Finance 3 hrs
- EE 4406 Real Estate Management 3 hrs
- EE 4411 Real Estate Planning 3 hrs
- EE 4412 Real Estate Marketing 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 from other institutions are not accepted.
- Courses taken at community colleges do not substitute for upper division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- 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.
- A maximum of 6 hours of required or elective coursework (from Required Courses and Electives above) can count toward another major or minor degree program.

RECREATION: Minor
College of Education
Department of Teaching and Learning Principles
ED 209
Program Coordinator: Dr. Patricia Higginbotham, ED 320K, 407-823-2050, E-mail: higginbp@mail.ucf.edu

This minor will assist students who wish to work in recreation areas such as YMCA's, Boys and Girls Clubs, after school programs, sports for children programs, theme park and resort recreation programs.

Credit Hour Requirements 18 hrs

Required Courses (18 hrs)
- PEO 2011 Team Sports 3 hrs
- PEO 2031 Individual Sports 3 hrs
- DAE 3370 Dance and Rhythms 3 hrs
- PEO 3041 Games Analysis 3 hrs
- PET 3765 Coaching Theory 3 hrs
- PET 3820 Teaching Sports Skills I 3 hrs

PUBLIC ADMINISTRATION: Minor
College of Health and Public Affairs
Department of Public Administration, HPA2 238
Contact: Robert Morin, 407-823-2604, E-mail: mnorin@mail.ucf.edu

Credit Hour Requirements 18 hrs

Required Courses (18 hrs)
- PAD 3003 Public Admin in American Society 3 hrs
- PAD 4034 The Administration of Public Policy 3 hrs
- PAD 4104 Administrative Theory 3 hrs
- PAD 4204 Fiscal Management 3 hrs
- PAD 4414 Public Personnel Administration 3 hrs
- PAD 4720 Survey Research in Public Admin 3 hrs

Other Requirements

A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Students must earn at least a 2.0 ("C") to earn credit.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor without prior approval.
Minors

SECURE COMPUTING AND NETWORKS (SCAN): Interdisciplinary Minor

College of Engineering and Computer Science
CECS Academic Affairs, ENGR 107
http://www.cecs.ucf.edu

Contact: Kim Small, 407-823-2455, E-mail: ksmall@mail.ucf.edu

Credit Hour Requirements 18 hrs
Required Courses (9 hrs)
- CIS 3660 Security in Computing 3 hrs
- CIS 3662 Cryptography and Information Security 3 hrs

Select one:
- CDA 4506C Network Labs 3 hrs
- CDA 4527 Computer Communications Network 3 hrs
- CET 4483 Local Area Networks 3 hrs
- EEL 4781 Computer Networks 3 hrs

Elective Courses (9 hrs)
Select any three courses from the following list:
- Network Security:
  - CET 4663 Computer and Network Security 3 hrs
  - or CIS 4363 Network Security and Privacy 3 hrs
- CET 4882 Network Defense Strategies 3 hrs
- Security Management and Administration:
  - CET 4668 Practice of Information Security 3 hrs
  - CET 4884 Security Methods & Practices 3 hrs
  - CET 4885 Investigative Digital Technology 3 hrs
- Secure Software:
  - CIS 4361 Secure Operating Systems and Administration 3 hrs
  - CIS 4615 Secure Software Development and Assurance 3 hrs
  - COP 4600 Operating Systems 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all the courses used to satisfy the minor.
- Pre-requisites to the minor include Programming in C (COP 3223, EGN 3211, CET 2364, or an equivalent) and Math for Calculus (MAC 2147), or equivalent.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

SOCIAL SCIENCES - INTERDISCIPLINARY: Minor

College of Sciences
Department of Sociology, PH 403, 407-823-2227
http://www.cos.ucf.edu/sociology

E-mail: sociology@ucf.edu

Contact: J. Corzine, 407-823-2227
Not open to Social Sciences majors.

Credit Hour Requirements 21-22 hrs
Required Courses (3-4 hrs)
One method course, selected from the three immediately below
- POS 3703 Scope and Methods of Political Science 3 hrs
- PSY 3213C Research Methods in Psychology 3 hrs
- SYA 4300C Research Methods (Sociology) 3 hrs

Restricted Electives (18 hrs)
Select a minimum of six hours in each of three different disciplines below. The courses below cannot overlap with your major discipline.
- Communication
  - Economics
  - Political Science
  - Public Administration
  - Psychology
  - Sociology & Anthropology

Other Requirements
- Students must earn a grade “C” or above (2.0) in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF.
- At least 18 hours must be upper division classes.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

Minors

SECURE COMPUTING AND NETWORKS (SCAN): Interdisciplinary Minor

College of Engineering and Computer Science
CECS Academic Affairs, ENGR 107
http://www.cecs.ucf.edu

Contact: Kim Small, 407-823-2455, E-mail: ksmall@mail.ucf.edu

Credit Hour Requirements 18 hrs
Required Courses (9 hrs)
- CIS 3660 Security in Computing 3 hrs
- CIS 3662 Cryptography and Information Security 3 hrs

Select one:
- CDA 4506C Network Labs 3 hrs
- CDA 4527 Computer Communications Network 3 hrs
- CET 4483 Local Area Networks 3 hrs
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  - CET 4668 Practice of Information Security 3 hrs
  - CET 4884 Security Methods & Practices 3 hrs
  - CET 4885 Investigative Digital Technology 3 hrs
- Secure Software:
  - CIS 4361 Secure Operating Systems and Administration 3 hrs
  - CIS 4615 Secure Software Development and Assurance 3 hrs
  - COP 4600 Operating Systems 3 hrs

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- Pre-requisites to the minor include Programming in C (COP 3223, EGN 3211, CET 2364, or an equivalent) and Math for Calculus (MAC 2147), or equivalent.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

SOCIAL SCIENCES - INTERDISCIPLINARY: Minor

College of Sciences
Department of Sociology, PH 403, 407-823-2227
http://www.cos.ucf.edu/sociology

E-mail: sociology@ucf.edu

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Minors

SECURE COMPUTING AND NETWORKS (SCAN): Interdisciplinary Minor

College of Engineering and Computer Science
CECS Academic Affairs, ENGR 107
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Contact: Kim Small, 407-823-2455, E-mail: ksmall@mail.ucf.edu

Credit Hour Requirements 18 hrs
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Select one:
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- CET 4483 Local Area Networks 3 hrs
- EEL 4781 Computer Networks 3 hrs

Elective Courses (9 hrs)
Select any three courses from the following list:
- Network Security:
  - CET 4663 Computer and Network Security 3 hrs
  - or CIS 4363 Network Security and Privacy 3 hrs
- CET 4882 Network Defense Strategies 3 hrs
- Security Management and Administration:
  - CET 4668 Practice of Information Security 3 hrs
  - CET 4884 Security Methods & Practices 3 hrs
  - CET 4885 Investigative Digital Technology 3 hrs
- Secure Software:
  - CIS 4361 Secure Operating Systems and Administration 3 hrs
  - CIS 4615 Secure Software Development and Assurance 3 hrs
  - COP 4600 Operating Systems 3 hrs

Other Requirements
- A minimum GPA of 2.0 is required in all the courses used to satisfy the minor.
- Pre-requisites to the minor include Programming in C (COP 3223, EGN 3211, CET 2364, or an equivalent) and Math for Calculus (MAC 2147), or equivalent.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

SOCIAL SCIENCES - INTERDISCIPLINARY: Minor

College of Sciences
Department of Sociology, PH 403, 407-823-2227
http://www.cos.ucf.edu/sociology

E-mail: sociology@ucf.edu

Contact: J. Corzine, 407-823-2227
Not open to Social Sciences majors.

Credit Hour Requirements 21-22 hrs
Required Courses (3-4 hrs)
One method course, selected from the three immediately below
- POS 3703 Scope and Methods of Political Science 3 hrs
- PSY 3213C Research Methods in Psychology 3 hrs
- SYA 4300C Research Methods (Sociology) 3 hrs

Restricted Electives (18 hrs)
Select a minimum of six hours in each of three different disciplines below. The courses below cannot overlap with your major discipline.
- Communication
  - Economics
  - Political Science
  - Public Administration
  - Psychology
  - Sociology & Anthropology

Other Requirements
- Students must earn a grade “C” or above (2.0) in each course used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF.
- At least 18 hours must be upper division classes.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.
Minors

SOCIOMETRY: Minor
College of Sciences
Department of Sociology, PH 403
http://www.cos.ucf.edu/sociology
E-mail: sociology@ucf.edu
Contact: Jay Cozirine, 407-823-2277

Credit Hour Requirements 18 hrs
Required Courses
SYG 2000 General Sociology 3 hrs
Restricted Electives 2000-4000 level Sociology courses 3 hrs
 Restricted Upper Division Electives 2000-4000 level Sociology courses 9 hrs

Other Requirements
- Earn a minimum GPA of at least 2.0 in all courses used to satisfy the minor.
- Grades below “C” (2.0) in lower level courses are not accepted.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

SPACE STUDIES: Minor
College of Sciences
Department of Physical Sciences, PH 400
Contact: P. Giordano, 407-823-2472

Credit Hour Requirements 13 hrs
Required Courses
CHS 1440 Fundamentals of Chemistry for Engineers 4 hrs
AST 2002 Introduction to Astronomy 4 hrs
ETI 4150 Space Systems Technology 3 hrs

Restricted Electives
Select one course 3 hrs
- CHM 2045C Chemistry Fundamentals I 5 hrs
- GLY 1030 Geology and its Applications 4 hrs
- PHY 2053C College Physics I 4 hrs
- PHY 2048 Physics for Engineers & Scientists 3 hrs

Other Requirements
- Formal declaration of the minor should occur before nine credit hours have been completed.
- A minimum GPA of 2.0 is required in all courses used to satisfy the minor.
- Grades less than “C-” (1.75) are not accepted.
- At least 15 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the minor.

STATISTICS: Minor
College of Sciences
Statistics and Actuarial Science Department, CC II 212
http://www.oas.ucf.edu/statistics
E-mail: statistics@ucf.edu
Contact: Xiaogang Su, 407-823-2940

Credit Hour Requirements 18 hrs
Required Courses
STA 3032 Probability and Statistics for Engineers 3 hrs
STA 4163 Statistical Methods II 3 hrs
STA 4164 Statistical Methods III 3 hrs

Required Courses
Select one course 3 hrs
- STA 2023 Introduction to Statistics 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
Select from upper division STA prefix courses taught within the Statistics and Actuarial Science Department.
(STA 3032 cannot be used)

Other Requirements
- A minimum grade of “C” (2.0) is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.

SPION: Minor
College of Arts and Humanities
Modern Languages and Literatures, CNH 523
http://www.cas.ucf.edu/forlang/
E-mail: modernlanguage@ucf.edu
Contact: P. Giordano, 407-823-2472

Credit Hour Requirements 18 hrs
Restricted Electives

Other Requirements
- Select six upper division courses in Spanish, including the 3000-level advanced grammar (SPN 3300), advanced oral communication (SPN 3760), and composition courses (SPN 3420).
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements
- A minimum grade of “C” (2.0) is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.

SPORT BUSINESS MANAGEMENT: Minor
(*Business Majors, Business Undecided, and Business Pending only)
College of Business Administration
DeVos Sports Business Management, BA2 205
Contact: K. Harrison, 407-823-1158, E-mail: kharrison@bus.ucf.edu

Completion of Common Program Pre-requisites and Admission to a major within the College of Business Administration

Credit Hour Requirements 18 hrs
Required Courses
SPB 3003 Introduction to Sport Business Management 3 hrs
SPB 3063 Diversity and Social Issues in Sport Business Management 3 hrs
SPB 3XXX Role of Business Entrepreneurship in Sport/Ent 3 hrs
MAR 4711 Sports Marketing 3 hrs

Restricted Electives
Select one course 3 hrs
- MAN 4701 Business Ethics and Society 3 hrs
- SPB 4304 Event and Facility Management 3 hrs
- SPB 4804 Sport Business and Media 3 hrs
- MAR 3023 Marketing 4 hrs

Other Requirements:
- A minimum GPA of 2.5 is required in all courses used to satisfy the minor.
- Grades below “C” (2.0) or “S” grades.
- At least 9 hours used in the minor must be earned at UCF within the DeVos Sport Business Management Program.
- No credit by exam (CLEP, TSD, Military credit) may be used.
- In some cases, Internship, Independent Study, or Directed Research credit hours may be approved toward the minor by the Department Chair.
- A maximum of six hours of the above listed required or elective courses can count toward another major or minor degree program.

*Students can take any minor courses if they are a Business major. If they are Business Undecided or Business Pending, they can take the three SPB required courses (SPB 3003, SPB 3063, and SPB 3XXX). At the time of graduation, students will have to be a Business major to qualify for a minor in Sport Business Management.

Other Requirements:
- Select six upper division courses in Spanish, including the 3000-level advanced grammar (SPN 3300), advanced oral communication (SPN 3760), and composition courses (SPN 3420).
- A native or near-native speaker must substitute an alternate upper division course for the advanced oral communication course. Approval of a departmental advisor is required prior to registration.

Other Requirements
- A minimum grade of “C” (2.0) is required in all courses used to satisfy the minor.
- At least 15 hours used in the minor must be earned at UCF within the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor without departmental permission.
in the department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

TECHNICAL EDUCATION and INDUSTRY TRAINING: Minor
College of Education
Department of Teaching and Learning Principles, ED 209
http://reach.ucf.edu/~technicaled/
Contact: Dr. Jo Ann M. Whiteman, ED 122-T, 386-506-4041
Email: jwhitema@mail.ucf.edu

The minor in Technical Education and Industry Training provides a limited, substantive experience in the area of technical education and industry training of adults. The minor is not intended for students admitted to a degree program in the College of Education and does not lead to teacher certification or admission to the College of Education. All courses are offered solely using the Web.

Credit Hour Requirements 18 hrs
Entrance requirements

Required courses 18 hrs
- ADE 4382 Teaching Adult Learners 3 hr
- EVT 4368 Advanced Teaching Techniques in Vocational Education 3 hr
- EVT 3062 Professional role of the Vocational Teacher 3 hr
- EVT 3387 Evaluation in Vocational Education 3 hr
- EVT 4169 Curriculum Development for Industry Training 3 hr
- EVT 4065 Principles and Practices in Vocational Education 3 hr

Other requirements
- A minimum of 4 courses of the 6 required must be completed at UCF within the Program of courses listed above.
- A grade of "C" (2.0) or better must be achieved in each course used for this Minor.
- Internship, Co-op, or Independent Study credit cannot be used towards this Minor.
- No Military credit can be used toward this Minor.
- Completion of this Minor does not complete requirements for certification as a Vocational Education teacher nor does it constitute admission to the College of Education.

TECHNOLOGY AND SOCIETY: Minor
College of Engineering and Computer Science
Contact: Dr. Ronald Eaglin, ENGR 207
College of Arts and Humanities
Theatre Department, UTC 180
E-mail: theatre@ucf.edu
http://www.theatre.ucf.edu
Contact: Kristina Tollefson, 407-823-2862

Required Courses (18 hrs)

Entrance Requirement 18 hrs

A successful interview, current resume, and three letters of recommendation

Required Courses
- The number assigned to courses may change.
- Use the Prefix and title to determine the proper course.

Electives:
Any DAA, DAN, THE, TPA, or TPP course as approved by the department

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 toward the minor must be earned from the UCF Theatre Department. Transfer credits are allowed, but student must still complete 12 credits from UCF Theatre Department.
- No credit by exam (TSD, Military credit) may be used.
- Internship, Co-op, or Independent Study credit cannot be used toward the minor.

URBAN AND REGIONAL PLANNING: Minor
College of Health and Public Affairs
Department of Public Administration, HPA2 238
Contact: Robert Morin, 407-823-1190; Fax: 407-823-5651,
Email: morin@mail.ucf.edu

Urban and regional planning is one area of public administration that has seen considerable growth over the past few years. Areas like Central Florida need many professionals who assist government, communities, and private sector planning organizations to provide growth that is environmentally feasible, aesthetically attractive, socially and politically acceptable, technically sustainable, and economically dynamic. This minor looks at all of these diverse and competing interests, and provides the basics for those interested in employment in this area of great demand. Students who pursue a minor in urban and regional planning may find positions as a city planner, urban designer, planning specialist, environmental program manager, or economic development specialist, among others.

Credit Hour Requirements 21 hrs

Required Courses (21 hrs)
- The number assigned to courses may change.
- Some courses may have prerequisites not required for the student's major/minor.

Suggested Courses
Students in the Minor program are strongly encouraged to take the following courses as electives to enhance their understanding of the field.
Required Courses (6 hrs)

Credit Hour Requirements 18 hrs

Sociology, Theatre, and the Women's Studies Program.


Other Requirements

- A minimum grade of “C” (2.0) is required in each course used to satisfy the minor.
- At least 15 hours used to satisfy the minor must be earned at UCF within the department.
- Internship or Independent Study credit cannot be used toward the minor.
- No credit by exam (TSD, Military credit) may be used.

WOMEN'S STUDIES: Minor

College of Arts and Humanities

Email: womenst@ucf.edu

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

Contact: L. M. Logan, 407-823-6502

The Women's Studies minor provides students with an opportunity to learn about women's historical and contemporary roles, gain a working knowledge of interdisciplinary feminist scholarship, and reflect critically on their life experiences as shaped by gender and other forms of diversity. Courses are drawn from the departments and schools, including Anthropology, Art, Communication, Criminal Justice and Legal Studies, Film, English, Exceptional and Physical Education, Health Professions and Physical Therapy, History, Philosophy, Political Science, Psychology, Nursing, Social Work, Sociology, Theatre, and the Women's Studies Program.

Elective Courses (4 courses) (12 hrs)*

*Students must complete at least two of their four Elective courses from outside their major. Students may count additional courses from the Theories Group as Electives toward the minor. Students may use course substitutions, internship, independent study, or Special Topics credit toward the minor only with the approval of the program director. No more than one 2000-level course will count toward the minor.

Women's Studies Disciplinary Approaches

WST 3XXX Women and Leadership

WST 3500 Gender Issues in Community Activism

WST 4600 Feminist Theories

WST 4002 Research on Women and Gender

Women's History

AMH 3561 Women in American History I

AMH 3562 Women in American History II

ASH 4304 Women in China

EUN 4610 Women in European Society

Representations of Women

AML 3293 Contemporary American Women's Fiction

ARH 4802 Women in Art

COM 4014 Gender Issues in Communication

FIL 3309 Women in Film

LIT 3823 Hispanic Women Writers

PHI 3022 Sexuality, Gender & Philosophy

Women's Wellness

CLP 3184 Women's Mental Health

NUR 4058 Women's Health Issues

PEN 2405 or Self Defense for Women and Men

SOP 2772 Sexual Behavior

SOP 3742 Psychology of Women

Women and Social Policy

ANT 3302 Sex, Gender and Culture

ANT 4308 Women and Gender Issues in Lat Am

CCJ 4670 Women and Crime

CCJ 4681 Domestic Violence and Justice System

CPO 4710 Women and Comparative Politics

INR 4085 Women, Gender, and Globalization

PUP 3225 Women and Political Behavior

PUP 4232 Women and Public Policy

SYD 3751 North American Indian Women Today

SYD 3800 Sex Roles in Modern Society

SYD 4810 Women in Contemporary Society

SYD 4813 Women and Social Policy

SYO 4100 Family Trends

Other Requirements

- Minimum grade of “C” (2.0) is required in each course used to satisfy the minor.
- At least 12 hours used in the minor must be earned at UCF.
- No credit by exam (TSD, military credit) may be used.

WORLD COMPARATIVE STUDIES: Minor

Office of Interdisciplinary Studies

http://www.is.ucf.info

Contact: Interdisciplinary Studies Advising Team, 407-823-0144

The World Comparative Studies (WCS) minor is an interdisciplinary academic program intended to prepare students to live and work in, and make sense of, an increasingly interdependent and multicultural world. Students with an interest in international studies, as well as careers in business, communications, economics, education, environmental science, history, and politics, are invited to consider the minor as a supplement to their major.

All students must engage in an approved international experience. The language proficiency requirement must also be met.

Total Credit Hour Requirements (18 hrs)

Foundation Requirement (3 hrs)

IDS 3333 World Comparative Studies

Thematic Concentrations Restricted Electives (15 hrs)

Select five courses from within one of the five concentrations (A-F) below. Courses not on the list may be taken with the prior approval of the program advisor. Students must meet all prerequisites before enrolling in these courses. No more than 6 hours of coursework may overlap in a student’s major and this minor, with permission of the Interdisciplinary Studies office. Two upper division foreign language courses (6 hours) may be substituted in any of the thematic concentrations.

A. Language and Culture

AML 3615 Harlem, Haiti, and Havana

ANT 3640 Language and Culture

ANT 3145 Archaeology of Complex Societies

ANT 3319 The Anthropology of Diaspora

ANT 3212 Peoples of the World

ANT 4702 Culture, Power and Development

FSS 3008 Culture and Cuisine

HFT 4866C Exploring Wines of the World

HFT 3868 History and Culture of Wine

HFT 4894 International Gastronomy

HUM 3419 Islamic Thought and Culture

Regional courses: Students may take up to two courses dealing with at least two regions of the world in consultation with academic advisor in the Office of Interdisciplinary Studies.

B. Economics

ANT 4702 Culture Power and Development

ECO 3703 International Trade

ECO 4XXX International Macroeconomics

EEO 4701 Seminar in Global Economic Policy

ECS 4013 Economics of Developing Areas

ECP 3303 Economics and the Environment

HFT 3700 Tourism Management

HFT 4035 International Political Economy

C. Biological and Geophysical Environment

IDS 3150 Foundations of Environmental Studies

ECP 3303 Economics and the Environment

SYD 4510 Environmental Sociology

HFT 4735 Tourism Geography

INR 4361 International Environmental Law

ENV 3001 Intro to Environmental engineering

GIS 3040 GIS for Environmental Studies

GIS 4050 Remote Sensing of the Environment

PHI 3033 Philosophy, Religion, and the Environment

PHI 3640 Environmental Ethics

D. Social Structure and Change

ANT 3145 Archaeology of Complex Societies
Minors

E. Media and Communication
- FIL 3510: World Cinema Traditions
- FIL 3514: International Cinema
- FIL 4564: Africana Cinema
- COM 4461: Intercultural Communication
- LIN 4643: Cross Cultural Communication
- THE 3312: Global Theater

F. World Independent Specialization
Any five upper division courses from the approved list of courses in any thematic concentration may be selected for this option with approval of the Interdisciplinary Studies office.

Foreign Language Proficiency Requirement (0-8 hrs)
Students must demonstrate the equivalent of one year of successful college-level study in a foreign language. They can do this either by successful completion of the appropriate college-level course(s) or by examination.
ADDITIONS: Certificate
College of Health and Public Affairs
School of Social Work, HPA1 204
E-mail: socialwk@mail.ucf.edu
BSW Coordinator: 407-823-2114

This certificate is open only to students in the undergraduate social work program (BSW). Addiction courses may be taken as electives by non-majors and be applied to the state certification. The Addictions Certificate is designed to prepare students to work in the field of addictions. This certificate addresses the role and significance of addictions on crime rates, health care, disabilities, human services, traffic safety, sexual assault, domestic violence and child abuse, the workplace and cost to the employers. Addictions have a profound impact on the lives of many people, their families, and their communities. Students will learn about patterns of addictions in society and prevention and intervention strategies. The certificate program includes academic work through courses in social work skills in the area of addictions. The certificate program will enable students to earn credit toward their certification through the Certification Board for Addiction Professionals of Florida but not the certificate program.

Admission Requirement:
This certificate is only open to students in the undergraduate social work program (BSW). Students not in the social work program but enrolled in their junior or senior year at UCF may take the addiction courses to be applied toward their state certification through the Certification Board for Addiction Professionals of Florida. Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements:
12 hrs

Required Courses:
- SOW 4705 Interventions with Substance Abusers 3 hrs
- SOW 3552 Practice II: Interpersonal Skills 3 hrs
- SOW 4341 Micro-Level Roles and Interventions 3 hrs

Restricted Electives:
Select from one of the following:
- SOW 4705 Prevention and Treatment of Adolescent Substance Abuse 3 hrs
- SOW 4906 Independent Study in Addictions – (i.e. Women in Treatment, Drug Control Policy, etc.; Can be taught by any faculty teaching one of the above courses) 3 hrs
- CCJ 4651 Drugs and Crime 3 hrs

AGING STUDIES: Undergraduate Certificate
College of Health and Public Affairs
School of Social Work, HPA1 204
E-mail: socialwk@mail.ucf.edu
BSW Coordinator: HPA1 407-823-2114

In recognition of the special needs of the older adults in Central Florida, the University offers a fifteen-hour interdisciplinary program leading to a Certificate in Aging Studies. The certificate is open to all students in any major. The program may be a particular interest to students who are majoring in health sciences, psychology, social work, nursing, sociology, business, exercise science, physical education, or art education. Students may complete the Aging Studies certificate (with the exception of the internship requirement) as a fully web-based program. Students must contact the coordinator to plan their internship in the semester prior to the semester they intend to complete the internship. Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements:
15 hrs

Required Course
- GEY 3001 Gerontology: Interdisciplinary Overview 3 hrs

Required Internship: (Select one)
- SOW 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 College and at least one course must be outside their college).

College of Health and Public Affairs
HSA 4220 Long Term Care 3 hrs
HSA 3222 Long Term Administration 3 hrs
HSC 4564 Health Care Needs of the Elderly 3 hrs
NUR 4286 Gerontologic Nursing 3 hrs
PLA 4930 Legal Issues of the Elderly 3 hrs
SOW 4645 Social Services for the Elderly 3 hrs

Other Colleges:
- DEP 3464 Psychology of Aging 3 hrs
- SYP 4730 Sociology of Aging 3 hrs
- GEY 5007 Women and Aging 3 hrs
- LIT 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” (2.0) are not accepted.
- At least 12 hours used in the certificate must be earned at UCF within the department.
- No credit by exam (TSD, Military credit), may be used.
- Independent Study cannot be used toward the minor.

AMERICAN SIGN LANGUAGE (ASL): Certificate
College of Health and Public Affairs
Department of Communication Sciences and Disorders, HPA2, Suite 101
http://www.cohpa.ucf.edu/comdis
Chair: R. Jane Lieberman, 407-823-4798; Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798, E-mail: jschwartz@mail.ucf.edu

This certificate is designed to provide students with the conversation- al competency in ASL to communicate with deaf and hard of hearing individuals who use ASL as their primary mode of communication. In addition, students completing the certificate program would have the prerequisite skills to seek further instruction in Interpreter Education. More specifically, the certificate program is designed for individuals who wish to enhance their ability to communicate with the Deaf community and to enhance their employment potential, including undergraduate students majoring in communication sciences and disorders, general and special education, psychology, theater, the health professions, and other disciplines; students at area community colleges; professionals working in Central Florida; and the general public.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements
16 hrs

Required Courses:
- SPA 2612 Introduction to American Sign Language 4 hrs
- SPA 2613 Intermediate American Sign Language 4 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.
- Students must earn an overall GPA of 2.0 in courses used to complete the certificate.
- At least 8 hours used in the program must be earned at UCF with the Department of Communication Sciences and Disorders.
- No credit by exam (TSD, Military credit) Internship or Independent Study credit may be used toward the certificate.

BEHAVIORAL FORENSICS: Certificate
College of Sciences
Psychology Department, PSY 301
http://www.psych.ucf.edu/
E-mail: kmottare@ucf.edu
Contact: Dr. Mottarella, 321-433-7982

Credit Hour Requirements
27 hrs

Prerequisite Courses
(6 hrs)
Complete one introductory course
- GEP
- PSY 2012 General Psychology or
- SYG 2000 General Sociology
PPE 3003 Personality Theories 3 hrs
SYP 3510 Soc of Deviant Behavior 3 hrs

Required Courses (12 hrs)
CLP 4390 Forensic Psychology 3 hrs
SOP 3751 Legal Aspects of Psych 3 hrs
SYP 3520 Criminology 3 hrs

Select one course:
SYP 3540 Sociology of Law 3 hrs
SYD 4813 Women and Social Policy 3 hrs

Restricted Electives (9 hrs)

Note: It is the student's responsibility to meet all prerequisites for every course selected.

From Psychology, select one of the following:
CLP 3143 Abnormal Psychology 3 hrs
CLP 3302 Clinical Psychology 3 hrs
CLP 4134 Childhood Psychopathology 3 hrs
POC 4203 Interviewing and Counseling 3 hrs

From Sociology, select one of the following:
SYP 3511 Sociology of Murder 3 hrs
SYP 3530 Juvenile Delinquency 3 hrs
SYP 3562 Soc Perspectives on Domestic Violence 3 hrs
SYP 4521 Criminalization in Society 3 hrs
SYP 4514 Sociology of Violence 3 hrs
SYP 4536 Gangs and Society 3 hrs

From Criminal Justice, select one of the following:
CCJ 3014 Crime in America 3 hrs
CCJ 3024 Criminal Justice System 3 hrs
CCJ 4670 Women and Crime 3 hrs
CJE 4630 Serial Murder & CJ 3 hrs
CJE 4616 Criminal Profiling in CJ 3 hrs
CCJ 3667 Victims and the CJ System 3 hrs
CCJ 4681 Domestic Violence & the Justice System 3 hrs
CCJ 4690 Sex Offenders & the CJ System 3 hrs

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 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.

CHILDREN’S SERVICES: Certificate
College of Health and Public Affairs
School of Social Work, HPA1 204
E-mail: socialwk@mail.ucf.edu
BSW Coordinator: 407-823-2114

This certificate is open only to students in the undergraduate social work program. The Children’s Services Certificate is designed to help students learn about the various components of the child welfare system and how that system impacts children and families. Students are prepared to identify child welfare problems such as child abuse and neglect experienced by children and families and are taught basic skills in working with families and with the child welfare system. The certificate includes both classroom academic work and a specialized field internship. The program is a joint effort between the Schools of Social Work in Florida and the Department of Children and Families to improve services to children and their families.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 18 hrs

Required Courses
SOW 3352 Practice II: Interpersonal Skills 3 hrs
SOW 4654 Children's Services 3 hrs
SOW 4650 Child Abuse: Treatment & Prevention 3 hrs
SOW 4510 Field Education* 9 hrs

*Placement with the Department of Children and Families working with children or placement in an agency that serves children.

Note: Students need to discuss their interest in the certificate with the field office while arranging for their BSW placement.

CRIME ANALYSIS AND CRIME MAPPING: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies
HPA 311
Contact: 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. Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs

Required Courses (in sequence) (9 hrs)
CJE 3662 CJ Information Technology and Data Management 3 hrs
CJE 4653 Crime Analysis I 3 hrs
CCJ 4076 Crime Analysis II 3 hrs

Restricted Upper Division Electives (6 hrs)
Select two of the following:
CCJ 3451 Justice System Technology 3 hrs
CJE 3444 Crime Prevention 3 hrs
CJE 4654 Crime and Place 3 hrs
CCJ 3450 Criminal Justice Manager 3 hrs
CCJ 4454 Policy Development in Law Enforcement 3 hrs
CCJ 4459 Justice Agency Operations 3 hrs

Other Requirements
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF within the Department of Criminal Justice.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit may not be used toward the program.

CRIME SCENE INVESTIGATION: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies
HPA 311; Department of Sociology and Anthropology, PH 403
Contact: David Fabianic, 407-823-5940, E-mail: Fabianic@mail.ucf.edu; Dr. Mary Ann Eastep, 407 823-3598, E-mail: meastep@mail.ucf.edu; John J. Schultz, 407-823-2618, E-mail: jschultz@mail.ucf.edu

Crime scene processing is increasingly becoming a multi-disciplinary endeavor with the application of technologically advanced methods. Treatment of the initial crime scene is fundamental not only to the pursuit of offenders but also to the presentation of the prosecutor’s case once offenders have been apprehended. The certificate program is a means of organizing information required to perform basic crime scene investigations. It provides theoretical and practical information used to assess crime scenes, the technology available and the procedures to employ in order to produce a forensically valuable product. The program requires 15 credit hours of undergraduate work. Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs

Required Courses (12 hrs)
ANT 4521C Forensic Anthropology 3 hrs
ANT 4101 Archaeological Sciences 3 hrs
CCJ 4615 Criminal Profiling in CJ 3 hrs
CJT 4100 Criminal Investigation 3 hrs

Restricted Upper Division Electives (3 hrs)
Select one of the following:
ANT4528C Advanced Forensic Anthropology 5 hrs
SYP 3511 Sociology of Murder 3 hrs
CJE 4630 Serial Murder and the Criminal Justice System 3 hrs
CCJ 4195 Interviews and Interrogations in CJ 3 hrs
CHS 3501 Introduction to Forensic Science 3 hrs
ANT 3115 Archaeological Method and Theory 3 hrs

Other Requirements
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF.
CRIMINAL PROFILING: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies
HPA1 311
Contact: Dr. Mary Ann Eastep, 407 823-3598,
E-mail: meastep@mail.ucf.edu

New and more sophisticated techniques and tools of criminal investigation are being developed to assist in meeting the challenges facing today's law enforcement officers. One area that is becoming formalized in law enforcement is criminal profiling. The certificate program in Criminal Profiling is a way of organizing the fundamental information and education required for profiling. It provides both the theoretical and practical information related to the types of crimes for which profiling is most useful. The program requires 15 credit hours of undergraduate work.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs
Required Courses (12 hrs)
- CLP 3143 Abnormal Psychology 3 hrs
- CJE 4630 Serial Murder and the Criminal Justice System 3 hrs
- CCJ 4690 Sex Offenders and the Criminal Justice System 3 hrs
- CCJ 4616 Criminal Profiling in Criminal Justice 3 hrs

Restricted Upper Division Electives (3 hrs)
Select one of the following:
- CJT 4100 Criminal Investigation 3 hrs
- CCJ 4661 Terrorism 3 hrs
- CCJ 4195 Interviews and Interrogations in CJ 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.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the certificate.

CULTURAL TOURISM: Certificate
Office of Interdisciplinary Studies
CL-I, Room 302, E-mail: ls@mail.ucf.edu
http://www.is.ucf.edu

Contact: Interdisciplinary Studies Advising Team, 407-823-0144

This certificate harnesses the naturally related fields of tourism to cultural studies, focusing on the specific cultural and business conditions in Central Florida as well as tourism. The certificate complements several fields, including hospitality management, African American Studies, history, anthropology, and political science. The cultural theme can be fulfilled by specialized areas in African American Heritage, Anthropology, Environmental Tourism, or Latin Cultural Heritage.

Credit Hour Requirements 18 hrs
Required Courses (12 hrs)
- HFT 3540 Guest Service Management 3 hrs
- HFT 3700 Tourism Management 3 hrs
- HFT 4735 Tourism Geography 3 hrs
- ANT 4438 Anthropology of Tourism 3 hrs

Choose two classes from one of the following areas (6 hrs)
- African American 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

Choose two classes from one of the following areas (6 hrs)
- Latin American area (choose two classes)
  - ANT 3163 Meso American Archaeology 3 hrs
  - ANT 3168 Maya Archaeology 3 hrs
  - ANT 4332 Peoples and Cultures of Latin America 3 hrs
  - ANT 4340 Caribbean Archaeology 3 hrs
  - ARH 4655 Meso American Art 3 hrs
  - CPO 4303 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.
- Internship or Co-op credit can not be used toward the certificate without prior permission of the program director.

DIGITAL MEDIA: Certificate
College of Arts and Humanities
Digital Media, 500 OTC
http://www.dm.ucf.edu
E-mail: digitalmedia@dm.ucf.edu

Digital Media Head: David Vickers, 407-823-6110

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 Media Certificate requires evaluation of a portfolio of work which demonstrates the student’s creativity and technical accomplishment in some artistic or technical domain.
- All evaluations are conducted by the division’s curriculum committee.

Credit Hour Requirements:
Required Course: (3 hrs)
- DIG 3525 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)
- DIG 4524L Digital Media Project I 3 hrs
- DIG 4528 Digital Media Project II 3 hrs
(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.

FINANCE: Certificates*
College of Business Administration
BA 409
http://www.bus.ucf.edu/finance

Restricted to finance majors
Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 12-15 hrs
Certificate in Banking
Certificate in Banking 15 hrs
- FIN 4313 Management of Financial Institutions 3 hrs
- FIN 4324 Commercial Bank Management 3 hrs
- ACG 3131 Financial Accounting Concepts & Analysis 3 hrs
- ACG 3141 Intermediate Financial Accounting 3 hrs
- MAR 3391 Professional Selling or 3 hrs
- FIN 4941** Internship 3 hrs

An internship must be a paid internship with a financial services firm, and must be approved by the Department of Financial Internship coordinator and a banking faculty member. Both MAR 3391 and FIN 4941 are recommended if the student’s schedule...
Certificates

LANGUAGE DEVELOPMENT AND DISORDERS:
Certificate
College of Health and Public Affairs
Department of Communication Sciences and Disorders,
HPA2, Suite 101
http://www.cohpa.ucf.edu/comdis
Chair: R. Jane Lieberman, 407-823-4798;
Undergraduate Coordinator: Jamie B. Schwartz, 407-823-4798,
E-mail: jschwartz@mail.ucf.edu

Language disorders are the most prevalent communication disorder. Typically, children, adolescents and adults with language disorders are served via a team approach that includes speech-language pathologists, psychologists, neurologists, pediatricians, nurses, social workers, physical therapists, occupational therapists, school counselors, and general and special educators. This certificate is designed for undergraduate students and practitioners in disciplines related to speech-language pathology who wish to pursue a special emphasis in language development and disorders in children, adolescents and adults.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 13 hrs

Required Courses
LIN 3716 Language Development: Birth Through 8 Years 3 hrs
LIN 3717 Language Development: 9-18 Years 3 hrs
LIN 4711 Language Analysis 3 hrs
LIN 4711L Language Analysis Lab 1 hr
SPA 4400 Language Disorders Across the Life Span 3 hrs

Other Requirements
- A minimum grade of “C-” (1.75) is required in each course.
- Students must earn an overall GPA of 2.0 in courses used to complete the certificate.
- At least 10 hours used in the program must be earned at UCF with the Department of Communication Sciences and Disorders.
- No credit by exam (TSD, Military credit) internship or independent study credit may be used toward the certificate.

MARKETING: Certificates
College of Business Administration
Department of Marketing, BA2 3075

*Restricted to Marketing majors 6 hrs
Certificates will be awarded only at the time of degree completion.

Certificate in Selling and Sales Management
MAR 3403 Sales Force Management
**MAR 4941 (internship in sales-related position)

Certificate in Retailing Management
MAR 4231 Retailing Management
**MAR 4941 (internship in retail-related position)

Certificate in e-Marketing
MAR 3880 e-Marketing
**MAR 4941 (internship in “e”-related position)

Certificate in Sport Marketing Management
MAR 4711 Sport Marketing
**MAR 4941 (internship in sport-related position)

Certificate in Healthcare Marketing
MAR 4712 Healthcare Marketing
**MAR 4941 (internship in healthcare-related position)

Certificate in Services Marketing
MAR 4841 Services Marketing
**MAR 4941 (internship in services-related position)

Certificate in Entertainment Marketing
MAR 4715 Entertainment Marketing
**MAR 4941 (internship in entertainment-related position)

*These six hours count as the six elective marketing hours required in the major.
**Certificate attainment is subject to the availability of internship opportunities in the area of interest.
Certificates

NONPROFIT MANAGEMENT: Certificate
College of Health & Public Affairs
Department of Public Administration, HPA2 238
http://www.cohp.ufl.edu/pubadm/
Contact: Dr. 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. Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements
15 hrs
Required Courses
18 hrs
PAD 4144 Nonprofit Organizations 3 hrs
PAD 4148 Volunteer Management 3 hrs
PAD 4147 Resource Dev. in the Nonprofit Sector 3 hrs
PAD 4225 Program Eval. Public & Nonprofit Org 3 hrs
PAD 4153 Strategic Planning & Implementation 3 hrs
Restrictive Elective Course
Select one of the following:
PAD 4325 Program Eval. Public & Nonprofit Org 3 hrs
PAD 4147 Resource Dev. in the Nonprofit Sector 3 hrs
PAD 4153 Strategic Planning & Implementation 3 hrs
See advisor for approved courses.

Other Requirements
- A minimum grade of “C” (2.0) is required in each course.
- Students must earn a 2.0 ("C") for credit to be accepted.
- At least 12 hours used in the program must be earned at UCF within the Department of Public Administration.

REAL ESTATE: Certificates*
College of Business Administration
Dr. P. Phillips School of Real Estate, BA 409
http://www.bus.ucf.edu/finance
Credit Hour Requirements
15 hrs
Certificates will be awarded only at the time of degree completion.

Certificate in Real Estate Brokerage
Completion of this certificate qualifies a student to sit for the Florida real estate sales license.
REE 3043 Fundamentals of Real Estate 3 hrs
REE 3433 Real Estate Law 3 hrs
REE 4303 Real Estate Investing Analysis 3 hrs
MAR 3391 Professional Selling 3 hrs
REE 4941 Internship (real estate brokerage) 3 hrs

Certificate in Real Estate Appraisal
Completion of this certificate qualifies a student to sit for the Florida real estate appraiser’s license.
REE 3043 Fundamentals of Real Estate 3 hrs
REE 3433 Real Estate Law 3 hrs
REE 4303 Real Estate Appraisal and Valuation 3 hrs
MAR 3391 Professional Selling 3 hrs
REE 4941 Internship (real estate appraisal) 3 hrs

Certificate in Mortgage Brokerage
Completion of this certificate qualifies a student to sit for the Florida mortgage broker’s license.
REE 3043 Fundamentals of Real Estate 3 hrs
REE 3433 Real Estate Law 3 hrs
REE 4204 Residential Real Estate Finance 3 hrs
MAR 3391 Professional Selling 3 hrs
REE 4941 Internship (mortgage brokerage) 3 hrs
*Restricted to real estate majors. These certificates do not require additional hours beyond the BSBA real estate major program. They are intended to allow students to develop specializations in specific areas of interest and to prepare for licensing exams.

SECURITY MANAGEMENT: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies, HPA 311
Contact: 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. Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements
15 hrs
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
Restrictive Upper Division Electives
Select one of the following:
CCJ 4661 Conflict and Terrorism 3 hrs
CJE 3444 Crime Prevention 3 hrs
CJT 3842 Special Security Problems 3 hrs
PLA5937 Seminar in Contemporary Legal Problems 3 hrs
PLA3273 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.

SERVICE-LEARNING: Certificate
Office of Undergraduate Studies
Experiential Learning, PH 208
http://www.service.learning.ucf.edu
Contact: S. Dressler, 407-823-5000, E-mail: EL@mail.ucf.edu
The certificate program in Service-Learning is designed for students in any discipline who seek to engage in a reflective analysis of community service as it relates to academic course work. Service-Learning furthers the learning objectives of the academic course, addresses community needs, and requires students to reflect on their activity in order to gain an appreciation for the relationship between civics and academics. Through Service-Learning (SL) courses, students develop academic skills, civic responsibility, and career opportunities. This certificate is open to all undergraduate and graduate students in any major.

Credit Hour Requirements
12 hrs
Course Requirements:
4 UCF-approved SL courses
Students may choose any four (4) of the UCF-approved service-learning courses in any discipline to satisfy the credit hour requirements. Service-Learning courses are designated with an “SL” and can be accessed under “special groups” in the class schedule.

Other Requirements
- Minimum GPA of 2.5 in UCF-approved SL classes.
- Minimum of 60 community service hours in four (4) UCF-approved SL classes.

SUBSTITUTE TEACHING: Certificate
College of Education
Department of Educational Studies, ED 206 E
http://www.edcollege.ucf.edu/eddepart
Program Coordinator: Dr. Mutoni Musangali, ED 206E, 407-823-6579, E-mail: mutoni@mail.ucf.edu
The Substitute Teaching Certificate is designed for undergraduates who want to prepare themselves for substitute teaching assignments in PK-12 schools. The certificate 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
Certificates

TRANSLATION AND INTERPRETATION: Certificate
College of Arts and Humanities
Modern Languages and Literatures, CNH 505
http://www.cas.ucf.edu/forlang
E-mail: foreinglanguage@ucf.edu
Contact: Maria Redmon, CNH 512, 407-823-5738,
E-mail: mredmon@mail.ucf.edu

Credit Hour Requirements 18 hrs
Required Skills
Students must pass an oral exam for proficiency in Spanish and English before being admitted to the certificate program.

Required Courses (12 hrs)
- SPT 3800 Spanish Translation and Interpretation 3 hrs
- SPT 3805 Spanish Trans & Interp for Mass Com 3 hrs
- SPT 3809 Medical Span Trans/Interp 3 hrs
- SPT 3831 Spanish Legal Trans/Interp 3 hrs

Restricted Upper Division Electives (6 hrs)
- SPN 3922 Spanish Across the Curriculum 3 hrs
- SPN 3941 Internship 3 hrs
Any upper division SPN or SPT course with advisor's approval

Other Requirements
- A minimum GPA of 2.0 is required in all courses used to satisfy the certificate.
- No credit by exam (CLEP, Military credit) may be used. Transfer credits from other universities will be considered.
- Grades of "C" or below will not be counted toward the Women's Studies Minor.
- Internship or Independent Study credit cannot be used toward the certificate.

WOMEN’S STUDIES: Certificate
College of Arts and Humanities
Women’s Studies Program, CNH 201H
http://www.cas.ucf.edu/womensstudies
Email: womenst@ucf.edu
Contact: L. M. Logan, 407-823-6502,

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 hrs
Required Course: (3 hrs)
- WST 3015 Introduction to Women’s Studies

Electives (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)
Internship 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 of "C" or below will not be counted toward the Women’s Studies Minor.
- At least 9 hours used in the certificate must be earned at UCF.

VICTIM ADVOCACY: Certificate
College of Health and Public Affairs
Department of Criminal Justice and Legal Studies
HPA1 311
Contact: Dr. Mary Ann Eastep, 407-823-3598,
E-mail: meastep@mail.ucf.edu

The Criminal Justice System can be difficult for crime victims to navigate. This Certificate in Victim Advocacy provides a theoretical and practical knowledge base for professionals in various fields who work or plan to work with and advocate for crime victims. The program requires 15 hours of undergraduate work. Courses are offered by the Department of Criminal Justice and Legal Studies, the College of Nursing, the Department of Sociology, and the School of Social Work.

Certificates will be awarded only at the time of degree completion.

Credit Hour Requirements 15 hrs
Required Courses (9 hrs)
- CCJ 3667 Victims and the CJ System 3 hrs
- CCJ 4670 Women and Crime 3 hrs
- CCJ 4681 Domestic Violence and the CJ System 3 hrs

Restricted Upper Division Electives (6 hrs)
Select two of the following:
- SYP 4521 Criminal Victimization in Society 3 hrs
- NUR 4196 Crisis Intervention 3 hrs
- SOW 4754 Forensic Social Work Theory and Practice 3 hrs
- CCJ 4554 Delinquency Control 3 hrs
- CCJ 4690 Sex Offenders and the Criminal Justice System 3 hrs
- CCJ 4463 Cultural Diversity in Criminal Justice 3 hrs

Other Requirements
- A minimum overall GPA of 2.0 is required in courses used to satisfy the certificate.
- At least 12 hours used in the program must be earned at UCF.
- No credit by exam (TSD, Military credit) may be used.
- Internship or Independent Study credit cannot be used toward the certificate.
The Office of International Studies (OIS) serves as a bridge that connects UCF students and faculty to diverse world communities. As a University level office, the OIS focuses on creating a trans-national understanding of the social, economic, cultural, environmental, and political realities of the 21st Century. The OIS, the Office of the Special Assistant to the President for Global Perspectives, the International Services Center and the Center for Multilingual, Multicultural Studies work together to provide a concerted effort to implement the university’s broader strategic plan for internationalization.

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

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

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

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

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

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

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

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

(B.S.A.E./M.S.A.E. or M.S.M.E.)

College of Engineering and Computer Science
Mechanical, Materials, and Aerospace Engineering Department

ENGR 307, 407-823-2416; Fax: 407-823-0208,
http://www.mmae.ucf.edu

Admission Guidelines
- See Common Program Prerequisites
- Qualified students may apply after completion of a minimum of 64 credit hours
- Completion of no more than 96 credit hours
- Completion of the GRE with a highly competitive score by the end of first semester of the senior year
- Admission is not automatic. Interested students may need to be interviewed.

1. UCF General Education Program (36+2 hrs)
(See Aerospace Engineering major in this catalog for track specific GEP requirements)

2. Common Program Prerequisites (CPP’s) (19 hrs)
(See Aerospace Engineering major in this catalog for the CPP requirements)

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.

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 3 hrs
EGN 3343 Thermodynamics 3 hrs
EMA 3706 Structure & Properties of Aerospace Materials 3 hrs
EGN 3373 Principles of Electrical Engineering 3 hrs
STA 3032 Probability & Statistics for Engineers GEP
EAS 3010 Fundamentals of Aerospace Flight 3 hrs
EAS 3101 Aerodynamics I 3 hrs
EAS 3800C Aerospace Engineering Measurements 3 hrs
EAS 3810C Design of Aerospace Experiments 2 hrs
EAS 4105 Flight Mechanics 3 hrs
EAS 4134 High-Speed Aerodynamics 3 hrs
EAS 4200 Flight Structures 3 hrs
EAS 3320 Space Systems Concepts or EAS 4400 Spacecraft Attitude Dynamics 3 hrs
or EAS 4505 Orbital Mechanics 3 hrs
EAS 4300 Aerothermodynamics-Propulsion Sys 3 hrs
EML 4324C Feedback Control 3 hrs
EGM 3601 Solid Mechanics 3 hrs
EAS 4210 Space Structural Design 3 hrs

4. Approved Technical Electives (10 hrs)
Technical electives should be taken at the 5000 or 6000 level and are available in the BSAE program to address specific student interests in a variety of technical areas. Students must consult with their assigned academic advisor for a list of the approved technical electives and the semesters when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)
- EAS 4700C Aerospace Design I
- or EGN 4412C Interdisciplinary Design I 3 hrs
- EAS 4710C Aerospace Design II
- or EGN 4413C Interdisciplinary Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

7. University Minimum Graduation Requirements
- A 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 (B.S.A.E) 128 hrs

8. Shared B.S.A.E./M.S.A.E. or M.S.M.E. 10-12 hrs
Up to 12 credit hours of approved 5000 and 6000 level courses of grades B (3.0) or better may be counted towards the BS and Masters degrees. These 12 credit hours will meet either technical elective or course requirements for the major. Contact the Graduate Coordinator in the Mechanical, Materials, and Aerospace Engineering department for a list of acceptable courses.

9. Areas of Study M.S.A.E. or M.S.M.E. 18-20 hrs
Students must complete all requirements within the masters program that they are admitted to. See the list below for possible options.
Detailed information regarding course and graduation requirements can be located in the graduate catalog. Students have an end of program option of (1) Thesis or (2) non thesis (see graduate catalog for a detailed description of these options).

- Computer–Aided Mechanical Engineering Track
  Mechanical Systems Track
  Miniature Engineering Systems Track
- Professional Track
- Space Systems Design and Engineering Track
- Thermofluid Aerodynamic Systems Design and Engineering Track
- Thermofluids Track

Total Semester hours (B.S. A.E./M.S.A.E. or M.S.M.E.) 146-148 hrs

The baccalaureate degree will be awarded when program requirements for the BS are met and students have completed a minimum of 128 hours of credit. Students will then be reclassified as graduate students. The MSAE or MSME 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 graduate courses must not register for more than a total of twelve hours in that semester
- Undergraduate students are not eligible to take 6000-level courses

COMMUNICATION SCIENCES AND DISORDERS ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A./B.S. and M.A.)

College Of Health and Public Affairs
Department of Communication Sciences and Disorders
HPA II, Suite 101, 407-823-4798,
Bachelor's program E-mail: comdisug@mail.ucf.edu;
Master's program E-mail: comdisma@mail.ucf.edu
http://www.cohpa.ucf.edu/comdis/

Purpose of this program - This program allows highly qualified undergraduate majors in communication sciences and disorders to enroll in 18 credit hours of graduate-level courses while completing the bachelor's degree. This enables full-time students to achieve a master's degree in one to two fewer semesters.
Accelerated Undergraduate-Graduate Programs

Admission requirements
- Completion of the junior year of course work in communication sciences and disorders.
- 3.5 GPA or better in courses in the major.
- 1000 on the combined verbal and quantitative sections of the Graduate Record Examination and a score of at least 500 on the verbal section.
- Completion of a graduate application, including three letters of recommendation from faculty in the department, and a letter of intent which indicates reasons for desiring entrance into the accelerated program, personal strengths and how they have been demonstrated, and future goals.
- Students who achieve a “B” or better for all 18 credit hours of graduate course work will be formally admitted into the master’s program in communication sciences and disorders following receipt of the bachelor’s degree.

Degree Requirements

1. UCF General Education Program (36 hrs)
   - A. Communication Foundations 9 hrs
   - B. Cultural Historical Foundations 9 hrs
   - C. Mathematical Foundations 6 hrs
   - Prefer MGF 1106 Finite Math
   - Select STA 2014C or STA 2023

2. Core Requirements (48-51 hrs)
   - DEP 2004 Developmental Psychology 3 hrs
   - SPA 3471 Communication Disorders in Literature and Media 3 hrs
   - SPA 3101 Physiological Bases of Speech and Hearing 3 hrs
   - SPA 3112 Basic Phonetics 3 hrs
   - SPA 312LL Basic Phonetics Lab 1 hr
   - LIN 3716 Language Development: Birth Through 8 Years 3 hrs
   - SPA 3011 Speech Science I: Speech Production 3 hrs
   - SPA 3011L Speech Production Lab 1 hr
   - LIN 3717 Language Development: 9-18 Years 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 4032 Audiology 3 hrs
   - LIN 4711I Language Analysis 3 hrs
   - LIN 4711LL Language Analysis Lab 1 hr
   - SPA 4321 Aural Habilitation: Rehabilitation 3 hrs
   - SPA 4478 Multicultural Aspects of Communication 3 hrs
   - EAB 3703 Principles of Behavior Modification or
   - EEX 4601 Introduction to Behavior Management or
   - EEC 4604 Guidance of Young Children or
   - EDF 3303 Learning Environments and Guidance for Young Children or
   - SPA 3472 Guidance of Young Children 3 hrs
   - SPA 4056C Clinical Methods in Communication Disorders 5 hrs

3. Core Requirements (36 hrs)
   - STA 2023 Statistical Methods I GEP and 3 hrs
   - STA 4163 Statistical Methods II or 3 hrs
   - STA 2014C Principles of Statistics (GEP) or 3 hrs
   - STA 2023 Statistical Methods I and 3 hrs
   - SPA 4803 Research in Communication Disorders 3 hrs

4. Electives (6 hrs min)
   - B.A. Option
   - Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year in college.
   - B.S. Option
   - Students pursuing the B.S. degree must complete two upper division health science courses (six credit hours) approved by the Department.

5. Shared Bachelor’s and Master’s Courses (18 hrs)
   - SPA 6404 Preschool Language Disorders 3 hrs

6. 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 2014C or STA 2023 to fulfill the first part of the statistics requirement.

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. American Sign Language (ASL) can be used to fulfill the foreign language admission requirement.
   - Graduation: Students pursuing the B.A. degree must demonstrate proficiency in a foreign language equivalent to one year. ASL I, II, and III can be used to fulfill this requirement.

8. Departmental Exit Requirements
   - A minimum grade of “B” in all graduate courses.
   - A minimum GPA of 3.0 in the courses used to satisfy the major.
   - A passing score on the Communication Sciences and Disorders Undergraduate Competency Examination.

9. University Minimum Exit Requirements (120 hrs)
   - A 2.0 UCF GPA
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 50 of the last 36 hours of course work must be completed in residency at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required: 120 hrs

10. Courses taken toward Master’s Degree
   - In the Accelerated Program, students may elect to enroll in either SPA 5473, which replaces SPA 4478, or SPA 6805, which replaces SPA 4803.

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


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 2014C or STA 2023 to fulfill the first part of the statistics requirement.

COMPUTER ENGINEERING ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM
(B.S.Cp.E./M.S.Cp.E.)

College of Engineering and Computer Science
School of Electrical Engineering & Computer Science

Admission Guidelines
   - See Common Program Prerequisites
   - Qualified students may apply after completion of a minimum of 64 credit hours
   - Completion of no more than 96 credit hours
   - Completion of the GRE with a highly competitive score by the end of first semester of the senior year
### Accelerated Undergraduate-Graduate Programs

**1. UCF General Education Program**  
(See Computer Engineering major in this catalog for track specific GEP requirements)

**2. Common Program Prerequisites (CPP’s)**  
(See Computer Engineering major in this catalog for the CPP requirements)

**3. Courses Required for the Computer Engineering Core (14 hrs)**  
(See Computer Engineering major in this catalog for a listing of Electrical Engineering core requirements)

The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements.

**4. Courses Required for the Major**  
(45 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>EEL 3004</td>
<td>Electrical Networks</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3123C</td>
<td>Networks and Systems</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3306</td>
<td>Semiconductor Devices I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3307C</td>
<td>Electronics I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 3342C</td>
<td>Intro to Digital Circuits &amp; Systems</td>
<td>3 hrs</td>
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<tr>
<td>EEL 3657</td>
<td>Linear Control Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 3801</td>
<td>Intro to Computer Engineering</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 4767C</td>
<td>Computer System Design I</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 4768C</td>
<td>Computer System Design II</td>
<td>4 hrs</td>
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<tr>
<td>EEL 4781</td>
<td>Computer Comm Networks</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 4851C</td>
<td>Engineering Data Structures</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EEL 4882</td>
<td>Engineering System Software</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EEL 4084C</td>
<td>Engineering Software Design</td>
<td>4 hrs</td>
</tr>
</tbody>
</table>

**5. Approved Technical Electives**  
(6 hrs)

Technical electives should be taken at the 5000 or 6000 level and are available in the BSCpE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

**6. Departmental Graduation Requirements**  
(6 hrs)

- EEL 4914 Senior Design I  
- EEL 4915L Senior Design II

CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

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

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

**Graduation:** none

**8. University Minimum Graduation Requirements**

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

**Total Semester Hours Required (B.S.Cp.E.)**  
128 hrs

6 hrs

Up to 6 credit hours of approved 5000 and 6000 level courses of grades B (3.0) or better may be counted towards the BS and Masters degrees. These 6 credit hours will meet either technical elective or course requirements for the major. Contact the Graduate Coordinator in the Electrical and Computer Engineering department for a list of acceptable courses.

**10. Areas of Study M.S.Cp.E.**  
24 hrs

Students must complete all requirements within the masters program that they are admitted to. See the list below for possible options. Detailed information regarding course and graduation requirements can be located in the graduate catalog. Students have an end of year option of (1) Thesis or (2) non thesis (see graduate catalog for a detailed description of these options).

- **Computer Architecture Track**
- **Digital Systems Track**
- **Intelligent Systems Track**
- **Software Engineering Track**

**Total Semester hours (B.S.Cp.E./M.S.Cp.E.)**  
152 hrs

The baccalaureate degree will be awarded when program requirements for the BS are met and students have completed a minimum of 128 hours of credit. Students will then be reclassified as graduate students. The M.S.Cp.E. 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 graduate courses must be within nine hours of graduation.
- Undergraduate students taking graduate courses must not register for more than a total of twelve hours in that semester.
- Undergraduate students are not eligible to take 6000-level courses.

**COMPUTER SCIENCE ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM**

**(B.S./M.S.)**

**College of Engineering and Computer Science**

**School of Electrical Engineering & Computer Science**

**Harris Corporation Engineering Ctr., Rm 246, 407-823-2787; Fax: 407-823-5419**

http://www.eecs.ucf.edu

Contact: Dr. Ali Orooji, E-mail: orooji@cs.ucf.edu; Charlese Hilton-Brown, E-mail: chilton@mail.ucf.edu

**Admission Guidelines**

- See Common Program Prerequisites.
- Qualified students may apply after completion of a minimum of 60 credit hours.
- Completion of no more than 90 credit hours.
- Completion of the GRE with a highly competitive score by the end of first semester of the senior year for continuation in the program.
- Admission is not automatic. Interested students may need to be interviewed.

**1. UCF General Education Program**  
(36+3hrs)

(See Computer Science major in this catalog for track specific GEP requirements)

**2. Common Program Prerequisites (CPP’s)**  
(15 hrs)

(See Computer Science major in this catalog for the CPP requirements)

**3. Basic Core Requirements**  
(25 hrs)

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credits</th>
</tr>
</thead>
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<tr>
<td>COP 3330</td>
<td>Intro to OO Programming</td>
<td>3 hrs</td>
</tr>
<tr>
<td>COP 3502C</td>
<td>Computer Science I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>COP 3503C</td>
<td>Computer Science II</td>
<td>4 hrs</td>
</tr>
<tr>
<td>STA 2023</td>
<td>Statistical Methods I</td>
<td>GEP</td>
</tr>
<tr>
<td>ENC 3241</td>
<td>Technical Report Writing</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CDA 3103</td>
<td>Computer Organization</td>
<td></td>
</tr>
<tr>
<td>COT 3100C</td>
<td>Intro to Discrete Structures</td>
<td>3 hrs</td>
</tr>
<tr>
<td>PHI 3626</td>
<td>Ethics in Science and Technology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>COP 3402</td>
<td>Systems Software</td>
<td>3 hrs</td>
</tr>
<tr>
<td>COT 3960</td>
<td>Foundation Exam (PR-COT 3100C &amp; COP 3502C)</td>
<td>0 hrs</td>
</tr>
</tbody>
</table>

**4. Advanced Core**  
(17 hrs)

Students must maintain at least a 2.5 GPA in the following courses. Only the highest grade is used in the calculation.
### Accelerated Undergraduate-Graduate Programs

**COP 4331** Processes for OS Software Development 4 hrs

**CDA 4150C** Comp Architecture 4 hrs

**COT 4210** Discrete Comp Structures 3 hrs

**COP 4020** Programming Languages I 3 hrs

**COP 4600** Operating Systems 3 hrs

#### 5. Restricted Electives

(21 hrs)

- 4000-5000 level Computer Science courses that must include **COT 4810** (Topics in Computer Science), **CDA 5106** (Comp Architecture), **COT 5405** (Analysis of Alg) and an additional 4000 level and 5000 level restricted elective. Must be offered by Computer Science at UCF. At most 3 hours of independent study allowed. No internship or cooperative education credits are allowed. Approved IT courses offered by Computer Science may also be used toward this requirement (3 credits).
- 4000-5000 level mathematics or statistics courses from: **STA, MAP, MAA, MAD, MAS prefixes and MAC 2313, MAP 2302, MAS 3105, and MAS 3106**. No independent study, internship, or cooperative education courses are allowed.

#### 6. School Exit Requirements

- Complete an exit survey
- Computer Competency met by completion of major

#### 7. 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.

#### 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 (B.S.)**

120 hrs

#### 9. Shared B.S./M.S.

12 hrs

Up to 12 credit hours of approved 5000 or 6000 level courses of grades B (3.0) or better may be counted towards the BS and Masters degrees. These 12 credit hours will meet either restricted elective or course requirements for the major. Contact the Graduate Coordinator in the Computer Science department for a list of acceptable courses.

#### 10. Areas of Study M.S.

18 hrs

Students must complete all requirements within the masters program that they are admitted to. Detailed information regarding course and graduation requirements can be located in the graduate catalog. Students have an end of program option of (1) Thesis or (2) non-thesis (see graduate catalog for a detailed description of these options).

**Total Semester hours (B.S./M.S.)**

138 hrs

The baccalaureate degree will be awarded when program requirements for the BS are met and students have completed a minimum of 120 hours of credit. Students will then be reclassified as graduate students. The MS will be awarded on completion of the total program of study.

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 graduate courses must be within nine hours of graduation.
- Undergraduate students taking graduate courses must not register for more than a total of twelve hours in that semester.
- Undergraduate students are not eligible to take 6000-level courses.

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**ECONOMICS ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.A./M.S.)**

**College of Business Administration**

**Department of Economics, BA2 305, 407-823-3266**

**http://www.bus.ucf.edu/economics**

Major Advisor: R. Pennington, BA2 303B, 407-823-2640, E-mail: robertp@mail.ucf.edu

This program is designed for highly qualified majors in Economics who would like to earn undergraduate and graduate degrees in five rather than six years of full-time course work. The program provides students with specialized training in economics within a broad liberal arts education. A minor from several other colleges can be selected according to the student’s personal interests and career goals.

**Admission Guidelines**

- Completion of the UCF General Education program or an AA degree from a Florida Public Community College
- See Common Program Prerequisites
- For admission to graduate courses, students must achieve a minimum 3.25 GPA after completion of 80 credit hours and meet the UCF graduate admission requirements as described in the Graduate Catalog.

**Degree Requirements**

1. **UCF General Education Program** (36 hrs)

   **A. Communication Foundations**
   
   Required: SPC 1600

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

   **C. Mathematical Foundations**
   
   Select one: STA 2023 or 2323 or 2333

   Select STA 2023 Statistical Methods I

   **D. Social Foundations**
   
   Select one: PSY 2012, SYG 2000, ANT 2000

   **E. Science Foundation**
   
   3 hrs

2. **Common Program Prerequisites**

   **ECO 2023** Principles of Microeconomics
   
   **ECO 2013** Principles of Macroeconomics
   
   **ECO 2032** Principles of Microeconomics

   *See Transfer Notes for possible substitutions

3. **Required Undergraduate Major Courses** (16 hrs)

   - ECO 3101 Intermediate Microeconomics
   - ECO 3203 Intermediate Macroeconomics
   - ECO 3411 Quantitative Business Tools I
   - ECO 4451 Research Methods in Economics

   **At UCF, students who have completed MAC 2233 (or any Calculus 1 & 2 sequence) and STA 2303 will be waived from ECO 3401.** Students who have not completed both classes with a “C” (2.0) or better must take ECO 3401.

   **Students in the BAMS program are encouraged to select MAC 2311, 2312 and 2313 along with STA 4321 and 4322 as substitutes for ECO 3401 and ECO 3411.**

4. **Restricted Elective**

   Select any other 3000-4000 level economics course.

   3 hrs

5. **Courses shared BA/MS**

   (15 hrs)

   ECO 6403 Mathematical Economics
   
   ECO 6118 Microeconomic Theory I
   
   ECO 6206 Macroeconomic Theory I
   
   ECO 6424 Econometrics I
   
   ECO 660X Economics Elective

   *15 hours counts towards both BA and MS

6. **Required Minor**

   (18 hrs)

   Completion of a minor in one of the following: Computer Science, Environmental Studies, History, Mathematics, Statistics, Political Science, Psychology, Sociology or Public Administration. Other minors may be selected with prior approval of the Economics Undergraduate Advisor.

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: Not accepted.

Graduation: Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literature or Judaic Studies. Standardized examinations for foreign languages may be used to meet the requirement.

9. Electives (variable)

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 residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credit 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.) 120 hrs

11. Courses taken toward MS (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 mathematics, statistics, public administration, health sciences, political science, legal studies, computer science, and environmental engineering.

12. End of Program Option: (6 hrs)
All candidates for the M.S. in Economics degree must complete an end-of-program option. This requirement can be met by any of the following two options: 1) Thesis option or 2) Course work option (see the Graduate Catalog for a detailed description of the options).

Total Semester Hours (BA/MS) 135 hrs

The baccalaureate degree will be awarded when program requirements for the BA are met and students have completed a minimum of 120 hours of credit. Students will then be reclassified as graduate students. The MS will be awarded on completion of the total program of study.

The following will be waived for this joint degree program:
- The limit of nine hours to be shared between undergraduate and graduate programs
- Undergraduate students taking 6000 level courses must be within nine hours of graduation.
- Undergraduate students taking 6000 level courses must not register for more than a total of twelve hours in that semester

Transfer Notes:
- Grades below “C” (2.0) are not accepted.
- Courses taken at community college do not substitute for Upper Division courses.
- Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
- ECO 2013 and 2023 are prerequisites for all subsequent economics courses.

ELECTRICAL ENGINEERING ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.S.E.E./M.S.E.E.)

Admission Guidelines
- See Common Program Prerequisites

Qualified students may apply after completion of a minimum of 64 credit hours
- Completion of no more than 96 credit hours
- Completion of the GRE with a highly competitive score by the end of first semester of the senior year
- Admission is not automatic. Interested students may need to be interviewed.

1. UCF General Education Program (36+2 hrs)
(See Electrical Engineering major in this catalog for track specific GEP requirements)

2. Common Program Prerequisites (CPP’s) (19 hrs)
(See Electrical Engineering major in this catalog for the CPP requirements)

3. Courses Required for the Electrical Engineering Core (14 hrs)
(See Electrical Engineering major in this catalog for a listing of Electrical Engineering core requirements)
The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2,250 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. below. Independent study courses generally do not satisfy major requirements.

4. Courses Required for the Major (41 hrs)
EEL 3004 Electrical Networks 3 hrs
EEL 3123C Networks and Systems 4 hrs
EEL 3306 Semiconductor Devices I 3 hrs
EEL 3307C Electronics I 4 hrs
EEL 3342C Intro to Digital Circuits & Systems 3 hrs
EEL 3470 Electromagnetic Fields 3 hrs
EEL 3552C Analog and Digital Communications 4 hrs
EEL 3575 Linear Control Systems 3 hrs
EEL 3801 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

5. Approved Technical Electives (10 hrs)
Technical electives should be taken at the 5000 or 6000 level and 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.

6. Departmental Graduation Requirements (6 hrs)
EEL 4914 Senior Design I 3 hrs
EEL 4915L Senior Design II 3 hrs
CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

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

Total Semester Hours Required (B.S.E.E.) 128 hrs

9. Shared B.S.E.E/M.S.E.E. 10-12 hrs
Up to 12 credit hours of approved 5000 and 6000 level courses of grades B (3.0) or better may be counted towards the BS and Masters degrees. These 12 credit hours will meet either technical
Accelerated Undergraduate-Graduate Programs

elective or course requirements for the major. Contact the Graduate Coordinator in the Electrical and Computer Engineering department for a list of acceptable courses.

10. Areas of Study M.S.E.E. 18-20 hrs
Students must complete all requirements within the masters program that they are admitted to. See the list below for possible options. Detailed information regarding course and graduation requirements can be located in the graduate catalog. Students have an end of program option of (1) Thesis or (2) non thesis (see graduate catalog for a detailed description of these options). Communication Track
Controls/Robotics Track
Digital Signal Processing Track
Electromagnetics Track
Electronics/Power Electronics Track
Electro-Optics Track
Solid State and Microelectronics Track
VLSI Design Track

Total Semester hours (B.S.E.E/M.S.E.E.) 146-148 hrs
The baccalaureate degree will be awarded when program requirements for the BS are met and students have completed a minimum of 128 hours of credit. Students will then be reclassified as graduate students. The MSEE 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 graduate courses must be within nine hours of graduation
- Undergraduate students taking graduate courses must not register for more than a total of twelve hours in that semester
- Undergraduate students are not eligible to take 6000-level courses

HISTORY ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM
(B.A. and M.A.)
College of Arts and Humanities
CNH 551, 407-823-2224
http://pegasus.cc.ucf.edu/~history
Graduate program E-mail: hisgrad@ucf.edu
Undergraduate program E-mail: history@ucf.edu
Chair: TBA
Graduate Program Coordinator: Hong Zhang

Purpose of this degree - This program allows highly qualified undergraduate majors in history to begin taking graduate-level courses which will count towards their master’s degree while completing their baccalaureate degree program. Participation will enable completion of a B.A. and M.A. in five instead of six years for students enrolled in full-time course work.

Admission Requirements
- Students apply for admission to the accelerated program at the end of their junior year or after 12 hours of upper-level history course work
- A 3.5 GPA or better in history courses and a 3.25 overall GPA or better
- Graduate Record Exam (GRE) combined score of 1050 on both the verbal and quantitative sections of the exam and a score of at least 550 on the verbal section
- Completion of a graduate application, including an essay indicating reasons for desiring to complete the accelerated program, and three letters of recommendation from History Department faculty to be submitted to the History department
- Students will be formally admitted to the master’s program following receipt of the BA degree

Undergraduate Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog.
- Students must earn at least a “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

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 (Histriography) 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
- AMH 2010* U. S. History: 1492-1877 GEP
- AMH 2020* U. S. History: 1877-Present GEP
- Select three hours of approved history courses 3 hrs
- WOH 2012, 2022 World Civilization I & II 6 hrs

3. Core Requirements (9 hrs)
- HIS 4150 History & Historians 3 hrs
- Select one sequence
  - EUH 2000, 2001 Western Civilization I & II 6 hrs
  - WOH 2012, 2022 World Civilization I & II

4. Upper Division Restricted Electives (21 hrs)
(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 18 hrs
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
- Complete competency met by completion of the major
6. Foreign Language Requirements

- **Admission:** Met by graduation requirement
- **Graduation:** Proficiency equivalent to one year of college instruction in a foreign language taught by the Department of Modern Languages and Literatures or Judaic Studies. Standardized examinations for foreign language may be used to meet the requirement.
- Majors who are participating in the accelerated program should complete two years of a foreign language, preferably one functional in their area of historical interest. Students may take the department's M.A. foreign language proficiency exam immediately following the completion of their foreign language course work.

7. Electives (variable)

Select primarily from upper level courses, with departmental advisor's approval. May be outside of the department.

8. University Minimum Exit Requirements - BA

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

### Total Semester Hours Required

120 hrs

### Overall History MA Requirements

- **Required Graduate Courses** (12 hrs)
  - HIS 6159 Historiography 3 hrs
  - HIS 6905 Capstone Course 3 hrs
  - HIS 6971 Thesis 6 hrs

### 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)

### Outside Area of Concentration in History (6 hrs)

### Foreign Language Requirement

Students will also be expected to demonstrate reading competency in one foreign language. The foreign language competence must be completed one semester prior to the thesis defense.

### 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, Judaic Studies, Latin American Area Studies, Middle Eastern Studies, Women's Studies

### Transfer Notes:

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

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

- AMH 2010* & 2020*: may use any two introductory courses with an AMH, EUH, LAH, ASH, HIS or WOH prefix. However AMH 2010 and 2020 are prerequisites for all subsequent American History courses and will need to be taken for the major.

### INDUSTRIAL ENGINEERING ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM

**B.S.I.E./M.S.I.E.**

**College of Engineering and Computer Science**

**Industrial Engineering and Management Systems Department**

ENG2 311, 407-823-2204; Fax: 407-823-3413

http://www.iems.ucf.edu

### Admission Guidelines

- See Common Program Prerequisites
- Qualified students may apply after completion of a minimum of 60 credit hours
- Completion of the GRE with a highly competitive score by the end of first semester of the junior year
- Admission is not automatic. Interested students may need to be interviewed.

1. **UCF General Education Program** (36+2 hrs)

   (See Industrial Engineering major in this catalog for track specific GEP requirements)

2. **Common Program Prerequisites (CPP’s)** (19 hrs)

   (See Industrial Engineering major in this catalog for the CPP requirements)

3. **Courses Required for the Industrial Engineering Core** (22 hrs)

   (See Industrial Engineering major in this catalog for a listing of Industrial Engineering core requirements)

   The College of Engineering and Computer Science requires all engineering students to achieve a minimum 2.250 GPA in completing these courses, together with the courses required for the major in 4. below, technical elective courses listed in 5. below and with the senior design courses listed in 6. Independent study courses generally do not satisfy major requirements.

   - EGN 3310 Introduction to Engineering Profession 1 hr
   - EGN 3310 Engineering Concepts & Methods 1 hr
   - EGN 3223 Introduction to C Programming 3 hrs
   - EGN 3311 Engineering Analysis - Statics 3 hrs
   - EGN 3321 Engineering Analysis - Dynamics 3 hrs
   - EGN 3358 Thermo-Fluids-Heat Transfer 3 hrs
   - or EGN 3343 Thermodynamics
   - EGN 3365 Structure & Properties of Materials 3 hrs
   - EGN 3373 Principles of Electrical Engineering 3 hrs

4. **Courses Required for the Major** (40 hrs)

   The Industrial Engineering and Management Systems department requires all students within the major to achieve a 2.0 GPA or better in each course listed in sections 4., 5., and 6.

   - EGN 3613 Engineering Economic Analysis 2 hrs
   - EGN 5108 Environment of Technical Organizations 3 hrs
   - STA 3032 Probability & Statistics for Engineers GEP
   - EIN 3000 Introduction to IE & MS 2 hrs
   - EIN 3314 Work Measurement & Design 3 hrs
   - EIN 3354 Principles of Cost Engineering 3 hrs
   - ESI 4221 Empirical Methods for IE 3 hrs
   - EIN 4234 Quality Engineering 3 hrs
   - EIN 4243 Human Engineering 3 hrs
   - EIN 4333C Industrial Control Systems 3 hrs
   - EIN 4346C Industrial Planning & Design 3 hrs
   - EIN 4391C Manufacturing Engineering 3 hrs
   - ESI 4628C IE Applications of Computers 3 hrs
   - EIN 4423C Human Engineering 3 hrs
   - EIN 4510C IE Senior Design Project 3 hrs
   - ESI 5531 Discrete Simulation 3 hrs

5. **Approved Technical Electives** (3 hrs)

   Technical electives should be taken at the 5000 or 6000 level and are available in the BSIE program to address specific student interests in a variety of technical areas. Students should consult with their assigned academic advisor for a list of the approved technical electives and the terms when specific courses of this type are to be offered.

6. **Departmental Graduation Requirements** (6 hrs)

   - EIN 4516C Systems Analysis & Design 3 hrs
   - EIN 4891C IE Senior Design Project 3 hrs

CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.
Accelerated Undergraduate-Graduate Programs

7. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

8. University Minimum Graduation Requirements
- A 2.0 UCF GPA.
- 60 semester hours earned after any CLEP award.
- 48 semester hours of upper division credit completed.
- 30 of the last 36 hours of course work must be completed in residence at UCF.
- 25% of course work must be completed in residency at UCF.
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted.

- Complete the General Education Program, the Gordon Rule, the CLAST, and nine semester hours of Summer credit.

Total Semester Hours Required (B.S.I.E.) 128 hrs

9. Shared B.S.I.E /M.S.I.E. 12 hrs
Up to 12 credit hours of approved 5000 and 6000 level courses of grades B (3.0) or better may be counted towards the BS and Masters degrees. These 12 credit hours will meet either technical elective or course requirements for the major. Contact the Graduate Coordinator in the Industrial Engineering and Management Systems department for a list of acceptable courses.

10. Areas of Study M.S.I.E. 18 hrs
Students must complete all requirements within the masters program that they are admitted to. See the list below for possible options. Detailed information regarding course and graduation requirements can be located in the graduate catalog. Students have an end of program option of (1) Thesis or (2) non thesis (see graduate catalog for a detailed description of these options).

Total Semester hours (B.S.I.E./M.S.I.E.) 146 hrs
The baccalaureate degree will be awarded when program requirements for the BS are met and students have completed a minimum of 128 hours of credit. Students will then be reclassified as graduate students. The MSIE 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 graduate courses must be within nine hours of graduation.
- Undergraduate students taking graduate courses must not register for more than a total of twelve hours in that semester.
- Undergraduate students are not eligible to take 6000-level courses.

MECHANICAL ENGINEERING ACCELERATED UNDERGRADUATE-GRADUATE PROGRAM (B.S.M.E. /M.S.M.E., M.S.M.S.E., or M.S.A.E.)
College of Engineering and Computer Science
Mechanical, Materials, and Aerospace Engineering Department
ENGR 307, 407-823-2416; Fax: 407-823-0208
http://www.mmae.ucf.edu

Admission Guidelines
- See Common Program Prerequisites
- Qualified students may apply after completion of a minimum of 64 credit hours.
- Completion of no more than 96 credit hours.
- Completion of the GRE with a highly competitive score by the end of first semester of the senior year.
- Admission is not automatic. Interested students may need to be interviewed.

1. UCF General Education Program (36+2 hrs)
(See Mechanical Engineering major in this catalog for track specific GEP requirements)

2. Common Program Prerequisites (CPP’s) (19 hrs)
(See Mechanical Engineering major in this catalog for the CPP requirements)

3. Courses Required for the Major (65 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 3 hrs
- EGN 3433 Thermodynamics 3 hrs
- EGN 3365 Structure & Properties of Materials 3 hrs
- EGN 3373 Principles of Electrical Engineering 3 hrs
- STA 3032 Probability & Statistics for Engineers GEP
- EML 3034 Modeling Methods in MMEA 3 hrs
- EML 303C Mechanical Engrng Measurements 3 hrs
- EML 4312C Feedback Control 3 hrs
- EML 3500 Machine Design & Analysis 3 hrs
- EGM 3601 Solid Mechanics 3 hrs
- EML 3701 Fluid Mechanics I 3 hrs
- EML 4142 Heat Transfer 3 hrs
- EML 4220 Vibration Analysis 3 hrs
- EML 5532C Computer-Aided Design for Manufacture 3 hrs

Select one of the following three options for your senior year to complete your BSME.

a. Energy Systems Option
- EML 3101 Thermodynamics of Mechanical Sys 3 hrs
- EML 4304C Thermo-fluids Measurements 2 hrs
- EML 4703 Fluid Mechanics II 3 hrs
- EML 4145 Topics in Heat Transfer 1 hr
- Restricted Mechanical Systems Elective 3 hrs
- Approved Electives 9 hrs

b. Mechanical Systems Option
- EML 4304C Thermo-fluids Measurements 2 hrs
- EML 3262C Kinematics of Mechanisms 3 hrs
- EGM 3601L Solid Mechanics Lab 1 hr
- Restricted Energy Systems Elective 3 hrs
- Approved Electives 12 hrs

c. Materials Option
- EMA 3012C Experimental Techniques in Mech & Materials 3 hrs
- EMA 4102 Thermodynamics and Kinetics of Materials 3 hrs
- EMA 3124 Design and Selection of Materials 3 hrs
- EMA 4223 Fundamentals of Mech. Behavior of Materials 3 hrs
- Approved Electives 9 hrs

4. Approved Technical Electives
Technical electives should be taken at the 5000 or 6000 level and are available in the BSME program to address specific student interests in a variety of technical areas. Restricted electives are intended to ensure that all students have a significant design experience in both mechanical and thermofluids systems. Students should consult with their Department for a list of the approved restricted and technical electives and the terms when specific courses of this type are to be offered.

5. Departmental Graduation Requirements (6 hrs)
- EML 4501C Engineering Design I 3 hrs
- EML 4502C Engineering Design I or EGN 4412C Interdisciplinary Design I 3 hrs
- EML 4503C Engineering Design I or EGN 4413C Interdisciplinary Design II 3 hrs
- CECS encourages all engineering students to take the Fundamentals Exam during their Senior year.

6. Foreign Language Requirements (0-8 hrs)
Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
Graduation: none

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.

Total Semester Hours Required (B.S.M.E.) 128 hrs
9. Shared B.S.M.E./M.S.M.E., M.S.M.S.E. or M.S.A.E.  12 hrs
   Up to 12 credit hours of approved 5000 and 6000 level courses of grades B (3.0) or better may be counted towards the BS and Masters degrees. These 12 credit hours will meet either technical elective or course requirements for the major. Contact the Graduate Coordinator in the Mechanical, Materials, and Aerospace Engineering department for a list of acceptable courses.

10. Areas of Study M.S.M.E., M.S.M.S.E., or M.S.A.E.  18 hrs
   Students must complete all requirements within the masters program that they are admitted to. See the list below for possible options. Detailed information regarding course and graduation requirements can be located in the graduate catalog. Students have an end of program option of (1) Thesis or (2) non thesis (see graduate catalog for a detailed description of these options).

   Computer–Aided Mechanical Engineering Track
   Mechanical Systems Track
   Miniature Engineering Systems Track
   Professional Track
   Space Systems Design and Engineering Track
   Thermofluid Aerodynamic Systems Design and Engineering Track
   Thermofluids Track

   Total Semester hours  146 hrs
   (B.S.M.E./M.S.M.E., M.S.M.S.E., or M.S.A.E.)
   The baccalaureate degree will be awarded when program requirements for the BS are met and students have completed a minimum of 128 hours of credit. Students will then be reclassified as graduate students. The MSME, MSMSE, or MSAE 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 graduate courses must be within nine hours of graduation.
   ■ Undergraduate students taking graduate courses must not register for more than a total of twelve hours in that semester.
   ■ Undergraduate students are not eligible to take 6000-level courses.

MOLECULAR BIOLOGY AND MICROBIOLOGY -
UCF/USF Accelerated Medical School Program (B.S.)
Burnett College of Biomedical Sciences
HPA2 335, 407-823-5932
http://www.biomed.ucf.edu
Dean: P.E. Kolattukudy

Students desiring admission to USF College of Medicine [USFCOM] through the accelerated program will meet all USFCOM admission requirements and obtain a B.S. in Molecular Biology and Microbiology after completion of the first year of the medical school curriculum.

Admission Requirements
Students must apply for this program through the Burnett Honors College prior to attending UCF. Eligibility requirements include FL residency, unweighted high school GPA of 3.7 and SAT score of 1300 or ACT of 29. More information about the admission process can be found at http://www.honors.ucf.edu and in catalog: Burnett Honors College: UCF/USF Accelerated Medical School Program.

Degree Requirements
■ Students who change degree programs and select this major must adopt the most current catalog
■ Students should consult with a departmental advisor and the Burnett Honors College advisor
■ Students who decelerate will not have grades below C (1.75) in life science courses accepted

1. UCF General Education Program  (36+3 hrs)
   (Note: Certain courses must be selected in the GEP for this major, bringing total GEP hours to more than 36.)
   A. Communication Foundations  9 hrs
      Select ENC 1103H Honors Fr Composition I
      Select ENC 1102H Honors Fr Composition II
      Prefer SPC1016 H Honors Fund. Tech Presentations

   B. Cultural Historical Foundations  9 hrs
   C. Mathematical Foundations  
      Select MAC 2311
      Select STA 2023
   D. Social Foundations  6 hrs
   E. Science Foundations  4 hrs
      Select BSC 2010C Biology I
      Select CHM 2045C Chemistry Fundamentals I

2. Common Program Prerequisites  (16 hrs)
   BSC 2010C  Biology I 
   BSC 2011C* Biology II
   CHM 2045C**, 2046, Chemistry Fundamentals I, II, + Lab 2046L 
   CHM 2210, 2211, Organic Chemistry I, II, + Lab 2211L
   MAC 2311 Calculus with Analytical Geometry I
   MAC 2312 Calculus with Analytical Geometry II

3. Core Requirements*  (36 hrs)
   Life Sciences
   MCB 3020C General Microbiology  5 hrs
   MCB 4912 Undergraduate Research  3 hrs
   MCB 4941 Internship Clinical Experience 1 hr
   PCB 4239 Molecular Immunology  3 hrs
   PCB 3233L Immunology Lab  1 hr
   PCB 3522, 4524 Molecular Biology I, II  6 hrs
   BSC 3403C Quantitative Biological Methods  4 hrs
   SLS 2311C Selected Medical Careers  2 hrs
   Chemistry
   BCH 4053 Biochemistry I  3 hrs
   Math Calculus and Statistics
   MAC 2311 Calculus with Analytical Geometry I  5 hrs
   STA 2023 Statistical Methods I  3 hrs
   Physics
   PHY 2053C, 2054C College Physics I, II  8 hrs
   or
   PHY 2048, PHY 2049 Physics for Scientists and Engineers
   *May be substituted by BSC 3403C
   **Or CHM 2040C, 2041C

4. Upper Division Restricted Electives  (8 hrs)**
   Five restricted electives satisfied by first year medical school courses:
   PCB 3703C Human Physiology  4 hrs
   ZOO 3733C Human Anatomy  4 hrs

5. Additional USF/UCF Requirements  (7 hrs)
   IDH 1021H Honors Symposium  1 hr
   ENC3241/ENC3241H Writing for the Tech Professional  3 hrs
   PHI 4633H or Honors Ethics and Biological Science  3 hrs
   PAF 3753H Honors Ethical Issues in Health & Public Affairs  3 hrs
   *Students must select at least two honors sections of upper division core requirements or restricted electives, and a total of four lower division courses in honors.

   **Students decelerating to the 4 year B.S. program must take the following additional courses:
   MCB 4414 Microbial Metabolism  3 hrs
   4 additional Upper Division Restricted Electives listed under Molecular Biology and P20Microbiology B.S. (minimum)
   106 total hrs
   120 total hrs

5. Departmental Exit Requirements
   To be eligible for a major in Molecular Biology and Microbiology:
   ■ For decelerated program, the student must complete all course work in the baccalaureate curriculum as shown, and, earn a GPA of at least 2.0 for all coursework in the Core and Restricted Electives
   ■ For accelerated program the degree is awarded after successful completion of first year USF Medical School program.

6. Electives:  none

7. Foreign Language Requirements  (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 at UCF and/or USF
Accelerated Undergraduate-Graduate Programs

Total Semester Hours Required 120 hrs

For accelerated program, 14 credit hours will be from completion of USF College of Medicine first year courses.

Related Programs: Biology, Interdisciplinary Studies

Related Minors: Biology, Chemistry

Tentative Course Schedule for Entering Freshmen

Freshman Year

Fall  15 hrs  Spring  16 hrs
ENC 1101H 3  ENC 1102H 3
PSY 2012H or SYG 2000 3  STA 2023 3
or ANT 2000H  3  CHM 2046 3
CHM 2045H 1  CHM 2046L 1
BSC 2010C 4  MAC 2311 4
DH 1921 1  SLS 2311C 2
Summer  8 hrs
PCB 3703C 4
ZOO 3733C 4

Sophomore Year

Fall  16 hrs  Spring  16 hrs
CHM 2210 3  CHM 2211 3
MCB3020C 5  MCB 2211L 2
PHI 4633H 3  PHY 2054C or PHY 2049,2049L 4
PHY 2053C or PHY 2048,248L 4  BSC 3403C 4
MCB 4941 1  SPC 1016H 3
Summer  0 hrs
MCAT
Prep Exam

Junior Year

Fall  16 hrs  Spring  16 hrs
PCB 3522 3  PCB 4524 3
BCH 4053 3  PCB 4239, 3233L 4
ENC 3241HENC 3241H 3  Cultural/Historical 3
BSC 2011C 4  ECO 2013 or POS 2041 3
Cultural/Historical 3  Cultural/Historical 3
Summer  3 hrs
MCB 4912 3

NURSING ACCELERATED SECOND DEGREE
C. BACHELOR OF SCIENCE IN NURSING
(BSN) OPTION

(For individuals who are not Registered Nurses but who hold a baccalaureate or higher degree from a regionally accredited college or university)

College of Nursing, HPA 220, 407-823-2744
E-mail: ucfnurse@mail.ucf.edu
Dean: Jean Leuner; Associate Dean Undergraduate: Linda Hennig;
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 College of Nursing prior to January 15 of the year admission is sought.
- Application to the University must also be submitted by the program deadline.
- Students who have never attended the University of Central Florida as degree seeking undergraduate students must apply to the Undergraduate Admissions Office. Students should complete the regular undergraduate admission application.
- Students who have attended the University of Central Florida as degree seeking undergraduate students should apply through the Registrar’s Office. These students complete the "Readmission Application" form.
- Students must receive a baccalaureate or higher degree from a regionally accredited college or university prior to the start of the program.
- Three biological science prerequisite courses must be completed by the program application deadline. Five of the nine program prerequisites must be completed by the program application deadline.
- All applicants must have a minimum overall GPA of 2.80, and complete all program prerequisite courses with a grade of “C” (2.0) or better.
- All applicants must complete an accelerated second degree program interview in association with a mandatory information session.
- Graduates are eligible to apply to take the licensing examination for registered nurses (NCLEX-RN). The program is accredited by the National League for Nursing and the Commission of Collegiate Nursing Education and approved by the Florida State Board of Nursing.

Nursing Accelerated Second Degree Program begins in Summer Semester.

Degree Requirements

- Students who change degree programs and select this major must adopt the most current catalog.
- Students should consult with a College of Nursing advisor for clarification of questions regarding prerequisite requirements.
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the nursing major are required for continuation and graduation from the Nursing Program.
- UCF Residency requirement: 30 hours (if applicable).
- Any variation from the stated prerequisite must be approved in writing by the School of Nursing. Petition forms are available in the College of Nursing office.

1. UCF General Education Program

2. Common Program Prerequisites

3. Core Requirements

4. Upper Division Restricted Electives
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
- College of Nursing GPA of 2.5 or above

6. Electives
none

7. Foreign Language requirements
Admission: none
Graduation: none

8. University Minimum Exit Requirements
- A 2.0 UCF GPA
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residency at UCF

Total Semester Hours Required for 2nd Degree BSN 56 hrs

Related Programs
Health Services Administration, Social Work, all health programs

Related Minors
Aging Studies, Psychology, Health Sciences, Health Services Administration

Transfer Notes:
Examples of Community College Equivalent Courses for

Prerequisites
General Psychology (PSY X012) or any General Psychology course 3
General Sociology (SYG 2000) or any intro to Sociology course 3
Statistics (STA 2014C or 2023) or any Statistics course 3
General Chemistry (CHM 1032 or any other comprehensive chemistry course w/ lab)* (S**) 4
Human Anatomy and Physiology I & II w/ lab (BSC 2093/2094) or (BSC X085/X086) (S**) 6-8
General Microbiology (MCB 3020C) (MCB X010C) w/ lab 4
or any Microbiology course w/ lab (S**) 4
Developmental Psychology (DEP 2004) or any Human Growth & Development Across Life Span course 3
Human Nutrition with Therapeutic Nutrition course 3

*The first semester of a two semester general chemistry course does not meet requirement (ie CHM 1045, 2045, Chemistry I).
**S” indicates a biological science prerequisite.

Note: A grade of “C” (2.0) or better is required in all prerequisite courses.

Honors
University Honors and Honors in the Majors Available

Tentative Course Schedule

First Semester

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<thead>
<tr>
<th>Summer</th>
<th>Fall</th>
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<tbody>
<tr>
<td>15 hrs</td>
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<td>NUR 3625</td>
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Spring 12-14 hrs Summer 13-16 hrs

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<tr>
<td>or NUR 3165</td>
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</tbody>
</table>

Other
- Students without a research course on transcript must take NUR 3165
- **Students may petition to waive elective requirements.

NURSING (B.S.N.)

D. RN TO MSN OPTION

College of Nursing
HPA 220, 407-823-2744, E-mail: ucfnurse@mail.ucf.edu
http://www.cohpa.ucf.edu/nursing/

An Accelerated program for students who hold an RN license and meet general education requirements, pre-requisites, required GPA and GRE score.

Available for all tracks in the graduate program. Nursing Leadership and Management, Family Nurse Practitioner, Adult Nurse Practitioner, Pediatric Nurse Practitioner, Clinical Nurse Leader, Nurse Educator, and Clinical Nurse Specialist. (See UCF Graduate Catalog for current offerings.) Nine (9) to twelve (12) graduate credit hours may be applied toward meeting requirements of both BSN and MSN programs.

Admission Requirements Limited Access
Acceptance to the university does not constitute admission to the RN-MSN program. Separate application to this limited access program must be made. Contact the College 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 a Registered Nurse (RN)
- Completion of UCF general education requirements or an AA degree from a Florida community college, including CLAST (or exempt)
- Completion of prerequisites for the RN-BSN nursing program
- Minimum cumulative GPA of 3.0. (all prior college coursework) A minimum combined GRE score of 900 on the verbal/quantitative exams.
- Admitted to UCF undergraduate program
- Two professional references addressing qualifications and ability to succeed in graduate school
- Resume
- Letter of Intent/Goal statement

Intermediate Goals:
Maintain a Nursing GPA of 3.0

Admission Requirements for Graduate Nursing Phase: (To be met one semester before the BSN is awarded)
- Application to and acceptance by the UCF Office of Graduate Studies (see Graduate Studies website for deadlines)
- Completion of all UCF College 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 College of Nursing advisor for clarification of questions regarding prerequisite requirements
- 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 120 hours including 30 hours of specified program requirements
- The MSN is awarded after program completion
- The courses designated in sections 1 (General Education) and 2 (Common Program Prerequisites) should usually be completed in the first 60 hours

An individualized plan of study is developed for each student admitted to the RN to MSN option.

1. UCF General Education Program (36+1 hrs)
A. Communication Foundations
   1. ENC 1101 & ENC 1102 9 hrs
   2. Prefer SPC 1600C 9 hrs
B. Cultural Historical Foundations
   3. Mathematical Foundations 6 hrs

http://www.cohpa.ucf.edu/nursing/
1. Prefer MAC 1105
2. Select STA 2014C

D. Social Foundations 6 hrs
1. Select SYG 2000 or PSY 2012*
2. Select one: ECO 2013, or ECO 2023, or POS 2041

E. Science Foundations** 7 hrs
Select BSC 2010C (4)
Select CHM 1032 (3)

*One of these courses is required to meet General Education requirements, but both are required program prerequisites.

**Science Foundation is 6 credit hours for General Education Program; however the nursing program prerequisite requires 4 CHM credits. To earn this, the student must also take the CHM 1032 lab. This BSC course is needed as a course prerequisite for Anatomy and Physiology and Health Microbiology.

2. Common Program Prerequisites 21 hrs
PSY 2012 General Psychology** GEP
SYG 2000 Sociology** 3 hrs
MCB 2004C Health Microbiology 4 hrs
CHM 1032 General Chemistry ** GEP
CHM 1032L General Chemistry Lab GEP
ZOO 3733C Human Anatomy* 4 hrs
PCB 3703C Human Physiology 4 hrs
STA 2014C Principles of Statistics** GEP
SOW 2104 Assessing Human Development 3 hrs
or DEP 2004 Developmental Psychology
HUN 3011 Human Nutrition 3 hrs

*May take Anatomy and Physiology sequence of six-eight total credits.
**Also meets General Education Requirements; Applicants should see a UCF Nursing Advisor for possible course substitutions.

3. Core Requirements (30 hrs)

UCF Upper Division Requirements
NUR 3805 Dimensions of Professional Nursing Practice 3 hrs
NUR 3165 Nursing Research 3 hrs
NUR 3634 Community Health Nursing 3 hrs
NUR 4837 Health Care Issues, Policy, & Econ 3 hrs
NUR 4XXX Public Health Nursing 2 hrs
NUR 4XXXL Practicum in Community and Public Health 4 hrs

Students in the Nurse Educator/Clinical Nurse Leader, and Nurse Practitioner tracks take the following (12 credits)
(nine graduate credits also applied to MSN)
NUR 5003 2 cr.
NUR 5004L 1 cr.
NUR 5638 3 cr.
NUR 5141 3 cr.
NUR 4XXX Leadership, Management and Role Development 3 cr.

Students in the Clinical Nurse Specialist Track take the following (12 credits)
(twelve graduate credits also applied to MSN)
NUR 5003 2 cr.
NUR 5004L 1 cr.
NUR 5720 3 cr.
NUR 5141 3 cr.
NUR 5800 3 cr.

Students in the Nursing Leadership & Management Track take the following (12 credits)
(nine graduate credits also applied to MSN)
NUR 5720 3 cr.
NUR 5781 3 cr.
NUR 5900 3 cr.
NUR 3065 2 cr.
NUR 3065L 1 cr.

Upper Division Credit * (26 hrs)
NUR 3026 Essentials of Nursing Practice Lab 2 cr.
NUR 3026L Essentials of Nursing Practice Lab 1 cr.
NUR 3755L Essentials of Nursing Practice Clinical 3 cr.
NUR 3225 Nursing Care of the Adult I 3 cr.
NUR 3325 L Nursing Care of the Adult I Clinical 2 cr.
NUR 3445 Nursing Care of Families 3 cr.
NUR 3445L Nursing Care of Families Clinical 2 cr.
NUR XXX Nursing Care of the Adult II 3 cr.
NUR XXXXL Nursing Care of the Adult II Clinical 3 cr.
NUR XXXX Psychiatric Mental Health Nursing 3 cr.
NUR XXXX L Psychiatric Mental Health Nursing Clinical 2 cr.

*May be met by validation

4. Upper Division Restricted Elective none

5. Departmental Exit Requirements
Completion of all courses in major with a grade of “B” (3.0) or better
Cumulative GPA of 2.5 or above
College of Nursing GPA of 2.5 or above

6. Electives
Variable to meet degree requirements.

7. Foreign Language Requirements (0-8 hrs)
Admissions: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam).
Graduation: none

8. University Minimum Exit Requirements
(For students exiting after earning BSN.)
A 2.0 UCF GPA and 2.5 Nursing Major GPA
60 semester hours earned after CLEP awarded
48 semester hours of upper division credit completed
30 of the last 36 hours of course work must be completed in residency at UCF
A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)

Total Semester Hours Required BSN 120 hrs

Related Programs: Health Services Administration, all health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology
STATEWIDE ARTICULATED A.S. TO B.S. PROGRAMS

The University offers nine specialized degree programs for students who have graduated from a Florida Community College with an A.S. degree in one of the following eight programs: Applied Science, Criminal Justice Technology, Electronics Engineering Technology, Business Administration, Hospitality Management, Computer Engineering Technology - Network Specialization, Nursing, and Radiography. Students who wish to transfer to UCF under the provisions of the statewide articulated A.S. to B.S. programs must meet specific criteria:

1. Students must graduate with the specific program and new A.S. in Fall 2000 or later, (Fall 2003 or later for Criminal Justice or Computer Engineering Technology) from a Florida public community college.
2. Students who have graduated with an A.S. prior to Fall 2000 are not eligible to participate in these programs. The new community college A.S. programs have slightly different requirements. Students who do not have the new A.S. should complete their general education at the community college and then transfer into the appropriate non-A.S. to B.S. program at UCF.
3. Students may only transfer from the specific major to the specific major; e.g., Business Administration to General Business. One cannot, for example, transfer an A.S. in Business Administration to a B.S. in Accounting under this agreement.
4. Students should write on the front of their application for admission to UCF, “A.S. - B.A./B.S.” designating their desire to participate in the articulation agreement.
5. UCF will allow students to complete the UCF required General Education courses at their community college while they are enrolled and working on their degree at UCF. However, students cannot be transient in their last 30 hours at UCF.
6. Students with Associate in Applied Science (AAS) degrees are not eligible for participation in these programs unless they also have the appropriate A.S. degree.

Applicants who qualify for this program are not guaranteed admission to the limited access programs in Nursing and Radiologic Sciences or programs that require specific grades in particular courses for admission.

Students should consult with their community college advisor when pursuing one of these programs to make sure they have met all of the appropriate requirements for the degree, including the necessary General Education courses and common program prerequisites. Students are still required to complete all of the components of the Gordon Rule and CLAST prior to graduation from UCF. Students may be required to complete all common program prerequisites for these majors prior to enrollment in upper division coursework. The total hours required for the General Education Program (GEP) will be 36 hours, excluding any necessary remediation.

Students admitted into these programs must meet the requirements as stated in the programs listed below. Students who change majors out of these programs must adopt the requirements of the most current catalog for the selected major, including the required UCF General Education Program.

Questions concerning the requirements of these majors should be referred to the appropriate academic department or the Director of Transfer Services, (407) 823-2231.

APPLIED SCIENCE (B.A.S.)

A.S. to B.A.S.

Completion Program for individuals who have a statewide articulated A.S. from a Florida public community college.

Office of Undergraduate Studies
Regional Campuses Administrative Offices
12201 Research Parkway, Suite 101
407-823-4547
http://www.regionalcampuses.ucf.edu/

Program Coordinator: Judy Boyle, 407-317-7816

The Bachelor of Applied Science, available at selected sites, provides baccalaureate educational opportunities with a curriculum designed to develop competencies in organizational skills, management, and communication. Emphasis will also be placed on the development of skills in critical thinking, problem solving, and ethical decision-making.

Students are allowed to take lower level, general education classes at the campus in Orlando if necessary. If students wish to take an upper division course at the Orlando campus they should see a Regional Campuses’ academic advisor. This will be allowed only on a very limited basis and under highly extenuating circumstances. If you have any questions regarding this policy or procedure, please contact the Director of Regional Campuses Advising at 407-823-4547.

Admission Requirements

Completion of an A.S. degree from a Florida public community college which included at least 15 hours of transferable general education courses. Other applicants will be given individual review.

Degree Requirements

Students who change degree programs and select this major must adopt the most current catalog. Students should maintain contact with an academic advisor.

1. UCF General Education Program (36 hrs)

   Students will take General Education courses as needed to complete the university’s 36 credit hour General Education requirement:

   A. Communication Foundations
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
   D. Social Foundations

   PLA 3104 Law and the Legal System
   PLA 3104 Legal Research
   PLA 3104 Legal Writing (3 hrs)
   PLA 3104 Civil Practice and Procedure (3 hrs)
   PLA 3273 Law of Torts (3 hrs)
   PLA 3398 Criminal Procedure (3 hrs)
   PLA 4423 The Law of Contracts (3 hrs)

   D. Legal Studies Track (18 hrs)

   PLA 3104 Law and the Legal System
   PLA 3104 Legal Research
   PLA 3104 Legal Writing (3 hrs)
   PLA 3104 Civil Practice and Procedure (3 hrs)
   PLA 3273 Law of Torts (3 hrs)
   PLA 3398 Criminal Procedure (3 hrs)
   PLA 4423 The Law of Contracts (3 hrs)

2. Common Program Prerequisites

3. Required Core

4. Area of Concentration (Choose one)

   All tracks are not available at all locations.

   A. Supervision and Administration Track: (20 hrs)

   B. Industrial Operations Track: (21 hrs)

   C. Criminal Justice Track: (18 hrs)

   D. Legal Studies Track: (18 hrs)
Statewide Articulated A.S. To B.S. Programs

PLA 4700 Professional Ethics and Liability (3 hrs)

E. Hospitality Management Track: (18 hrs)
HFT 1000 Introduction to Hospitality Management 3 hrs
HFT 3540 Guest Services Management I 3 hrs
HFT 3263 Restaurant Management 3 hrs
HFT 3700 Tourism Management 3 hrs
6 semester hours of HFT courses selected with the aid of an academic advisor

F. Health Services Administration Track: (18 hrs)
HSA 3111 U.S. Health Care Systems 3 hrs
(HSA 3111 is a prerequisite class for all of the following classes)
HSA 4201 Community Health Services 3 hrs
HSA 4180 Organization and Management for Health Agencies 3 hrs
HSA 4191 Health Care Automation PR: CGS 2100 3 hrs
HSC 4500 Epidemiology PR: STA 2014C or STA 2023 3 hrs
Choose One:
HSC 3840 Health Law or
HSC 4653 Health Care Ethics or
HSA 4109 Managed Care or
HSA 4502 Risk Management or
HIM 4506C Quality Management or
HSA 4702 Health Science Research Methods

G. Information Technology Track: (21 hrs)
Strongly urged that students take STA 2023 within the general education program
CET 3010 Introduction to Information Technology PR: MAC 1105 3 hrs
CET 2364 System Applications in C PR: MAC 1105 3 hrs
CET 3752 Introduction to Telephony 3 hrs
CET 3383 System Analysis I 3 hrs
CET 4427 Applied Database I 3 hrs
CET 4505 Applied Operating Systems I 3 hrs
ETI 4448 Applied Project Management 3 hrs

H. Early Childhood Education Track: (21 hrs)
EEC 3700 Social and Emotional Development PR: EEC 3700 3 hrs
of Young Children
RED 3310 Early Reading, Writing and Language Arts 3 hrs
EEC 4268 Curriculum Activities in Early Childhood 3 hrs
EEC 4604 Classroom Management and Guidance of Young Children PR: EEC 3700 3 hrs
EXE 4751 Parent Involvement 3 hrs
TSL 4100 Theory and Practice of Teaching ESOL 3 hrs
Students in Schools
EXE 4350 Young Children with Special Needs 3 hrs

5. Modern Language Requirement (0-8 hrs)
Admission Requirements
Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.

Graduation: none

University Minimum Exit Requirements
- A 2.0 UCF GPA
- 60 semester hours earned after CLEP awarded
- 42 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in 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 hrs

Transfer Notes.
- UCF will allow students to complete required UCF General Education courses at the community college while they are enrolled and working on their degree at UCF; however, students cannot be transient in their last 30 hours at UCF.
- Courses taken at community colleges do not substitute for upper division courses.
- All students seeking a baccalaureate degree from a State of Florida Institution are required to satisfy the CLAST requirement.

Transfer students with more than 60 semester hours who have not taken the CLAST or who have not met the CLAST requirement may be admitted, but they must take the CLAST exam during their first semester at UCF.
- Orientation and advising are two of the most valuable tools that a student can use when transferring to UCF. Students should take advantage of both

CRIMINAL JUSTICE (B.S.)
A.S. to B.S. TRACK
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Health and Public Affairs
HPA1 311, 407-823-2603
http://www.coehpa.ucf.edu/crim.jus/
E-mail: cjadvise@mail.ucf.edu

Admission Requirements
Completion of a Statewide Articulated A.S. in Criminal Justice from a Florida public community college which is composed of 64 hours of course work, including at least 18 hours of transferable general education courses

Degree Requirements
- Students who change degree programs and select this major must adopt the most current catalog
- The courses designated in section 1 below may be taken at a Florida Community College
- Students must earn a minimum 2.0 GPA in the core requirements and the restricted electives.

1. UCF General Education Program (36 hrs)
Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:
- Communication Foundations
- Cultural Historical Foundations
- Mathematical Foundations
- Social Foundations
- Science Foundations

2. Common Program Prerequisites
Completed as part of the approved A.S. program

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

4. Upper Division Restricted Electives (30 hrs)
27 additional semester hours of upper division CCJ course work. Seniors can satisfy up to six hours of this requirement with internship and up to six hours with directed independent study; however, the combination of these non-class options shall not exceed nine hours. Program standards must be met to be eligible for either internship or independent study credit.
- 3 additional semester hours of supporting courses to be selected with and approved by the student's advisor. These courses may vary from student to student depending upon individual needs or objectives, but include selected courses from public administration, legal studies, sociology, statistics, and psychology.

5. Upper Division Unrestricted Electives none

6. Departmental Exit Requirements
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
1. UCF General Education Program (14 hrs)
   A grade of "C" (2.0) or better is required in all prerequisites and transferable General Education courses.

2. Common Program Prerequisites (CPP) (4 hrs)
   (C or better grades are required in all courses)
   MAC 2311 or MAC 2253
   MAC 2312 or MAC 2254 or equivalent
   PHY 2048 and PHY 2048L or PHY 2053C

3. Engineering Technology Core Requirements (22 hrs)
   (C or better grades are required in all courses.)
   ETG 3541 Applied Mechanics 3 hrs
   ETI 3671 Technical Economic Analysis 3 hrs
   ETI 4448 Applied Project Management 3 hrs
   ETI 3116 Engineering Quality Assurance 3 hrs
   ENC 3241 Technical Report Writing 3 hrs
   PHY 2049 and PHY 2048L or PHY 2053C 4 hrs
   STA 2023 Statistical Methods I 3 hrs

4. Upper Level Required Courses (22 hrs)
   (C or better grades are required in all courses)
   CET 3198C Digital Systems 3 hrs
   CET 3503 Microcomputer Technology I 3 hrs
   CET 4134C Microprocessor Electronics II 3 hrs
   EET 3716 Network Analysis 3 hrs
   EET 4158C Linear Integrated Circuits 3 hrs
   EET 4548 Power Systems 3 hrs
   EET 4732C Feedback Control Systems 4 hrs

5. Upper Level Technical Electives (5 hrs)

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 130 hrs

Related Programs: Legal Studies
Related Minors: Legal Studies, Public Administration, Psychology.

ELECTRICAL ENGINEERING TECHNOLOGY (BSEE)
A.S. to B.S.E.E.T. CONCENTRATION
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Engineering and Computer Science
Engineering Technology (ENT) Department
ENGR 207, 407-823-4749; Fax: 407-823-4746
http://www.ent.ucf.edu

Coordinator: Alireza Rahrooh, E-mail: rahrooh@pegasus.cc.ucf.edu

Admission Requirements
Completion of a Statewide Articulated A.S. in Electrical Engineering Technology from a Florida public community college which is composed of 68 hours of course work, including at least 22 hours of transferable General Education courses.

Degree Requirements
Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
A grade of "C" (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program (14 hrs)
   A. Communication Foundations 3 hrs
   B. Cultural and Historical Foundations 3 hrs
   C. Mathematical Foundations 4 hrs
   1. Select MAC 2311 or MAC 2253
   D. Social Foundations (0 hrs)
   E. Science Foundations 4 hrs
   1. Select PHY 2048 and PHY 2048L or PHY 2053C
   Note: See PHY component under Section 2.

2. Common Program Prerequisites (CPP) (4 hrs)
   (C or better grades are required in all courses)
   MAC 2311 or MAC 2253
   MAC 2312 or MAC 2254 or equivalent
   PHY 2048 and PHY 2048L or PHY 2053C

3. Engineering Technology Core Requirements (22 hrs)
   (C or better grades are required in all courses.)
   ETG 3541 Applied Mechanics 3 hrs
   ETI 3671 Technical Economic Analysis 3 hrs
   ETI 4448 Applied Project Management 3 hrs
   ETI 3116 Engineering Quality Assurance 3 hrs
   ENC 3241 Technical Report Writing 3 hrs
   PHY 2049 and PHY 2048L or PHY 2053C 4 hrs
   STA 2023 Statistical Methods I 3 hrs

4. Upper Level Required Courses (22 hrs)
   (C or better grades are required in all courses)
   CET 3198C Digital Systems 3 hrs
   CET 3503 Microcomputer Technology I 3 hrs
   CET 4134C Microprocessor Electronics II 3 hrs
   EET 3716 Network Analysis 3 hrs
   EET 4158C Linear Integrated Circuits 3 hrs
   EET 4548 Power Systems 3 hrs
   EET 4732C Feedback Control Systems 4 hrs

5. Upper Level Technical Electives (5 hrs)

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

7. Foreign Language Requirements (0-8 hrs)
   Admission: Two years of one foreign language in high school, or one year of one foreign language in college (or equivalent proficiency exam) prior to graduation.
   Graduation: none

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

Total Semester Hours Required: 134 hrs

Related Programs: Electrical Engineering Technology (Electrical Systems Concentration).
Related Minors: none
Transfer Notes:
- Students transferring from any Florida public institution with an A.A. or with the General Education Program (GEP) requirements of that institution met have thereby satisfied UCF GEP requirements.
- ENT Departmental Residency Requirements consist of at least 33 semester hours of regularly-scheduled 3000 or 4000 level courses taken from the UCF ENT Department.
- PHY 2048/L can substitute for PHY 2053C.

Junior Year
Fall 13/14 hrs
MAC 2253 Applied Calc I or 3/4
MAC 2311 Calc w/Anal Geom I
ETI 3671 Tech Economic Analysis 3 hrs
ETI 3116 Applied Eng Quality Assur 3 hrs
Spring 16 hrs
PHY 2054C 4 hrs
EET 4359C Digital Communications 4 hrs
EET 4329C Communication Systems 3 hrs

Senior Year
Fall 13 hrs
EET 4548 Power Systems 3 hrs
ETI 4158C Linear Int Cir 3 hrs
CET 3503 Microcomputer Tech 1 3 hrs
CET 4333 Comp Org & Design 3 hrs
MAC 2312, 2254 or MAP 3401 4 hrs
Summer 9 hrs
CET 4333 Comp Org & Design 3 hrs
CET 4138C Digital Program Devices 3 hrs
CET 4134C Microprocessor Elec II 3 hrs

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
BAZ 101, 407-823-2184
http://www.bus.ucf.edu
Faculty Advisor: Undergraduate Student Service, BAZ 101, 407-823-2184

Admission Requirements
Statewide Articulated A.S. To B.S. Programs

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 who complete 12 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and may come from the following areas:
   - A. Communication Foundations - Required SPC 1600
   - B. Cultural and Historical Foundations
   - C. Mathematical Foundations
   - D. Social Foundations
   - E. Science Foundation

2. Common Program Prerequisites (18-21 hrs)
   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
   - GGS 2100C Computer Fundamentals for Business 3 hrs
   *At UCF, students who have completed MAC2323 and STA2023 will be waived from ECO 3401. Students who have not completed both classes with a "C" (2.0) or better must take ECO 3401.

3. Required for All Business Majors (36 hrs)
   First or subsequent semester in the College of Business Administration:
   - GEB 3031 Cornerstone (Required in 1st or 2nd semester) 4 hrs
   - GEB 3356 Introduction to International Business 4 hrs
   - BUS 3130 Legal & Ethical Environments of Business 4 hrs
   - ECO 3411 Quantitative Business Tools II 4 hrs
   - FIN 3403 Business Finance 4 hrs
   - MAN 3025 Management of Organizations 4 hrs
   - ISM 3011 Essentials of Management Information Systems 4 hrs
   - MAR 3023 Marketing 4 hrs
   Last Semester:
   - MAN 4720 Strategic Management 4 hrs

4. Special college and/or department requirements:
   - Students who change degree programs and select another major must adopt the most current catalog.
   - Only grades of "C" (2.0) or higher transfer into the program and students must have a "C" (2.0) or better in each common program prerequisites class.
   - Students wanting to major in General Business must apply for admission to the major.
   - Final exams will be given during Exam Week.
   - Any student receiving a business degree must complete one half (30) of the 60 upper level business courses for their degree program in the UCF College of Business Administration.
   - Students majoring in General Business must earn a grade of "C" (2.0) or better in each course applied toward the major.

5. Second Level Core (6 courses):
   Students must take one course from each of the following areas:
   - Economics (must take ECP 4703), Finance, Management, Management Information Systems (MIS), and Marketing. These five courses are restricted to the courses listed below:
   - Finance
     - FIN 3303 Financial Markets
     - FIN 3414 Intermediate Corporate Finance
     - FIN 3504 Investment Analysis
   - Management
     - MAN 3301 Management of Human Resources
     - MAN 4240 Organizations: Theory and Behavior
     - MAN 4441 Conflict Resolution and Negotiation
     - GEB 3113 How to Start a Business
   - Management Information Systems
     - ISM 3253 MIS Techniques
     - ISM 4153 Enterprise Information Systems
     - ISM 4154 Enterprise Application Development
   - Marketing
     - MAR 3613 Marketing Research & Analysis
     - MAR 3403 Sales Force Management
     - MAR 4841 Service Marketing
     - MAR 4156 International Marketing
   - Economics*
     - ECO 3223 Money and Banking
     - ECP 3203 Contemporary Labor Economics
     - ECP 4703 Managerial Economics

   *ECP 4703 is required. ECP 3203 and ECO 3223 are restrictive electives only.
   With permission of Economic advisor, any other 3000 or 4000 level ECO, ECP, or ECS course may be substituted as an Economics restrictive elective. This substitution must be petitioned and have written approval.

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 hrs

Transfer Notes
   - Courses taken at community colleges do not substitute for upper division courses.
   - Courses transferred must be formally evaluated for equivalency credit. The student must provide a course syllabus and any other supporting information with his/her petition for this evaluation.
   - 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.
   - 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.
HOSPITALITY MANAGEMENT (B.S.)

A.S. to B.S. TRACK
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

Rosen College of Hospitality Management
9907 Universal Boulevard
Orlando, Florida 32819
407-903-8000
http://www.hospitality.ucf.edu
E-mail: hospitality@mail.ucf.edu

Dean: Abraham Pizam

Admission Requirements
Completion of a Statewide Articulated A.S. in Hospitality Management from a Florida public community college which is composed of 64 hours of course work, including at least 18 hours of transferable general education courses.

Degree Requirements
1. UCF General Education Program (GEP) (18 hrs)
Students will complete 18 hours of selected General Education courses. The specific courses will be determined in coordination with General Education courses completed as part of the articulated A.S. and come from the following areas:
   A. Communication Foundations
   B. Cultural and Historical Foundations
   C. Mathematical Foundations
   D. Social Foundations
   E. Science Foundation

2. Common Program Prerequisites (3 hrs)
HFT 1000 Introduction to Hospitality Management 3 hrs

3. Hospitality Management Core (27 hrs)
   CGS 2100CC Computer Fundamentals of Business (GEP)
   or STA 2023 Statistical Methods I
   ECO 2013 Macroeconomics (GEP)
   or ECO 2023 Microeconomics (GEP)
   MAC 1105 College Algebra (GEP)
   HFT 3401 Guest Services Management 3 hrs
   HFT 3411 Hospitality Managerial Accounting 3 hrs
   HFT 4295 Leadership and Strg Mgmt in Hospitality Industry 3 hrs
   HFT 4286 Hospitality Communications 3 hrs
   HFT 4402 Hospitality Industry Finance 3 hrs
   HFT 4491 Internship I 1 hr
   HFT 4944 Internship III 1 hr
   HFT 3933 Distinguished Lectures in Hosp. Mgt. 1 hr

Select 3 of the following 4 courses to complete the core:
HFT 3700 Tourism Management 3 hrs
HFT 3263 Restaurant Management 3 hrs
HFT 3275 Principles of Resort Time Sharing 3 hrs
HFT 4755 Theme Park and Attraction Mgmt 3 hrs

4. Special School Requirements:
   Grades of "C-" (1.75) or below do not transfer into the Hospitality Management core or restricted electives.
   It is the responsibility of the student to take whatever steps are necessary to determine if they have been officially dropped from a course. This does not remove the student’s responsibility for dropping courses they do not intend to complete.
   Final exams will be given during Exam Week only.

5. Restricted Electives (15 hrs)
   Generalist Track: Students must take 15 credit hours (five courses) of Hospitality Management courses in the Hospitality Management Specialized Tracks or the restrictive electives in other degree programs (see Restaurant and Food Service Management B.S. and/or Event Management B.S.) offered by the Rosen College. Please note: No more than 2 courses (6 credit hours) may be taken from any one track or degree program at the Rosen College of Hospitality Management to satisfy the restricted elective requirement.
   OR
   Specialized Tracks: Students must complete one of the six Hospitality Management Specialized Tracks offered by the Rosen College as outlined below to satisfy the restricted elective requirement.

SPECIALIZED TRACKS — Select one of the tracks below

A. Vacation Ownership Resort Management Track – 15 hrs
(5 Courses)
   HFT 4275 Development of Vacation Ownership Resorts 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

B. Theme Park and Attraction Mgmt Track – 15 hrs
(Choose 5 Courses from the following list)
   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 4795 Entertainment Arts and Events 3 hrs
   HFT 5794 Amusement Technology 3 hrs

C. Tourism Management Track – 15 hrs
(Choose 5 Courses from the following list)
   HFT 4735 Tourism Geography 3 hrs
   HFT 4722 Travel Agency Management 3 hrs
   HFT 4762 Current Practices in the Airline Industry 3 hrs
   HFT 4736 Destination Management 3 hrs
   HFT 4561 Destination Marketing 3 hrs
   HFT 3770 Cruise Line Operations and Management 3 hrs

D. Lodging Management Track – 15 hrs
(5 Courses)
   HFT 4313 Hospitality Physical Plant Management 3 hrs
   HFT 4343 Hospitality Facilities Planning & Design 3 hrs
   HFT 4473 Hotel Development Analysis 3 hrs
   HFT 4425 Hotel Operations 3 hrs
   HFT 3515 Reservations Sales & Marketing 3 hrs

E. Hospitality Financial Management and Technology – 15 hrs
(Choose 5 Courses)
   HFT 4442 Vacation Ownership Resort Reservations/Data Base Systems 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

F. Golf and Club Management Track – 15 hrs
(Choose 5 Courses from the following list)
   HFT 1350 Career and Promotional Development in Golf 3 hrs
   HFT 1351 Golf Event Operations 3 hrs
   HFT 1355 Concepts and Practices of Golf Assoc. 3 hrs
   HFT 2359 Design and Maintenance of Golf Equip 3 hrs
   HFT 3353 Golf Planning and Operations I 3 hrs
   HFT 3355 Golf Planning and Operations II 3 hrs
   HFT 3341 Agronomy for Golf Course Mgmt 3 hrs
   HFT 4358 Golf Course Facility Design 3 hrs
   HFT 4277 Yacht, Country and Club Management 3 hrs

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

7. University Minimum Exit Requirements
   A 2.0 UCF GPA
   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)
Statewide Articulated A.S. To B.S. Programs

9. Cooperative Education
0 hrs
500 hours of supervised work experience

Total Semester Hours Required
124 hrs

Community College Transfer Notes

- Subject to the general grade and residence requirements, credit will be granted for transferred course work equivalent to that required in the UCF Rosen College of Hospitality Management.
- ACG X001 and X011 will substitute for HFT 2403 at UCF.
- Florida public community college students are encouraged to complete the General Education requirements prior to transferring to UCF.
- Orientation and advising are two of the most valuable tools that a student can make use of when transferring to UCF. Students should take advantage of both.
- The College may allow substitutions for Hospitality classes taken at the community college. Students should check with the Rosen College of Hospitality Management College for approval of substitutions.

INFORMATION SYSTEMS TECHNOLOGY (B.S.)

A.S. to B.S. TRACK
(Completion program for individuals who have a statewide articulated A.S. from a Florida public community college)

College of Engineering and Computer Science Engineering Technology (ENT) Department
ENGR 207, 407-823-4748; Fax: 407-823-4746
http://www.ent.ucf.edu
Coordinator: Bahman Motlagh, E-mail: bmotlagh@mail.ucf.edu

Admission Requirements
Students will be admitted to the program with an Associate in Science degree in Computer Engineering Technology Network Specialization. Students admitted under this articulated agreement will be required to satisfy the General Education requirements either at UCF or the courses may be taken at a community college. When applying for admission students need to make sure they indicate on the application form AS-BS IST.

Degree Requirements

- Students should check with their ENT advisor frequently to ensure that they are making proper progress toward the degree.
- A grade of “C” (2.0) or better is required in all prerequisites and upper level courses.

1. UCF General Education Program

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Communication Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>B. Cultural and Historical Foundations</td>
<td>9 hrs</td>
</tr>
<tr>
<td>C. Mathematical Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>D. Social Foundations</td>
<td>6 hrs</td>
</tr>
<tr>
<td>E. Science Foundations</td>
<td>6 hrs</td>
</tr>
</tbody>
</table>

2. Lower Level Required Courses Taken at Community College

3. Information Systems Technology Core Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>EET 3651C Computer Applications</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 3010 Intro to Info Technology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 2023 Statistical Methods I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ETI 4484 Applied Proj Mgmt</td>
<td>3 hrs</td>
</tr>
<tr>
<td>ENC 3241 Writing for the Technical Professional</td>
<td>3 hrs</td>
</tr>
<tr>
<td>EET 3085C Electricity &amp; Electronics or</td>
<td>4 hrs</td>
</tr>
<tr>
<td>EET 3086 Principles of Electrical Circuits</td>
<td></td>
</tr>
<tr>
<td>CET 3223C Digital Technology</td>
<td>4 hrs</td>
</tr>
<tr>
<td>CET 2364 Systems Applications in C</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

4. Required Technical Courses

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 4427 Applied Database I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 3383 Applied Systems Analysis I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4505 Applied Operating Systems I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 3752 Intro to Telephony</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4483 Intro to Local Area Network</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4333 Computer Organization &amp; Design</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4748 Wide Area Networks I</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

5. Technical Electives

<table>
<thead>
<tr>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>CET 3398C Digital Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4138C Digital Programmable Devices</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4931 Current Topics in Technology</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4749 Wide Area Network II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4401 Problem Analysis</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4523 Applied Systems Analysis II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4429 Applied Database II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4583 Web Base Systems I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4584 Web Base Systems II</td>
<td>3 hrs</td>
</tr>
<tr>
<td>CET 4663 Computer &amp;Networks Security</td>
<td>3 hrs</td>
</tr>
<tr>
<td>STA 5937 Data Mining I</td>
<td>3 hrs</td>
</tr>
</tbody>
</table>

6. Departmental Exit Requirements

7. Foreign Language Requirements

8. Approved Technical Electives

Related Programs: none

Related Minors: Interdisciplinary Informatics Technology, Security Computing and Networks

Transfer Notes:

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

Tentative Course Schedule for Transferring Students

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

Junior Year

<table>
<thead>
<tr>
<th>Semester</th>
<th>Course</th>
<th>Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fall</td>
<td>EET 3085C Elect &amp; Electronics</td>
<td>14 hrs</td>
</tr>
<tr>
<td></td>
<td>CET 4483 Local Area Network</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Spring</td>
<td>CET 3398C Digital Systems</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>CET 4138C Digital Programmable Devices</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>CET 4931 Current Topics in Technology</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>CET 4749 Wide Area Network II</td>
<td>3 hrs</td>
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<td>3 hrs</td>
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<tr>
<td></td>
<td>CET 4663 Computer &amp;Networks Security</td>
<td>3 hrs</td>
</tr>
<tr>
<td></td>
<td>STA 5937 Data Mining I</td>
<td>3 hrs</td>
</tr>
<tr>
<td>Summer</td>
<td>CET 4333 Comp Org &amp;Design</td>
<td>9 hrs</td>
</tr>
</tbody>
</table>

316 UNIVERSITY OF CENTRAL FLORIDA 2007-2008 Undergraduate Catalog
Statewide Articulated A.S. To B.S. Programs

NURSING (B.S.N.)

E. AS TO BSN TRACK

(Completion program for individuals who have a statewide articulated A.S. Nursing degree from a Florida public community college)

College of Health and Public Affairs
HPA 220, 407-823-2744
http://www.coehpa.ucf.edu/nursing/
E-mail: ucfnurse@mail.ucf.edu

RN-BSN Coordinator

This program is also available online. Students must complete all University-wide graduation requirements (general education, foreign language, CLAST, Gordon Rule, etc.), some of which are not available via distributed learning. For more information, see http://distrib.ucf.edu/home.

Admission Requirements

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 College of Nursing. All applicants must have:

- A minimum overall GPA of 2.5
- Completion of a Statewide Articulated AS in Nursing from a Florida public community college which is composed of 72 hours of course work, including at least 18 hours of transferable General Education courses (graduation 12/00 or later).

Individuals who received AS prior to 12/00 or attended school other than a Florida public Community College should follow section “B” – RN to BSN Program.

- A minimum overall GPA of 2.5
- Completion of all program prerequisites 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
- The courses designated in sections 1 and 2 below may be taken at a Florida community college or other universities and should usually be completed in the first 60 hours
- A minimum overall GPA of 2.5 and a minimum 2.5 GPA in the Nursing Major are required for continuation in and graduation from the Nursing Program
- UCF Residency Requirement: 32 hours

1. UCF General Education Program (36+1 hrs)

Students will complete 18 hours of selected General Education courses as part of the articulated A.S. The specific courses will be determined in coordination with 18 hours of General Education courses completed.

Student must complete remaining General Education courses, prerequisites, and foreign language admission requirements prior to NUR 3634 Community Health Nursing. Students completing the General Education requirements at a Florida community college must complete those courses prior to their last 30 hours at UCF.

General Education Program for articulated AS-BS (36-38 hrs)

A. Communication Foundations
   1. ENC 1101 & ENC 1102
   2. Prefer SPC 1600
   9 hrs

B. Cultural Historical Foundations
   1. Select MAC 1105
   2. Select STA 2014C
   6 hrs

C. Mathematical Foundations
   6 hrs

D. Social Foundations
   6 hrs

2. Common Program Prerequisites

(18 hrs)

PSY 2012 General Psychology**
SYG 2000 Sociology**
MCB 2004C Health Microbiology
CHM 1032 General Chemistry
CHM 1032L General Chemistry Lab
ZOO 3733C Human Anatomy**
PCB 3703C Human Physiology
STA 2014C Principles of Statistics**
or 2023 Statistical Methods I
SOW 3104 Assessing Human Development or
or DEP 2004 Developmental Psychology
HUN 3111 Human Nutrition

3. Core Requirements (50 hrs)

Graduation from an Articulated Associate Degree Nursing Program

NUR 3065 Health Assessment Lab 1 hr
NUR 3065L Health Assessment Lab 1 hr
NUR 3165 Nursing Research 3 hrs
NUR 3634 Community Health Nursing
NUR 40XX Leadership, Management and Role Development 3 hrs
NUR 4837 Health Care Issues, Policy, & Econ 3 hrs
NUR 40XX Public Health Nursing 2 hrs
NUR 40XXX Practicum in Community and Public Health 4 hrs.
NUR 40XXX Leadership, Management and Role Development 3 hrs

4. Upper Division Restricted Elective

(6 hrs)

NUR 3/4XXX Any two upper division Nursing Electives

5. Departmental Exit Requirements

Completion of all courses in major with a grade of “C” (2.0) or better
- Cumulative overall GPA of 2.5 or above
- School of Nursing GPA of 2.5 or above

6. Electives variable to meet degree requirements

7. Foreign Language Requirements

(0-8 hrs)

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

Graduation:

- none

8. University Minimum Exit Requirements

- A 2.0 UCF GPA and a 2.5 Nursing Major GPA
- 60 semester hours earned after CLEP awarded
- 48 semester hours of upper division credit completed
- 30 of the last 36 hours of course work must be completed in residence at UCF
- A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
- Complete the General Education Program, the Gordon Rule, and
Statewide Articulated A.S. To B.S. Programs

Total Semester Hours Required: 128 hrs

Related Programs: Health Services Administration, Social Work, all health programs

Related Minors: Aging Studies Certificate, Health Sciences, Health Services Administration, Psychology

Progression requirements:
- Prior to NUR 3805: RN status or eligible to take NCLEX.
- Prior to NUR 3165: Complete NUR 3805 and Statistics course with grade of “C” (2.0) or better.

Other
- Selected courses may be offered at regional campuses of Daytona and Cocoa.
- The RN-BSN coursework is also offered via the Internet. Some on-campus labs and clinical practica may be required. For further information access http://www.cohpa.ucf.edu/nursing/.

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

http://www.cohpa.ucf.edu/health.pro/radtransfer.cfm

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.

- Criminal history information (background check) must be submitted. For Florida residents the criminal history must be certified by the Florida Department of Law Enforcement (FDLE).
- A personal interview is also required.
- 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).
- Students must be certified in radiography and be in good standing with the American Registry of Radiologic Technologists (ARRT).

Degree Requirements

- Students should consult with a departmental advisor.
- Many of the courses designated in sections 1 and 2 below may be taken at a Florida community college, and should usually be completed in the first 60 hours.
- A minimum overall GPA of 2.5 and a minimum grade of “C” (2.0) in prerequisite and major courses is required for admission to, continuation in, and graduation from the Radiologic Sciences Program.
- UCF residency requirement for Radiography: 33 hours

1. UCF General Education Program

A. Communication Foundations
   - Select ENC 1102 and SPC 1600 or SPC 1016 (6 hrs)
B. Cultural Historical Foundations
   - 6 hrs
C. Mathematical Foundations
   - MAC 1105 (Completed at CC) (0 hrs)
   - CGS 1060C (Completed at CC) (3 hrs)
D. Social Foundations

2. Common Program Prerequisites

   - CGS 1060C Introduction to Computer Science CC
   - PCB 3703C Human Physiology* CC
   - PHY 2053C College Physics I UCF GEP
   - PHY 2054C College Physics II 4 hrs
   - ZOO 3733C Human Anatomy* CC
   - MAC 1105 College Algebra CC

3. Core Requirements

   A.S. transfer students will not be required to complete all of the core courses listed below. Specific core course requirements will be based on allowable course transfers and career goals.

   Junior Level

   - RTE 3000 Introduction to Radiologic Sciences 3 hrs
   - RTE 3111C Introduction to Patient Care 2 hrs
   - RTE 3503C Radiographic Procedures I 3 hrs
   - RTE 3116 Advanced Patient Care 3 hrs
   - RTE 3418C Principles of Radiographic Exposure I 3 hrs
   - RTE 3930 ST: Clinical Education I 2 hrs
   - RTE 3513C Radiographic Procedures II 3 hrs
   - RTE 3457C Principles of Radiographic Exposure II 3 hrs
   - RTE 3614 Physics of Image Production 2 hrs
   - RTE 3308 Medical Physics 3 hrs
   - STA 2023 Statistical Methods I 3 hrs
   - HSC 4550 Pathophysiologic Mechanisms 3 hrs
   - RTE 3930 ST: Clinical Education II 4 hrs

   Senior Level

   - RTE 4563 Special Radiographic Procedures 2 hrs
   - RTE 4782 Pathophysiology 2 hrs
   - RTE 4932 ST: Clinical Education III 5 hrs
   - RTE 4573 Advanced Imaging Modalities 3 hrs
   - RTE 4574 Computed Tomography Protocols or 1 hr
   - RTE 4579 Mag Resonance Imaging Protocols 1 hr
   - RTE 4932 ST: Clinical Education IV 6 hrs
   - RTE 4385 Radiobiology 1 hr
   - RTE 4932 ST: Clinical Education V - A 2 hrs
   - RTE 4932 ST: Clinical Education V – B 4 hrs
   - RTE 4473 Quality Improvement 3 hrs
   - RTE 4762 Anatomy for the Medical Imager 3 hrs
   - RTE 4206 Leadership in Radiologic Sciences 3 hrs
   - RTE 4932 ST: Advanced Clinical Practicum 4 hrs

Core course requirements will include PHY 2054C. Additional core course requirements will be determined during advisement.

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.

6. Electives

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:

8. University Minimum Exit Requirements

   - An overall GPA of 2.5
   - 60 semester hours earned after CLEP awarded
   - 48 semester hours of upper division credit completed
   - 30 of the last 36 hours of course work must be completed in residence at UCF
   - A maximum of 45 hours of extension, correspondence, CLEP, Credit by Exam, and Armed Forces credits permitted
   - Complete the General Education Program, the Gordon Rule, the CLAST and nine hours of Summer credit (if applicable)
COMMON COURSE NUMBERING SYSTEM

Classification of Courses
The University course numbering system is as follows:

0-0999 Subcollegiate level and not counted in meeting degree requirements.
1000-2999 Freshman and sophomore level courses and are designed primarily for these students.
3000-4999 Junior- and senior-level courses (Upper-division). These courses contain advanced undergraduate level material and are designed primarily for undergraduate juniors and senior.
5000-5999 Beginning graduate and advanced undergraduate level courses. These courses provide more advanced material than that found in undergraduate courses. They are designed primarily for beginning graduate students, but may be suitable for some advanced undergraduate seniors. They are open for registration to all graduate students and those seniors who receive approval of the appropriate Dean(s).
6000-6999 Advanced graduate level courses. These courses are designed to build upon the beginning graduate level courses and to deliver more advanced content and experiences. They are open only to graduate students. (Seniors with the last three digits of graduation that have a minimum 3.0 GPA and do not register for more than twelve hours may request college permission to take a 6000-level class.) Students in 3+2 programs (combined bachelors and masters programs) should check with their advisor before registering for 6000-level courses.
7000-7999 Doctoral-level courses. These courses provide material at the most advanced graduate level. They are restricted to admitted doctoral students only.

Florida’s Statewide Course Numbering System
Courses in this catalog are identified by prefixes and numbers that were assigned by Florida’s Statewide Course Numbering System. This numbering system is used by all public postsecondary institutions in Florida and 33 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

Each participating institution controls the title, credit, and content of its own courses and recommends the first digit of the course number to indicate the level at which students normally take the course. Course prefixes and the last three digits of the course numbers are assigned by members of faculty discipline committees appointed for that purpose by the Florida Department of Education in Tallahassee. Individuals nominated to serve on these committees are selected to maintain a representative balance as to type of institution and discipline field or specialization.

The course prefix and each digit in the course number have a meaning in the Statewide Course Numbering System (SCNS). The list of course prefixes and numbers, along with their generic titles, is referred to as the "SCNS taxonomy." Descriptions of the content of courses are referred to as "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 35 different public postsecondary institutions in Florida and 33 participating non-public institutions. The major purpose of this system is to facilitate the transfer of courses between participating institutions.

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Equivalent courses at different institutions are identified by the same prefixes and same last three digits of the course number and are guaranteed to be transferable between participating institutions that offer the course, with a few exceptions. (Exceptions are listed below.)

For example, a survey course in social problems is offered by 35 different public postsecondary institutions. Each institution uses "SYG 010" to identify its social problems course. The title of the course is the first digit of the course number and the course title means "Sociology." The second digit "1" represents "Survey Course," the third digit "0" represents "Social Problems."

For example, SYG 010 is equivalent to SYG 2010. Transfer credit must be awarded for successfully completed equivalent courses and used by the receiving institution to determine satisfaction of requirements by transfer students on the same basis as credit awarded to the native students. It is the prerogative of the receiving institution, however, to offer transfer credit for courses successfully completed that have not been designated as equivalent.

The Course Prefix
The course prefix is a three-letter designator for a major division of an academic discipline, subject matter area, or sub-category of knowledge. The prefix is not intended to identify the department in which a course is offered. Rather, the content of a course determines the assigned prefix to identify the course.

Authority for Acceptance of Equivalent Courses
Section 1007.24(7), Florida Statutes, states:

For any student who transfers among postsecondary institutions that are fully accredited by a regional or national accrediting agency recognized by the United States Department of Education and that participate in the statewide course numbering system shall be awarded credit by the receiving institution for courses satisfactorily completed by the student at the previous institutions. Credit shall be awarded if the courses are judged by the faculty committees of the receiving institution. The award of credit may be limited to courses that are entered in the statewide course numbering system. Credits awarded pursuant to this subsection shall satisfy institutional requirements on the same basis as credits awarded to native students.

Exceptions to the General Rule for Equivalency
The following courses are exceptions to the general rule for course equivalencies and may not transfer. Transferability is at the discretion of the receiving institution:

A. Courses not offered by the receiving institution
B. Courses with the last three digits ranging from 900-999 (e.g., ART 2905)
C. College preparatory and vocational preparatory courses
D. internship, practica, clinical experiences, and study abroad courses with numbers other than those ranging from 900-999
E. Applied performance or studio courses in Art, Dance, Interior Design, Music and Theatre
F. Skills courses in Criminal Justice
G. Graduate courses
H. For courses at non-regionally accredited institutions, courses offered prior to the established transfer date of the course

Questions about the Statewide Course Numbering System and appeals regarding course credit transfer decisions should be directed to Dr. David Dees, Associate Dean, Undergraduate Studies, Millican Hall 210, University of Central Florida, 4000 Central Florida Parkway, Orlando, FL 32816, or the Florida Department of Education, Office of Articulation, 1401 Turtlecreek Building, Tallahassee, Florida 32399-0400. Special reports and technical information may be requested by calling the Statewide Course Numbering System office at (850) 245-0427, SunCom, 205-0427 or via the internet at http://scns.fldoe.org.
### Common Course Numbering System

#### Example of Course Identifier

<table>
<thead>
<tr>
<th>Prefix</th>
<th>Level Code</th>
<th>Century Digit</th>
<th>Decade Digit</th>
<th>Unit Digit</th>
<th>Lab Code</th>
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<tbody>
<tr>
<td>SYG</td>
<td>1</td>
<td>0</td>
<td>1</td>
<td>0</td>
<td>DEP</td>
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</table>

**Sociology, General**

- **Prefix:** ABE
- **Level Code:** Agricultural and Biological Engineering
- **Century Digit:** Business Law
- **Decade Digit:** CAP
- **Unit Digit:** Computer Applications
- **Lab Code:** DES

**Information:**
- Date: 2007-2008 Undergraduate Catalog
- Updated: Discontinued Effective 2005
- No Laboratory component in this course

---

**Examples:**

- **Prefix:** ABE
- **Grade:** Business Law
- **Level Code:** CAP
- **Century Digit:** Computer Applications
- **Decade Digit:** DIS
- **Unit Digit:** Digital Media
- **Lab Code:** DIM

- **Prefix:** ACO
- **Grade:** Accounting: General
- **Level Code:** CAT
- **Century Digit:** Catalan Language
- **Decade Digit:** CBH
- **Unit Digit:** Comparative Psychology and Animal Behavior
- **Lab Code:** DSC

- **Prefix:** ACR
- **Grade:** HVAC/R: Heating/Ventilation/Air Conditioning/Refrigeration
- **Level Code:** CEE
- **Century Digit:** Civil Construction Engineering
- **Decade Digit:** CCJ
- **Unit Digit:** Criminal Justice and Criminal Justice
- **Lab Code:** EAP

---

**Additional Resources:**

- **University of Central Florida**
- **Catalog:** 2007-2008 Undergraduate Catalog
- **Discontinued Courses:** Effective 2005
- **Academic Program:** Core Competencies
- **Languages:** Enlish, Spanish, Chinese, Arabic

---

**Eligibility:**

- **Awards:** Scholarships, Grants, Financial Aid
- **Program:** Online Degrees, Continuing Education
- **Location:** Campus, Distance Learning

---

**Contact Information:**

- **Address:** University of Central Florida, Orlando, FL 32816
- **Phone:** 407-823-5500
- **Fax:** 407-823-5223

---

**Footer:**

- **University of Central Florida**
- **2007-2008 Undergraduate Catalog**
- **Page 320**
<table>
<thead>
<tr>
<th>Code</th>
<th>Course Name</th>
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<tbody>
<tr>
<td>ETG</td>
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<td>ETI</td>
<td>Engineering Technology: Industrial</td>
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<td>ETM</td>
<td>Engineering Technology: Mechanical</td>
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<td>ETN</td>
<td>Electronromagneticdiagnostics</td>
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<td>EUS</td>
<td>European Studies</td>
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<td>EVI</td>
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<td>Fam Marketing</td>
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<tr>
<td>FAS</td>
<td>Fishery &amp; Aquacultural Science</td>
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<td>Fire and Emergency Services</td>
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<td>FFP</td>
<td>Fire Fighting &amp; Protection</td>
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<td>FIL</td>
<td>Film</td>
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<td>FNR</td>
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<td>Family, Youth, and Community</td>
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<td>GCO</td>
<td>Golf Course Operations</td>
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<td>GEB</td>
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<td>Motorcycle Mechanics</td>
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<td>Massage</td>
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<td>Mathematics - Technical and Business</td>
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<td>MUG</td>
<td>Music - Conducting</td>
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<td>Historical Instruments</td>
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<td>Oral Interpretation</td>
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</table>
Common Course Numbering System

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-colligate level and may not be counted in meeting degree credit hour requirements for graduation.

Special Courses

In addition to the regular courses listed in this catalog, special courses may be available. Students should consult their academic advisor for details.

Special Undergraduates

Directed Independent Studies 1906, 2905, 3905, 4906, 5907 5907
Directed Independent Research 4912, 5917

Special Undergraduate Research 1931, 2930, 3930, 4932, 5937

*internship, Practicums, Clinical Prac 3940, 4941, 5942

Cooperative Education 1949, 2949, 3949, 4949

Honors Undergraduate Thesis 3970, 4970

Honors Directed Reading 4903

Study Abroad 4904

5957

*These courses may be assigned variable credit. Some may be repeated upon approval.

The Special Graduate Courses are primarily for graduate students, but may be taken by advanced seniors with the consent of their deans.

Enrollment is limited to those students who are fully admitted to the Graduate Program.

Enrollment is limited to those students who are admitted into the Co-op program.

Dual Usage of Credit Hours

With the exception of 3 + 2 programs, courses used to meet the requirements of an undergraduate degree cannot typically also be used to meet the requirements of a graduate program. Students should contact their advisor or college for specific program requirements or additional information.

UCF Course Description Legend

PR: (Prerequisite) A course in which credit must be earned prior to enrollment in the listed course.

CR: (Corequisite) A course that must be taken concurrently with, or prior to, the listed course.

CI: (Consent of the Instructor)

Hours Code

Each course listed is followed by a code that shows hours of credit and contact hours. Example:

ENV 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.

Related Links:

Common Course Numbering System

2007-2008 Undergraduate Catalog

UNIVERSITY OF CENTRAL FLORIDA
<table>
<thead>
<tr>
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UCF Courses and Descriptions

Finding a Course in this List: The UCF courses in this section are listed alphabetically by prefix. Consult the "Common Course Numbering System" section of the Undergraduate Catalog for additional information.

Availability of Courses: The University does not offer all of the courses listed in this Undergraduate Catalog each academic year, academic semester, or term. Consult the online Class Schedule at https://my.ucf.edu for those courses offered each semester/term.

At the end of each course description is information on the planned scheduling of the course, (Fall, Spring or Occasional-department scheduled, Odd-Even based on year of term), and any applicable Material and Supply (M&S) Fee.


AIG 2071 BA-ACCT 3(3,0) Principles of Managerial Accounting: PR: AIG 2021 and MAC 1105 or equivalent. The purpose of this class is to thoroughly familiarize the student with the various uses of accounting information for planning and control. Fall, Spring.

AIG 3082 BA-ACCT 3(3,0) Accounting For Non-Business Majors: PR: Junior Standing. Accounting and reporting from an investment and managerial decision making perspective. Occasional.

AIG 3131 BA-ACCT 3(3,0) Financial Accounting Concepts and Analysis: PR: Junior Standing. Accounting major or minor, and AIG 2071 with a grade of “C” (2.0) or better. Technical knowledge about accounting measurement, and disclosure plus the study of how accounting reports are analyzed, and interpreted by external users. Fall, Spring.

AIG 3141 BA-ACCT 3(3,0) Intermediate Financial Accounting: PR: Accounting major or minor, AIG 3131 with a grade of “C” (2.0) or better. Accounting theory and practice related to preparation, and interpretation of external financial statements. Fall, Spring.

AIG 3361 BA-ACCT 3(3,0) Cost Accounting I: PR: Junior standing. Accounting major or minor, and MAC 1105, ECO 2013, ECO 2023, and AIG 2071 with a grade of “C” (2.0) or better. Technical knowledge about accounting measurement, and disclosure plus the study of how accounting reports are analyzed, and interpreted by external users. Fall, Spring.

AIG 3501 BA-ACCT 3(3,0) Financial Accounting for Governmental and Nonprofit Organizations: PR: Accounting major or minor, and AIG 3131 and CGS 2100C, with a grade of “C” or better. Manual and computer-based accounting information systems. Fall, Spring.


AIG 4401C BA-ACCT 3(3,1) Accounting Information Systems: PR: Accounting major or minor, AIG 3311 and COS 2100C, with a grade of “C” or better. Manual and computer-based accounting information systems. Fall, Spring.

AIG 4651 BA-ACCT 3(3,0) Auditing: PR: Accounting major or minor, AIG 3141 and AIG 401C with a grade of “C” or better. The standards, practices, and procedures followed in the audit function. Fall, Spring.

AIG 4671 BA-ACCT 3(3,0) Internal Auditing: PR: Accounting major or minor, AIG 3141 or AIG 3361. Theory and practice of internal auditing and the use of internal auditing in organizational control. Fall, Spring.


AIG 5346 BA-ACCT 3(3,0) Advanced Managerial Accounting: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and AIG 3361 with a grade of “C” or better and ECO 3411. Advanced and current techniques for generation and use of accounting information in managerial decision-making. Fall, Spring.

AIG 5405 BA-ACCT 3(3,0) Advanced Accounting Information Systems: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and AIG 4401C. Design, analysis and evaluation of accounting information systems. Fall, Spring.

AIG 5517 BA-ACCT 3(3,0) Financial Accounting and Auditing for Governmental and Nonprofit Organizations: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and AIG 3501 or consent of Graduate Program Advisor. Financial accounting and reporting for funds and activities of governments and nonprofit organizations; financial audit of government and nonprofit organizations. Occasional.

AIG 5625 BA-ACCT 3(3,0) Auditing and EDP: PR: Acceptance for graduate study, AIG 4401C, and AIG 4651. An examination of auditing procedures followed when a company uses a computer to process financial records. Occasional.

AIG 5735 BA-ACCT 3(3,0) Financial Accounting and Auditing for Governmental and Nonprofit Organizations: PR: Acceptance in the graduate program, or Accounting major or minor in term of graduation, and AIG 3501 or consent of Graduate Program Advisor. Financial accounting and reporting for funds and activities of governments and nonprofit organizations; financial audit of government and nonprofit organizations. Occasional.

AIG 5820 BA-ACCT 3(3,0) Financial Reporting: PR: SPC 1600. Overview of the field of financial reporting; purposes, techniques, the role of agencies, advertisers and the media. Fall, Spring.

ADV 4010 COS-COMM 3(3,0) Advertising Copywriting: PR: AD/PR majors only and ADV 3008. Advertising copywriting teaches the development of creative strategies for advertising and emphasizes writing for various ad media. Fall, Spring.

ADV 4103 COS-COMM 3(3,0) Radio-Television Advertising: PR: R/TV or AD/PR Majors only and ADV 3008 or C.I. Radio and television advertising sales, including interpretation of rate structures, program audiences, and creative approaches to sponsor needs. Fall, Spring.

ADV 4300 COS-COMM 3(3,0) Advertising Media Planning: PR: ADV 3008 and AD/PR major. Media planning and buying, including basic media terms, calculations, and resources. Occasional.


AFA 3102 CAH-AAS 3(3,0) Black Perspectives: A Multidisciplinary Approach: PR: ENC 1102. Key issues and methodologies in African American Studies featuring presentations by representative faculty from various disciplines. Fall, Spring.


AFA 3955 CAH-AAS 6(6,0) Study Abroad in Eastern Caribbean: PR: LAS 4023 or Junior standing. Interdisciplinary study abroad program focuses on the arts and humanities of African diasporic cultures in the Eastern Caribbean. Occasional.


AFA 5930 CAH-AAS 3(3,0) Topics in African American Studies: PR: graduate status or senior standing or C.I. This interdisciplinary seminar uses primary texts to examine the impact of black culture, aesthetic and philosophical ideas on 20th century American society. Occasional.

AFH 3100 CAH-HIST 3(3,0) African History to 1870: PR: C.I. Sub-Saharan African institutions and peoples from the earliest time until 1870. Occasional.

AFH 3200 CAH-HIST 3(3,0) African History Since 1870: PR: C.I. Sub-Saharan African history from 1870 to the present. Occasional.

AFH 5806 CAH-HIST 3(3,0) The Historiography of Slavery in Africa: PR: graduate status or senior standing or C.I. Course covers the central issues and controversies in the historiography of slavery in Africa. Occasional.
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<tr>
<td>AMH 2130C</td>
<td>The Development of Air Power I: A study of the development of air power from experiments by 18th-century balloonists to the achievement of combat air power capabilities during World War II. Hands on training. Fall.</td>
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<tr>
<td>AMH 2131C</td>
<td>The Development of Air Power II: A study of the development of aerospace capabilities since World War II, highlighting technological advancements and the role of aerospace power in the contemporary world. Spring.</td>
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<tr>
<td>AMH 3220C</td>
<td>Air Force Leadership and Management: An introductory study of Air Force management fundamentals, communications skills, and basic leadership styles. Hands on training. Fall.</td>
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<td>AMH 3370</td>
<td>American Economic History: PR: AMH 2010 and AMH 2020, or C.I. An introduction to the economic development of the U.S., with emphasis on agriculture, labor, industrialization, transportation, and banking. Occasional.</td>
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<td>AMH 3402</td>
<td>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. Occasional.</td>
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<td>AMH 3403</td>
<td>History of the South Since 1865: PR: AMH 2010 and AMH 2020, or C.I. Reconstruction, the &quot;solid South&quot; and the racial dilemma, progressivism for whites only, southern literature, 20th-century economic, political and social changes, and the new Reconstruction. Occasional.</td>
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<td>AMH 3442</td>
<td>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. Occasional.</td>
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<tr>
<td>AMH 3542</td>
<td>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. Occasional.</td>
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<td>AMH 3800</td>
<td>Canadian History: Canada since Colonial times and the present, but with emphasis on the period since the British North America Act, 1867. Occasional.</td>
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<td>AMH 4110</td>
<td>Colonial America, 1607-1763: PR: AMH 2020 and 2020 or C.I. The voyages of discovery, the origins of the thirteen colonies, and their political, economic, social, and religious life in the 17th and 18th centuries. Occasional.</td>
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<tr>
<td>AMH 4112</td>
<td>The Atlantic World: PR: C.I. The impact and transforming effect of the Atlantic System on the peoples of Western Europe, Western Africa, the Caribbean and the Americas. Occasional.</td>
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<td>AMH 4140</td>
<td>Jeffersonian America: PR: AMH 2010 and 2020 or C.I. The Confederation era, the Federalists, Jeffersonian Democracy, and the War of 1812. Occasional.</td>
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<td>AMH 4160</td>
<td>Jacksonian America: PR: AMH 2010 and 2020 or C.I. The risk of American nationalism, Jacksonian Democracy, the Mexican War, and sectional conflict. Occasional.</td>
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<td>AMH 4170</td>
<td>Civil War and Reconstruction: PR: AMH 2010 and 2020 or C.I. Reconstruction, and impact of industrialism. Occasional.</td>
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<td>AMH 4201</td>
<td>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. Occasional.</td>
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<td>AMH 4231</td>
<td>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. Occasional.</td>
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<td>AMH 4270</td>
<td>United States History: 1939-1966: PR: AMH 2010 and 2020 or C.I. World War II, the Cold War and America in the fifties. Occasional.</td>
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ANT 3320 COS-ANTHRO 3(3,0) Indians of the Southwest: PR: ANT 2000. Native American culture types of the southwest: Navajo, Pueblo (Zuni, Hopi, Tewa), Apache (Lipan, Mescalero), and Desert American culture types of the southwest: Navajo, Pueblo.

ANT 3330 COS-ANTHRO 3(3,0) Cultural Ecology of Amazonia: PR: Any 2000 level social science course or C.I. The cultural ecology and adaptive strategies of native Amazonians, including effects of modernization on resource use and cultural survival. Occasional.


ANT 3358 COS-ANTHRO 3(3,0) Life and Death in Ancient Egypt: PR: Any 2000 level Anthropology course. Use of archaeology and physical anthropology to examine the lives and death of both common citizens and royalty in Ancient Egypt (3200 B.C.E.-A.D. 500). Occasional.

ANT 3362 COS-ANTHRO 3(3,0) Peoples of Southeast Asia: PR: ANT 2000 or C.I. A survey of the peoples of Vietnam, Cambodia, Laos and Thailand from the anthropological perspective. Occasional.

ANT 3363 COS-ANTHRO 3(3,0) Anthropology of Japan: An examination of Japanese culture and its contemporary behavioral and organizational patterns by drawing upon anthropology, cultural history, linguistics, cultural anthropology, and social organization. Occasional.

ANT 3450 COS-ANTHRO 3(3,0) Living in the USA: Anthropological Perspectives: PR: ANT 2000 or SYG 2000 or PSY 2012 or C.I. Ethnographic study of diverse experiences of life in the United States. Special focus on class, race, gender, citizenship, generation, and religion. Occasional.

ANT 3451 COS-ANTHRO 3(3,0) Biobehavioral Anthropology: An introduction to the study of human behavior in terms of mutual interaction between human biology and cultural environments. Spring.

ANT 3455 COS-ANTHRO 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. Occasional.

ANT 3640 COS-ANTHRO 3(3,0) Language and Culture: PR: Sophomore standing. The study of language in a non-western setting: language and behavior; language and perception. Spring.

ANT 3701 COS-ANTHRO 3(3,0) Applied Anthropology: PR: ANT 2000 or C.I. Application of anthropological methods to current human problems such as the environment, migration, globalization and health. Occasional.

ANT 3949 COS-ANTHRO 0(0,8) Cooperative Education in Anthropology: PR: Departmental permission required before registering. Cooperative education experience in anthropology. Graded S/U. May be repeated for credit. Occasional.

ANT 4034 COS-ANTHRO 3(3,0) History of Anthropological Thought: The exploration of the intellectual foundations of modern anthropology. Spring.

ANT 4101 COS-ANTHRO 3(3,0) Archaeological Sciences: PR: ANT 2511, or ANT 2200, or C.I. Methods and instrumentation routinely used in archaeology and forensic archaeology. Spring.

ANT 4144 COS-ANTHRO 3(3,0) Prehistory of North America: PR: Any lower level course in the social sciences. The rise of North American Native culture from the earliest evidence of human occupation in the New World: e.g., the Folsom, Clovis, Sandia, etc., to the time of contact with European cultures. Occasional.

ANT 4153 COS-ANTHRO 3(3,0) North American Archaeology: PR: Any lower level social science course. The cultural development of Native North Americans from prehistoric times to the period of the first European contact. Occasional.

ANT 4180C COS-ANTHRO 3(1,4) Seminar in Laboratory Analysis: The processing of archaeological finds from excavation through publication. May be repeated for credit. Spring.

ANT 4184 COS-ANTHRO 3(3,0) Mortuary Archaeology: PR: ANT 2000, or ANT 2100, or ANT 2511 or C.I. Archaeological interpretations of death; basic data collection, skeletal analysis, and comparative study of mortuary ritual - both ancient and modern. Occasional.


ANT 4308 COS-ANTHRO 3(3,0) Gender Issues in Latin America: PR: Completion of a lower-level social science course or its equivalent. Issues and gender in Latin America through an anthropological approach, both theoretical and practical, with special attention to women's lives. Occasional.

ANT 4332 COS-ANTHRO 3(3,0) People and Cultures of Latin America: PR: ANT 2000, or SYG 2000, or PSY 2012 or C.I. History and society of the peoples of Latin America, emphasizing patterns of subsistence and social organization. Odd Fall, Spring.

ANT 4340 COS-ANTHRO 3(3,0) Caribbean 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. Occasional.

ANT 4352 COS-ANTHRO 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. Occasional.


ANT 4438 COS-ANTHRO 3(3,0) Anthropology of Tourism: PR: ANT 2000, or SYG 2000, or PSY 2012, or C.I. Social theory of tourism; anthropology of tourism in U.S. and world regions, including impacts on local peoples, cultures, and environments. Occasional.

ANT 4462 COS-ANTHRO 3(3,0) Medical Anthropology: PR: ANT 2000 or ANT 2511 or C.I. The field of medical anthropology. Topics will include theories, methods, and applications. Occasional.

ANT 4467 COS-ANTHRO 3(3,0) Nutritional Anthropology: PR: One 2000 level course in social sciences and one 2000 level course in biological sciences or C.I. Psychological, biological, social, cultural, and environmental influences of food consumption and physiological status. Perspectives are cross-cultural, ecological and evolutionary. Occasional.

ANT 4516 COS-ANTHRO 3(3,0) Human Biological Diversity: PR: ANT 2511 or C.I. Human biological variation and adaptation. Occasional.

ANT 4521C COS-ANTHRO 3(3,0) Forensic Anthropology: PR: ANT 2511 or C.I. The study of human skeletal remains in relation to a legal context. Occasional.


ANT 4528C COS-ANTHRO 5(3,3) Advanced Forensic Anthropology: PR: ANT 4521C. Advanced laboratory methods in forensic anthropology, including skeletal analysis and the application of archaeological techniques to the recovery of human remains. Even Spring.

ANT 4586 COS-ANTHRO 3(3,0) Human Origins: PR: ANT 2511. The fossil evidence for human evolution from hominid hominoids through the australopithecines and the earliest members of the genus Homo. Spring.

ANT 4702 COS-ANTHRO 3(3,0) Culture, Power and Development: PR: ANT 2000, or SYG 2000, or PSY 2012 or C.I. Anthropological perspective on origins and contemporary ramifications of underdevelopment and disempowerment in the world system. Occasional.


ANT 4824 COS-ANTHRO 9(9,0) Advanced Archaeological Fieldwork: PR: Students admitted only with permission of instructor. Supervised archaeological fieldwork. Spring.


ARA 1120 CAH-LANG 4(4,1) Elementary Arabic Language and Civilization I: PR: Any 1000 level language course. Introduces the student to Arabic language skills. Open only to students with no experience in the language. Fall.

ARA 1120H CAH-LANG 4(4,1) Honors Elementary Arabic Language and Civilization I: PR: Permission of Honors. Introduction to Arabic language skills. Open only to students with no experience in the language. Honors level content. Occasional.


ARA 2200 CAH-LANG 3(3,1) Intermediate Arabic Language and Civilization I: PR: ARA 1121 or C.I. Development of language skills and cultural knowledge at the intermediate level. Occasional.
ARA 2201 CAH-LANG 3(3,0)
Intermediate Arabic II: PR: ARA 2200 (Intermediate Arabic I) or equivalent or C.I. Continuation of ARA 2200 with emphasis on Arabic cultures. Fall, Spring.

ARE 2011 ED-CFCS 3(3,0)
Early Childhood Art and Creativity: An examination of developmental patterns in children's artistic behaviors and appropriate instructional strategies to be implemented. Occasional. M&S fee: $5.00

ARE 3944 CAH-ART 3(2,3)
Community Arts Practicum: PR: C.I. A supervised experience for students to facilitate art programming in a variety of community settings. Occasional.

ARE 4250 ED-TLP 3(3,0)
Art for Exceptionalities: PR: EDG 4223 and at least junior standing or C.I. Concepts, principles, and methods of integrating art processes into the education of students with physical, emotional, and mental disabilities. Occasional.

ARE 4262 CAH-ART 3(3,0)
Methods in Art Administration: PR: ARH 3820. Theories and methodologies for designing, implementing and administering art programs for a variety of populations. Occasional.

ARE 4313 ED-TLP 1(1,0)
Art in the Elementary School: PR: EDF 2005; CR: MUE 3210, HLP 4722, RED 4519, MAE 4526, and EDE 3942. Basic principles, purposes, scope and sequence; organization for instruction; evaluation of activities; selected art experiences. Fall, Spring. M&S fee: $5.00

ARE 4351 ED-TLP 3(2,1)
Teaching Art in the Elementary School: PR: EDF 4214 and EDG 4233. Transition from university art studio practices to public school teaching of art. Organizing, designing and analyzing art experiences, activities and classroom environments for the elementary school classroom. Fall. M&S fee: $5.00

ARE 4352 ED-TLP 3(2,1)
Teaching Art in the Secondary School: PR: EDF 4214, and EDG 4233. Transition from university art studio practices to High School Teaching of art. Organizing, designing and analyzing art experiences and activities appropriate for junior high and high school children. Examination of teaching methodology relative to the high school and junior high school settings. Spring. M&S fee: $5.00

ARE 4356 ED-TLP 3(3,1)
Teaching Art Appreciation & Criticism in the Classroom: PR: ARH 2050 and ARH 2051. An examination of art appreciation programs and concepts toward planning curriculum for the study of art history, popular art, art criticism, and aesthetics for specific educational settings. Fall. M&S fee: $5.00

ARE 4453 ED-TLP 3(3,0)
Studio Experiences in Art Education: PR: Completion of all Art Education Program Prerequisites or C.I. Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productive qualities. May be repeated for credit. Spring. M&S fee: $5.00

ARE 4945 CAH-ART 12(0,12)
Community Arts Internship: PR: C.I. An on-site in-depth experience for community arts majors with a concentration in administration, education, or therapeutic experience. Occasional.

ARE 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. Occasional.

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. Occasional.

ARE 5359 ED-TLP 4(4,0)
Teaching Art K-12: PR: Admission to M.A. in Art Education, graduate standing or C.I. Transition from university art practices to public school teaching of art. Organize, design, and analyze art learning for students K-12. Occasional. M&S fee: $5.00

ARE 5454 ED-TLP 3(3,0)
Studio Experiences in Art Education: PR: Graduate admission or C.I. Materials available for instruction in public schools will be explored in depth in relation to their appropriateness and productive qualities. May be repeated for credit. Spring. M&S fee: $5.00

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. Occasional.

ARH 2050 CAH-ART 3(3,0)
History of Western Art I: Painting, sculpture and architecture from the Prehistoric Era through the Renaissance. Occasional.

ARH 2050H CAH-ART 3(3,0)
Honors History of Western Art I: PR: Permission of Honors. Painting, sculpture and architecture from the Prehistoric Era through the Renaissance, with honors content. Occasional.

ARH 2051 CAH-ART 3(3,0)
History of Western Art II: Painting, sculpture and architecture from the Baroque through the 20th century. Fall, Spring.

ARH 2051H CAH-ART 3(3,0)
Honors History of Western Art II: PR: Permission of Honors. Painting, sculpture and architecture from the Baroque through the 20th century; with honors-level content. Occasional.

ARH 2510 CAH-ART 3(3,0)
History of Non-Western Art: Major visual arts in various non-Western cultures. Fall, Spring.

ARH 3454 CAH-ART 3(3,0)
Happenings and Conceptual Art: PR: Junior Standing or C.I. Aesthetic and social significance of "Total Art" in its attempt to break down customary distinctions between life and art. Occasional.

ARH 3471 CAH-ART 3(3,0)
Art in the Last 25 Years: PR: ARH 2050 and ARH 2051 or C.I. A seminar for upper-level art students to examine current trends in the visual arts. Occasional.

ARH 3520 CAH-ART 3(3,0)
African Art: PR: Junior status, ARH 2050, or C.I. Art objects produced in Africa and African sites; with some consideration of arts of the African Diaspora. Occasional.

ARH 3570 CAH-ART 3(3,0)
Ceramics of the Muslim World: PR: ARH 2050 or C.I. Islamic Art and the stylistic and technical characteristics of the period, in contrast to pre-Islamic or other civilizations such as the ancient Greeks, Egyptians, Babylonians, and Chinese. Occasional.

ARH 3610 CAH-ART 3(3,0)
American Art: PR: ARH 2050 and ARH 2051. C.I. American Art and Architecture from 1500 to 1800. Leading artists are identified and representative examples of their work are discussed within the context of major themes, patterns, sources. Occasional.

ARH 3631 CAH-AAS 3(3,0)

ARH 3632H CAH-ART 3(3,0)

ARH 3670 CAH-ART 3(3,0)
20th Century Latin American Art: PR: ARH 2050 and ARH 2051 or C.I. Art of the modern era (1900 to 1980) in the Caribbean and South America; issues and characteristics of art as they reflect the cultural evolution of Latin America. Occasional.

ARH 3673 CAH-ART 3(3,0)
Modern Art of Mexico: PR: ARH 2050 or ARH 2051 or C.I. Modern art of Mexico from the Mexican Academy post-independence to the 1980’s. Occasional.

ARH 3674 CAH-ART 3(3,0)

ARH 3683 CAH-ART 3(3,0)
Southern Folk Arts: PR: Junior Standing or C.I. This course will explore contemporary issues related to folk art including definition, collecting, marketing, art criticism, tradition, innovation, and its relationship to the so-called fine arts and popular arts. Occasional.

ARH 3710 CAH-ART 3(3,0)
History of Photography I: PR: Junior Standing or C.I. History of still photography from its earliest inception to 1900. The content of this course is designed for art majors. Occasional.

ARH 3711 CAH-ART 3(3,0)
History of Photography II: PR: Junior Standing or C.I. History of still photography from the early 20th century to the present. The content of this course is designed for art majors. Occasional.

ARH 3720 CAH-ART 3(3,0)
History of Prints: PR: ARH 2050 and ARH 2051 or C.I. History of printmaking in the Western world, surveying works by the “great printmakers.”. Occasional.

ARH 3820 CAH-ART 3(3,0)
Visual Arts Administration Vitas: PR: Junior Standing or C.I. Grant applications; Personnel; copyright laws; museum practices, etc. Occasional.

ARH 4170 CAH-ART 3(3,0)
Greek & Roman Art: PR: ARH 2050 or HUM 3433 and ENC 1102 or C.I. A study of the art and architecture of the ancient civilizations of the Mediterranean, comprising Greece, Etruria, and Rome. Occasional.

ARH 4200 CAH-ART 3(3,0)
Medieval Art: PR: ARH 2050 and ARH 2051. Medieval Art from the 6th through 14th centuries, including painting, architecture, sculpture and illuminated manuscripts. Occasional.

ARH 4310 CAH-ART 3(3,0)
Italian Renaissance Art: PR: ARH 2050 and ARH 2051 or C.I. Italian Art and architecture from 1300 to 1600. Odd Springs.

ARH 4350 CAH-ART 3(3,0)
Baroque Art: PR: ARH 2050 and ARH 2051 or C.I. A study of European Art in the 17th and 18th centuries. Occasional.
ART 2201C CAH-ART 3(2,4)  
Design Fundamentals-Two Dimensional: PR: ART 2200 or C.I. Priority given to students whose major requires this course. Materials, processes, form. Emphasis on two-dimensional design problems, including problems in black and white and basic color theory. Fall, Spring. M&S fee: $15.00

ART 2201H CAH-ART 3(2,4)  
Honors Design Fundamentals-Two Dimensional: PR: ART 2200 or C.I. Priority given to students whose major requires this course. Permission of Honors. Materials, processes, form. Emphasis on two-dimensional design problems, including problems in black and white and basic color theory with Honors content. Occasional.

ART 2203C CAH-ART 3(2,4)  
Design Fundamentals-Three Dimensional: PR: ART 2200 or C.I. Priority given to students whose major requires this course. Basic three-dimensional design using the various sculptural media. Fall, Spring. M&S fee: $15.00

ART 2200C CAH-ART 3(2,4)  
Drawing Fundamentals I: PR: ART 2200 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. Fall, Spring. M&S fee: $10.00

ART 2200H CAH-ART 3(2,4)  

ART 2201C CAH-ART 3(2,4)  
Drawing Fundamentals II: PR: ART 2200C and ART 2200 or C.I. Priority given to students whose major requires this course. Continuation of ART 2200C. Fall, Spring. M&S fee: $10.00

Drawing: Computer as a Medium: PR: ART 2200C and ART 2200C. Aesthetics of sculpture incorporating narrative content and referencing historical contexts. May be repeated for credit. Occasional. M&S fee: $15.00


Digital Effects & Compositing: PR: Animation major and Fall, Spring. M&S fee: $45.00


Intermediate Ceramics: PR: ART 2200C, ART 2200C, ART 2200C, and ART 2200C. Aesthetics of sculpture incorporating narrative content and referencing historical contexts. May be repeated for credit. Fall.

Advanced Ceramics: PR: Intermediate Ceramics. Application of a variety of ceramic handbuilding procedures, including design, glaze application and firing process. Occasional. M&S fee: $35.00

Processes and Ideas in Art: PR: Junior Standing. This course explores 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. Occasional.

M&S fee: $35.00
folio review or C.I. Advanced problems in painting. May be
ART 2300C, ART 2301C, ART 2303C, ART 3760C, and a satisfactory portfolio review or C.I. Advanced problems in the ceramic process. May be repeated for credit. Fall, Spring. M&S fee: $39.99
M&S fee: $30.00
folio review or C.I. The design and construction of kilns, use of refractory materials, and the theory of efficient fuel combustion. Students will use this information to develop projects in their specialization. Occasional.
M&S fee: $25.00
folio review or C.I. A course exploring the history of the Arab-Israeli Conflict. PR: Graduate standing or C.I. May be repeated for credit. Occasional.
M&S fee: $5.00
folio review or C.I. Advanced process in printmaking. May be repeated for credit. Spring.
folio review or C.I. Advanced problems in the ceramic process. May be repeated for credit. Fall, Spring. M&S fee: $35.00
folio review or C.I. Advanced problems in printmaking. May be repeated for credit. Spring.
folio review or C.I. A course exploring digital/electronic art and technology from mid 19th century imperialism and Zionism. PR: Administration to MFA. Students will explore the primary modes of production in early studio. Students will meet periodically with faculty to discuss progress. Professor will meet with the whole class periodically in order to facilitate a group critique of work completed. May be used in the degree program a maximum of 3 times. Fall, Spring.
folio review or C.I. A course exploring the history of the Arab-Israeli Conflict. PR: Graduate standing of C.I. may be repeated for credit. Fall.
folio review or C.I. A course exploring the history of the Arab-Israeli Conflict. PR: Graduate standing of C.I. May be repeated for credit. Occasional.
folio review or C.I. A course exploring digital/electronic art and technology from mid 19th century imperialism and Zionism. PR: Administration to MFA. Students will explore the primary modes of production in early studio. Students will meet periodically with faculty to discuss progress. Professor will meet with the whole class periodically in order to facilitate a group critique of work completed. May be used in the degree program a maximum of 3 times. Fall, Spring.
folio review or C.I. The content of this course will include an exploration and design of interface interactions systems and technologies in contemporary society and culture including interaction methods, structure and content and be exposed to binding and printing methods in book production. Fall, Even Spring. M&S fee: $25.00
folio review or C.I. An in-depth understanding of the singular and diverse properties of clay and glazed materials. Occasional. M&S fee: $35.00
folio review or C.I. The design and construction of kilns, use of refractory materials, and the theory of efficient fuel combustion. Students will use this information to develop projects in their specialization. Occasional.
BSC 2011H COS-BIOL 4(2,6)
Honors Biodiversity: PR: Permission of Honors and BSC 2010H or C.I. BSC 2011C for honors students; enhanced by considerable field work, a CD-ROM text; relevant video programs and readings written by authorities in the field. Occasional.

BSC 2420 BCBS-M&M 3(3,0)

BSC 3403C BCBS-M&M 4(3,4)
Quantitative Biological Methods: PR: BSC 2010C, MCB 3202C, CHM 2046. A laboratory course which presents modern methods and instrumentation used in quantitative biological experimentation. Fall, Spring. M&S fee: $15.00

BSC 3404H BCBS-M&M 4(3,4)
Quantitative Biological Methods-Honors: PR: Consent of Honors, BSC 2010C, MCB 3202C, CHM 2046. A laboratory course which presents the concepts, modern methods, techniques and instrumentation used in quantitative biological and molecular biological experimentation. Honors level. Fall.

BSC 3424 BCBS-M&M 3(3,0)
Biotechnology: PR: MCB 1310, and either CHM 2046 or PHY 2054C. Biological processes in nano scale interactions with elements of physics & engineering. Occasional.

BSC 3949 COS-BIOL 0(0,8)

BSC 4101 COS-BIOL 3(3,0)

BSC 4312C COS-BIOL 4(3,3)
Marine Biology: PR: PCB 3044 and STA 2023. The biological, ecological, physical and chemical aspects of the world's oceans. Even Spring. M&S fee: $45.00

BSC 4422L COS-BIOL 1-4(0,3-12)
Biology Laboratory Techniques: PR: PCB 3044, 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. Occasional.

BSC 4454 COS-BIOL 2(0,2)
Research in Animal Physiology: PR: PCB 4723. Development of research skills in animal physiology through hands-on experimental design, data collection, use of data analysis software, and communication of results. Occasional.

BSC 4937 COS-BIOL 2(0,2)
Instructional Experiences in Undergraduate Biology: PR: PCB 3043. Biology major with 80 semester hours and 3.0 gpa. Preparation of undergraduate students to more effectively learn biological concepts by facilitating learning in variety of university biology labs. May be repeated for credit. Graded S/U. Fall, Spring.

BSC 5258L COS-BIOL 3(0,3)
Tropical Biology Research and Conservation: PR: Graduate standing or C.I. Research and conservation in New World tropics, including a field trip to Belize. Tropical biodiversity and forest ecology, integrating conservation strategies in research and communication. Occasional.

BSC 5408L COS-BIOL 3(0,9)
Advanced Biology Laboratory Techniques: PR: BS degree, C.I. This course will emphasize those biological techniques and resources necessary for students about to begin thesis research. Individual and small group instruction in current laboratory techniques, literature searches, and hands-on practice of techniques will be stressed. May not be repeated for credit. Occasional. M&S fee: $15.00

BSC 5418 BCBS-M&M 3(3,0)
Tissue Engineering: PR: Graduate standing. Introduction to Tissue Engineering with a special emphasis on the current status of the field, on novel methods and on cell- bio-material interactions. Occasional.

BSC 5817 COS-BIOL 3(3,0)
Biology for AP Teachers: PR: Graduate status or senior standing or C.I. Participants will perform and evaluate the 12 required labs, analyze the design and grading of the Exam, and develop a representative program. Occasional.

BTE 4410 ED-TLP 3(0,3)
Course Construction in Business Education: PR: EVT 3865 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. Occasional.

BUL 3130 BA-ACCT 4(4,0)
Legal and Ethical Environment of Business: PR: Junior standing and business major or minor. Analysis of the law as a dynamic social and political institution in the business environment, including contract law, torts, and ethical consideration. Fall, Spring.

BUL 3130H BA-ACCT 4(4,0)
Legal & Ethical Environment of Business - Honors: PR: Junior standing and business major or minor, permission of Honors. Analysis of the law as a dynamic social and political institution in the business environment, including ethical considerations with honors level. Occasional.

BUL 4540 BA-MAN 3(3,0)

BUL 5332 BA-ACCT 3(3,0)
Advanced Business Law Topics: PR: Admission to graduate program, or Management major or minor in term of graduation. BUL 3130. Advanced business law topics including coverage of the Uniform Commercial Code, torts, commercial paper, and secured transactions. Fall, Spring.

BUL 5810 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. Occasional.

CAP 4453 ECS-CS 3(3,0)
Robot Vision: PR: COP 3503C and MAC 2212, or C.I. Pin hole camera and eye, perspective and orthographic projections, the processing of edges, regions, motion, shading, texture, object, robot arm usage. Fall, Spring.

CAP 4630 ECS-CS 3(3,0)

CAP 4720 ECS-CS 3(3,0)
Computer Graphics: PR: COP 3503C and COT 3640 and MAC 2147 or equivalent. Math for computer graphics, visualization and shading, graphics and data structure, curves and surfaces, commodity graphics hardware, and graphics API. Occasional.

CAP 5015 ECS-CS 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. Occasional.

CAP 5415 ECS-CS 3(3,0)
Computer Vision: PR: COP 3503C, MAC 2312 and COT 3960. Image formation, binary vision, region growing and edge detection, shape representation, dynamic scene analysis, texture, stereo and range images, and knowledge representation. Fall.

CAP 5417 ECS-CS 3(3,0)
Algorithms on Strings and Sequences: PR: COT 3100C or C.I. Exact and approximate pattern matching, k-mismatch problem, suffix tree, generalized suffix tree, sequence similarity, sequence alignment, multiple sequence alignment, dynamic programming methods, bioinformatics applications. Occasional.

CAP 5419 ECS-CS 3(3,0)

CAP 5510 ECS-CS 3(3,0)
Bioinformatics: PR: Background in programming language or molecular biology. This course introduces problems, concepts, algorithms, and applications in Bioinformatics. It covers essential topics such as sequence alignment and prediction of gene and protein structure. Occasional.

CAP 5512 ECS-CS 3(3,0)
Evolutionary Computation: This course covers the field of evolutionary computation, focusing on the theory and application of genetic algorithms. Spring.

CAP 5610 ECS-CS 3(3,0)

CAP 5636 ECS-CS 3(3,0)

CAP 5725 ECS-CS 3(3,0)
Computer Graphics II: Architecture of graphics processors; display hardware; principles of programming and display software; problems and applications of graphic systems. Spring.

CBH 3003 COS-PsyCh 3(3,0)

CCE 4003 COS-CEE 3(3,0)
Introduction to the Construction Industry: PR: EGN 3613, ENV 3001, EGN 3310 with a grade of "C" or better. Project delivery systems, construction contracts; estimating and scheduling; ethics and labor issues. Multi-disciplinary experience in engineering. Fall.

CCE 4004 COS-CEE 3(3,0)
Construction Methods: PR: CES 4100C. Construction project evaluation principles along with construction methods for civil and structural systems. Spring.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Sequence</th>
</tr>
</thead>
<tbody>
<tr>
<td>CCE 4031</td>
<td>Construction Project Management</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCE 4034</td>
<td>Construction Estimating and Scheduling</td>
<td>3(3,0)</td>
<td>Fall</td>
</tr>
<tr>
<td>CCE 4402</td>
<td>Construction Equipment and Productivity</td>
<td>3(3,0)</td>
<td>Fall</td>
</tr>
<tr>
<td>CCE 4810C</td>
<td>Construction Design Project</td>
<td>3(2,2)</td>
<td>Fall</td>
</tr>
<tr>
<td>CCE 4813</td>
<td>Mechanical and Electrical Systems for Buildings</td>
<td>4(4,0)</td>
<td>Fall, Spring</td>
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<tr>
<td>CCE 5006</td>
<td>Introduction to Construction Industry</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
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<tr>
<td>CCE 5036</td>
<td>Construction Estimation and Scheduling</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
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<tr>
<td>CCE 5205</td>
<td>Construction Methods</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
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<tr>
<td>CCE 5406</td>
<td>Construction Equipment and Productivity</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCE 5815</td>
<td>Mechanical and Electrical Systems for Buildings</td>
<td>4(4,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 3014</td>
<td>Crime in America: A survey of crime and criminality in the United States, with emphasis on crime data, its weaknesses, and types of criminal behavior. Fall, Spring.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 3024</td>
<td>Criminal Justice System: An examination of the components and their interdependence in light of their traditional autonomy. Fall, Spring.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 3058</td>
<td>Origins of Criminal Justice: CCJ 3034. Study of criminal justice system evolution. Focus on developments contributing to the institutions and practices of the American criminal justice system. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 3450</td>
<td>The Criminal Justice Manager: PR: CCJ 3024 or C.I. Elements of first-line supervision and executive development. Administrative leadership; its nature, methods, and traits. Recent theories and research in leadership. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 3451</td>
<td>Justice System Technology: PR: CCJ 3024 or C.I. Examination of the relevance of scientific and technological developments to justice systems and their applicability to the operations and management of the systems. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 3483</td>
<td>Labor Relations in Criminal Justice: PR: CCJ 3024 and CCJ 3450 or C.I. Examine the role of public sector labor relations in criminal justice to include management-employee relationships, collective bargaining process, employee organizations, and federal-state laws. Occasional.</td>
<td>4(4,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 3520H</td>
<td>Honors Juvenile Offenders: An Integrative Perspective: PR: Permission of Honors. To provide students with an integrative and comprehensive understanding of the American juvenile justice interview process including historical, psychological, and legal dynamics evident in processing juvenile offenders. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
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<tr>
<td>CCJ 3667</td>
<td>Victims and the CJ System: PR: CCJ 3024. Course examines Victims as they affect the Criminal Justice System, the dimensions of criminal victimization, and victim offender programs. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
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<tr>
<td>CCJ 4035</td>
<td>Crime and the Media: PR: CCJ 3024 or C.I. Explore how the criminal justice system, criminals, and crime are portrayed in the media and its impact on society and the criminal justice system. Fall, Spring.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
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<tr>
<td>CCJ 4076</td>
<td>Crime Analysis II: PR: CJE 4654, CJE 4663. Designed to provide advanced data analysis skills that will enable a crime analysis sophisticated methodologies to crime analysis. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
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<tr>
<td>CCJ 4195</td>
<td>Interviews &amp; Interrogations in CJ: PR: CCJ 3024 (Criminal Justice System) and CJ Major or C.I. The criminal justice interview process including historical and contemporary aspects, the use of Miranda, non-verbal listening, and the rules of testimonial evidence. Fall, Spring.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
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<tr>
<td>CCJ 4296</td>
<td>Famous Crimes &amp; Trials: PR: CCJ 3014 or CCJ 3024 or consent of instructor. A detailed examination of selected famous American crimes and trials since 1900. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 4361</td>
<td>Death Penalty: PR: CCJ 3024. This course provides students an opportunity to analyze and discuss complex issues surrounding the death penalty and the criminal justice system. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
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<tr>
<td>CCJ 4454</td>
<td>Policy Development in Law Enforcement: PR: CJE 4014. The course is designed to deal with policy development in law enforcement. Major issues of organization, administration, personnel practices and police operations will be addressed. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 4459</td>
<td>Justice Agency Operations: PR: CCJ 3024 and CCJ 3450 or C.I. Elements, functions, and processes essential to the continuing management of various criminal justice agencies, institutions and court systems. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 4463</td>
<td>Cultural Diversity in Criminal Justice: PR: CCJ 3024. This course focuses on the problems and issues associated with race, ethnic and gender relations in the administration of justice in a democratic society. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 4484</td>
<td>Liability Issues in Criminal Justice: PR: CCJ 3024. Student of fundamental concepts found in civil law with an emphasis on civil liability regarding criminal justice practices. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 4486</td>
<td>Criminal Justice Ethics: Focuses on the ethical issues and problems commonly encountered in the criminal justice system (policy courts and corrections). Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 4616</td>
<td>Criminal Profiling in Criminal Justice: PR: CCJ 3014 or C.I. Examines criminal profiling undertaken by law enforcement and prosecution authorities which consists of gathering, reviewing and analyzing evidence pertaining to violent crimes. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 4641</td>
<td>Organized Crime: An examination of organized crime, including structures, history, and activities, and of issues surrounding the efforts to define and control it. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 4644</td>
<td>White Collar Crime: PR: CCJ 3014 and CCJ 3002. Classic definitions and statements on white collar crime concepts, concepts and criminal activities, types of fraud, investigations, environmental crime, and corporate crime. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 4651</td>
<td>Drugs and Crime: Focuses on the problems of drugs and drug control in contemporary society. Students will examine the problems of drugs in our society as well as specific strategies used by criminal justice agencies to prevent and control illicit drug use. Fall, Spring.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 4661</td>
<td>Terrorism: PR: CCJ 3014 and CJE 4014 or C.I. An examination of competing ideologies of a variety of social and political conflicts (both international and domestic) that give rise to terrorism and of the implications for the criminal justice system. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 4670</td>
<td>Women and Crime: This course covers women in criminal justice as offenders and prisoners, as well as crime victims and professionals working in the system. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 4671</td>
<td>Domestic Violence and the Justice System: PR: CCJ 3024. Study of the nature and causes of forms of domestic violence, pertaining to laws, prevention strategies, and justice system response. Occasional.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
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<tr>
<td>CCJ 4690</td>
<td>Sex Offenders and the Criminal Justice System: PR: CCJ 3024 or C.I. Provides students a better understanding of how the criminal justice system deals with sex offenders and their offenses. Fall, Spring.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 4701</td>
<td>Research Methods in Criminal Justice: Overview of the social science research methodology used in criminal justice, covers the major forms of research designs used by social science and evaluates their strengths and weaknesses. Fall, Spring.</td>
<td>3(3,0)</td>
<td>Fall, Spring</td>
</tr>
<tr>
<td>CCJ 4934</td>
<td>Emergent Criminal Justice Issues: PR: CCJ 3014, CCJ 3024 or C.I. Developing trends and issues in criminal justice facing administrators, practitioners, and researchers. May be repeated for credit. Occasional.</td>
<td>1-3(1,3)</td>
<td>Fall, Spring</td>
</tr>
</tbody>
</table>
CCJ 5015 HPA-CJ/LS 3(3,0)
The Nature of Crime: PR: Admission to Criminal Justice Master's Program or C.I. This course provides an overview of major dimensions of crime in the U.S., epidemiology of crime, costs of crime, and typologies of crime and criminals. Occasional.

CCJ 5040 HPA-CJ/LS 6(6,0)
International Perspectives on Law and Justice: PR: C.I. or graduate standing. Examination of the legal and criminal justice systems of other nations and territories through lecture, seminar, research and field visits. Occasional.

CCJ 5073 HPA-CJ/LS 3(3,0)
Data Management Systems for Crime Analysis: PR: graduate standing or C.I. This course is designed to provide the conceptual basis, understanding, and skills necessary for complex crime data manipulation. Fall.

CCJ 5105 HPA-CJ/LS 3(3,0)

CCJ 5406 HPA-CJ/LS 3(3,0)
Research and Technology Implementation: Pr: graduate standing or C.I. Discusses changing roles of social and physical sciences as related to the objectives and administration of public safety agencies. Occasional.

CCJ 5456 HPA-CJ/LS 3(3,0)
The Administration of Justice: PR: Admission to Criminal Justice Master's Program or C.I. This course provides an overview of the criminal justice system and a critical analysis of formal and informal processing of offenders by criminal justice agencies. Fall, Spring.

CCJ 5457 HPA-CJ/LS 3(3,0)
Justice and Safety System Manpower: PR: graduate standing or C.I. Essential processes to human resources in criminal justice and public safety agencies; structure and processes for acquisition, training, and maintenance of personnel. Occasional.

CCJ 5617 HPA-CJ/LS 3(3,0)

CCJ 5675 HPA-CJ/LS 3(3,0)
Human Rights & Criminal Justice: PR: Senior scholar or graduate standing or C.I. Provides in-depth analysis of the human rights movement and its potential impact upon criminal law as well as the juvenile and criminal justice systems. Occasional.

CCJ 5931 HPA-CJ/LS 3(3,0)
Contemporary Criminal Justice Strategies: PR: Graduate standing or C.I. Graduate level analysis of contemporary crime issues and the reactions of the criminal justice system to combat those crimes at both the national and international levels. May be used in the degree program a maximum of 3 times. Occasional.

CCJ 5934 HPA-CJ/LS 1(1,0)
Criminal Justice Investigative Process: PR: Graduate standing or C.I. Advanced seminar in the methods used in the field to investigate crimes. Focuses on the roles and responsibilities of agents as investigators. May be used in the degree program a maximum of 4 times. Occasional.

CDA 3103 ECS-CS 3(3,0)
Computer Organization: PR: COP 3223. Logic design, computer architecture, instruction set architecture. (MIPS, SPIM simulator), performance, data path, control unit, memory hierarchy, I/O interface. Fall, Spring.

CDA 4150C ECS-CS 4(3,1)
Computer Architecture: PR: COP 3402 and CDA 3103C. Basic processor design, hardened and microprogrammed control, ALU, memory organization, pipelining, I/O and computer arithmetic. Fall, Spring.

CDA 4150H ECS-CS 4(3,1)
Honors Computer Architecture: PR: Consent of Honors and COP 3402 and CDA 3103C. Basic processor design, hardened and microprogrammed control, ALU, memory organization, pipelining, I/O and computer arithmetic. With Honors level content. Occasional.

CDA 4506C ECS-CS 3(1,2)
Design and Implementation of Computer Communication Networks: PR: COP 3500C, MAD 2104 or COT 3100C. Data communication networking technologies (TCP/IP, Ethernet, Gigabit Ethernet, ATM, Frame Relay), products (routers, switches, adapters, cabling). Basic design and detailed configuration including hands-on exercises. Fall, Spring.

CDA 4527 ECS-CS 3(3,0)

CDA 5016 ECS-CS 3(3,0)
Advanced Computer Architecture I: PR: CDA 4510C. Instruction set architectures, processor implementation, memory hierarchy, pipelining, computer arithmetic, vector processing, and I/O. Fall, Spring.

CDA 5110 ECS-CS 3(3,0)

CDA 5215 ECS-CS 3(3,0)
Architecture and Design of VLSI: PR: CDA 4150C or equivalent. Overview of VLSI technology. Logical design of basic subsystems; integrated system design tools; design of a VLSI computer system. Occasional.

CDA 5501 ECS-CS 3(3,0)

CDA 5530 ECS-CS 3(3,0)

CDA 5532 ECS-CS 3(3,0)

CEG 4801C ECS-CEE 3(2,2)
Geotechnical Engineering Design: PR: CEG 011C. Project course on design of foundations and other soil structures using geotechnical design methodologies. Fall, Spring. M&S fee: $15.00

CEG 4812 ECS-CEE 1(1,0)
Historical Developments in Civil Engineering: Seminar covering historic developments in civil engineering. Occasional.

CEG 5015 ECS-CEE 3(3,0)
Geotechnical Engineering II: PR: CEG 011C. Continuation of CEG 011C with emphasis on shear strength and density factors for earth pressures, bearing capacity, and slope stability. Occasional.

CEG 5700 ECS-CEE 3(3,0)
Geo-Environmental Engineering: PR: CEG 011C. Geotechnical applications to environmental problems, groundwater flow, soil contamination and groundwater contamination, geotechnical and structural aspects of landfill design, control of contaminated sites. Occasional.

CEN 4020 ECS-CS 3(3,0)
Component-based Engineering Software: PR: EEL 4813C, EEL 4882. In-depth treatment of component-based software development including analysis design and implementation of correct and reusable software in different component levels. Occasional.

CEN 5016 ECS-CS 3(3,0)
Software Engineering: PR: COP 4331C. Application of formal software processes, engineering methods, and documentation standards to the development of large scale software systems. A team project is required. Spring.

CES 4100C ECS-CEE 4(3,3)
Structural Analysis I and Lab: PR: EGN 3331. Topics in structural mechanics, analysis of determinate and indeterminate structures by flexibility and stiffness methods computer and laboratory exercises on behavior of structures and materials. Fall.

CES 4101 ECS-CEE 3(3,0)
Matrix Methods for Structural Analysis: PR: CES 4100C or C.I. Introduction to matrix structural analysis. 2D and 3D structural analysis, special topics and modeling techniques, software tools for structural engineers for computer based applications. Occasional.

CES 4605 ECS-CEE 3(3,0)
Steel Structures: PR: CES 4100C. Design of structural steel members and buildings; emphasis on AISC-ASD building code; introduction to AISC-LRF building code; tension and compression members, beams, beam-columns, connections. Fall.

CES 4608C ECS-CEE 3(2,2)
Steel Design: PR: CES 4605. Project course on design of steel components, connections, and frame structures using AISC specifications. Spring. M&S fee: $15.00

CES 4702 ECS-CEE 3(3,0)
Reinforced Concrete Structures: PR: CES 4100C or C.I. Design of RC members using ACI code; beam flexure and shear; compression bending; bond and development; introduction to continuous frames. Spring.

CES 4709C ECS-CEE 3(2,2)
Concrete Design: PR: CES 4702. Project course on design of concrete structures using concrete and structural analysis methodologies. Fall. M&S fee: $15.00

CES 5144 ECS-CEE 3(3,0)
Matrix Methods for Structural Analysis: PR: CES 4100C or C.I. Implementation of the matrix methods for structural analysis that are commonly and currently used in practice and in research, special topics such as finite element formulations, special analysis procedures, and use of software packages. Occasional.
UCF Courses and Descriptions

CET 5325 ECS-CEE 3(3,0)
Bridge Engineering: PR: CET 4605 and CET 4702 or C.I. Bridge engineering fundamentals, design philosophies, analysis and design concepts for concrete and steel bridges. AASHTO specifications, Bridge rating, and introduction to Bridge health monitoring. Occasional.

CET 5606 ECS-CEE 3(3,0)
Advanced Structural Steel: PR: CET 4805 or C.I. Behavior and design of steel buildings; emphasis on AISC-LRF/D building code; complex connections, tension members, stability of compression members, laterally unsupported beams, frames, and beam columns. Occasional.

CET 5706 ECS-CEE 3(3,0)
Advanced Reinforced Concrete: PR: CET 4702 or C.I. Design of frames, two-way floor systems, shear walls, shear and torsion; compression field theory; inelastic analysis; wind and seismic design; introduction to prestressed concrete. Occasional.

CET 5821 ECS-CEE 3(3,0)

CET 2123C ECS-ENT 3(2,3)
Microprocessor Electronics I: PR: MAC 1105. Practical study of microprocessors. Includes machine language programming, assembly language, system design, and interfacing of minis, mainframes, and peripherals. Occasional. M&S fee: $5.00

CET 2364 ECS-ENT 3(3,0)
Systems Applications in C: PR: MAC 1105. Use of C language in control of system processes, DOS and BIOS interrupts, and interfacing with assembly language. May be repeated for credit. Fall, Spring.

CET 3010 ECS-ENT 3(3,0)
Introduction to Information Technology: PR: MAC 1105. An introduction to IT field, including binary representation, graphics, data compression, information theory, transmission and storage technology, and communications. Fall, Spring.

CET 3144C ECS-ENT 3(2,2)
Applied Microprocessor Technology: PR: DC Circuit Analysis and Digital microprocessor fundamentals, and high level programming language. Analysis and design of the components, architecture, and interfacing of a microcomputer. Specific reference to IBM compatible computers and peripherals. Troubleshooting and repair are emphasized in the laboratory. Occasional. M&S fee: $10.00

CET 3196C ECS-ENT 3(3,2)
Digital Systems: PR: DC Circuits and Digital Circuits I. Finite State Machines and Algorithmic State Machines, includes design, synthesis and implementation of a digital system using schematic capture and VHDL. Spring. M&S fee: $12.00

CET 3323C ECS-ENT 4(3,2)
Digital Technology: PR: MAC 1105 and C.I. Digital logic gates, flip-flop devices, Karnaugh Maps, combinational logic, arithmetic units, registers and sequential logic. Fall, Spring.

CET 3383 ECS-ENT 3(3,0)
Applied Systems Analysis I: PR: CET 2364 or equivalent. Study of system analysis, design, development and implementation cycle. Includes Object-Oriented Programming (OOP) to implement system programs. May be repeated for credit. Spring.

CET 3503 ECS-ENT 3(3,0)
Microcomputer Technology I: PR: High level programming language. Microcomputer assembly programming, including overview of architecture and operating system environment. Fall.

CET 3529 ECS-ENT 3(3,0)
Linux/Linux System Admin and Applications: PR: CET 2364 or equivalent. Installation, creation and maintenance of file systems, backups, and configuration. Fall, Spring.

CET 3752 ECS-ENT 3(3,0)
Intro to Telephony: PR: EET 3085C or equivalent or C.I. An introductory level course in telephony technology. The telephony environment, telemanagement, telephony connectivity and services of telephony. Fall.

CET 4134C ECS-ENT 2(2,4)
Microprocessor Electronics II: PR: Digital Circuits I and CET 2125C. The MC68000 Software architecture programming and hardware architecture are covered in detail. Assembly language programming interfacing and hardware characteristics as well as applications are covered. Occasional. M&S fee: $45.00

CET 4138C ECS-ENT 3(3,2)
Digital Programmable Devices: PR: CET 3196C or equivalent and C.I. Architecture and applications of various types of programmable logic devices. Design entry methods, e.g., HDL, schematic capture, etc. Lab exercises using PALs, PLDs, and FPGA. Occasional.

CET 4333 ECS-ENT 3(3,0)

CET 4334C ECS-ENT 3(2,2)

CET 4427 ECS-ENT 3(3,0)
Applied Database I: PR: CET 2364 or equivalent. Design and implementation of data base systems within the concept of central administration, structured data storage. Programming project. May be repeated for credit. Fall, Spring.

CET 4429 ECS-ENT 3(3,0)
Applied Database II: PR: CET 4427. Continuation of CET 4427. Study of hierarchical database system. Programming project is required. May be repeated for credit. Spring.

CET 4469C ECS-ENT 3(2,2)

CET 4483 ECS-ENT 3(3,0)
Intro to Local Area Network Technology: PR: EET 3085C or equivalent or C.I. An introductory level course in local area networks. Topics in data communications, computer networking, local area network technology, topologies, and protocols will be covered. May be repeated for credit. Spring.

CET 4505 ECS-ENT 3(3,0)
Applied Operating Systems I: PR: CET 2364. Modifying the operating systems to support new types of devices. Analysis of limitations and strengths of commercial mass storage operating systems in industry. O.S. tool box usage. May be repeated for credit. Fall.

CET 4523 ECS-ENT 3(3,0)
Applied Systems Analysis II: PR: CET 3383. Continuation of CET 3383, with emphasis on distributed processing which includes the interfacing of minis, mainframes, software, communications, and data base technology into a responsive information system. Occasional.

CET 4583 ECS-ENT 3(3,0)
Web Based Systems I: PR: CET 2364. Introduction to web systems with emphasis on server configuration, web standards, and portal design. Occasional.

CET 4584 ECS-ENT 3(3,0)
Web Based Systems II: PR: CET 4583. Advanced web design concentration on use of current technology (CGI, Java, XML, DHTML) to provide interactivity. Fall.

CET 4663 ECS-ENT 3(3,0)

CET 4668 ECS-ENT 3(3,0)

CET 4741L ECS-CS 3(0,3)
Computer Networking Laboratory: PR: C.I. Laboratory exercises to enhance the understanding of concepts/principles discussed in computer networking and data communication texts. Occasional.

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. Fall.

CET 4749 ECS-ENT 3(3,0)

CET 4882 ECS-ENT 3(3,0)

CET 4884 ECS-ENT 3(3,0)

CET 4885 ECS-ENT 3(3,0)

CET 4889 ECS-ENT 3(3,0)

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. Occasional.

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. Occasional.
**U CF Courses and Descriptions**

**CGS 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. Occasional.

**CGS 4300  ECS-CEE  3(3,0)**
Civil Engineering Systems: PR: EGN 3613, MAC 2313, STA 3022. Mathematical techniques commonly associated with operations research and economics which are applicable to the planning, design, and operation of civil engineering systems. Occasional.

**CGS 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. Occasional.

**CGS 4808C  ECS-CEE  3(2,2)**
Civil Engineering Capstone Design: PR: one of the following courses - TTE 4601C, CES 4606C, CW 4812C, ENV 4652C, CEG 4810C, or CES 4608C. An interdisciplinary capstone course requiring problem definition, data collection, analysis of alternatives, economic evaluation of alternatives, and oral and written presentation of final design. Occasional.

**CGS 5320C  ECS-CEE  3(2,2)**

**CGS 5504C  ECS-CEE  3(2,2)**
Civil Engineering Materials: PR: EGN 3365, EGN 3331, or C.I. Structure, properties, and applications of materials used in civil engineering including concrete, steel, asphalt, wood, soils, and composite materials. Occasional.

**CGS 5506C  ECS-CEE  3(2,2)**
Asphalt Concrete Mix Design: PR: CEG 611C. Properties of asphalt, aggregate and asphalt mixtures, Marshall mix design, Hveem mix design, pavement rehabilitation. Occasional.

**CGS 1060C  ECS-CS  3(2,2)**
Introduction to Computer Science: History, typical computer, number systems, control and data flow, peripheral components, memory devices, effect of computers on society, applications of computers. Not open to Computer Science Majors. Fall, Spring. M&S fee: $15.00

**CGS 1060H  ECS-CS  3(2,2)**
Honors Introduction to Computer Science: PR: Permission of Honors. History, number systems, control and data flow, peripheral components, memory devices, effects of computers on society, applications of computers. Not open to Computer Science Majors. Occasional. M&S fee: $15.00

**CGS 2100C  ECS-CS  3(2,1)**
Computer Fundamentals for Business: Uses of computers and software in business, including business applications, commercial packages, and the internet. Not open to Computer Science majors. Fall, Spring. M&S fee: $15.00

**CGS 2515  ECS-CS  3(3,0)**
Spreadsheet Concepts: PR: CGS 1060C. Advanced techniques of spreadsheets, charts, macros, objects, database features and data analysis tools. Occasional.

**CGS 2545C  ECS-CS  3(2,1)**

**CGS 2585C  ECS-CS  3(2,1)**

**CGS 3175  ECS-CS  3(3,0)**
Internet Applications: PR: CGS 1060C. HTML coding, using images, sound and animation, advanced text formatting, forms and CSS scripts, introduction to Javascript. Fall, Spring.

**CGS 3269  ECS-CS  3(3,0)**

**CGS 3285  ECS-CS  3(3,0)**

**CGS 3763  ECS-CS  3(3,0)**

**CGS 4144  ECS-CS  3(3,0)**

**CGS 5131  ECS-CS  3(3,0)**

**CGS 5132  ECS-CS  3(3,0)**

**CHI 1120  CAH-LANG  4(4,1)**
Elementary Chinese Language and Civilization I: Designed to initiate the student to the major language skills: listening, speaking, reading and writing. Fall.

**CHI 1120H  CAH-LANG  4(4,0)**
Honors Elementary Chinese Language and Civilization I: PR: Permission of Honors. Introduces the student to Chinese culture through the major language skills: Listening, speaking, reading and writing. Open only to students with no previous experience in the language. Honors level content. Occasional.

**CHI 1121  CAH-LANG  4(4,1)**
Elementary Chinese Language and Civilization II: PR: CHI 1120 or equivalent. Continuation of CHI 1120. Spring.

**CHI 1121H  CAH-LANG  4(4,0)**

**CHI 2200  CAH-LANG  3(3,0)**
Intermediate Chinese I: PR: CHI 1121 or equivalent or C.I. Development of Chinese language skills at the intermediate level. Fall, Spring.

**CHI 2201  CAH-LANG  3(3,0)**

**CHM 1020  COS-CHEM  3(3,0)**
Concepts in Chemistry: PR: High school Algebra. Concepts will be examined to provide insight into the significant role that chemistry plays in our culture. Intended as a general education course. Fall, Spring.

**CHM 1032  COS-CHEM  3(3,0)**
General Chemistry: PR: MAC 1105 or MGF 1106 or equivalent. An introductory study of the fundamental concepts of chemistry, primarily oriented toward Health Science majors. The "NC" grading policy applies to this course. Fall, Spring.

**CHM 1032L  COS-CHEM  1(0,3)**
General Chemistry Laboratory: PR or CR: CHM 1032. Preference will be given to students whose major requires this course. An introductory study of physical and chemical properties of elements and compounds. Fall, Spring. M&S fee: $45.00

**CHM 2040C  COS-CHEM  3(2,1)**
Chemistry Fundamentals IA: PR: A minimum score of 550 (SAT) or 24 (ACT) in the mathematics section. MAC 1105 recommended. Not open to students with credit in CHM 2045C. Elementary principles of modern chemistry, including units and measures, stoichiometry, energy, chemical calculations, structure and properties of matter, chemical bonding. This course is to be followed by CHM 2041C. The "NC" grading policy applies to this course. Fall.

**CHM 2041C  COS-CHEM  3(2,1)**
Chemistry Fundamentals IB: PR: CHM 2040C or its equivalent with a grade of C or better. Not open to students with credit in CHM 2045C. The second semester of CHM 2040C. The states of matter, reaction rates and equilibria, acids and bases. The "NC" grading policy applies to this course. Spring.

**CHM 2045C  COS-CHEM  4(3,1)**
Chemistry Fundamentals I: PR: A passing score in the Chemistry Placement Exam. Not open to students with credit in both CHM 2040C and CHM 2041C. Basic physical theory of chemical reactivity, atomic structure, chemical bonding, periodicity, stoichiometry, equilibrium, thermodynamics, and kinetics. The "NC" grading policy applies to this course. Fall, Spring. M&S fee: $25.00

**CHM 2045H  COS-CHEM  4(3,3)**
Honors Chemistry Fundamentals I: PR: High school chemistry and permission of Honors. Not open to students with credit in both CHM 2040C and CHM 2041C. Same as CHM 2045C with honors-level content. Fall, Spring. M&S fee: $25.00

**CHM 2046  COS-CHEM  3(3,0)**
Chemistry Fundamentals II: PR: "C" grade or better in CHM 2045C or CHM 2041C. Continuation of CHM 2045C or the CHM 2046 & CHM 2041C sequence. Fall, Spring.

**CHM 2046H  COS-CHEM  3(3,0)**
Honors Chemistry Fundamentals II: PR: CHM 2045H and permission of Honors. Same as CHM 2046 with honors-level content. Spring.

**CHM 2046L  COS-CHEM  1(0,3)**
Chemistry Fundamentals Laboratory: CR: CHM 2046. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry. Fall, Spring. M&S fee: $45.00

**CHM 2046L  COS-CHEM  1(0,3)**
Honors Chemistry Fundamentals Lab: PR: CHM 2045H and CR: CHM 2046L. Illustration of chemical principles and introduction to the techniques of inorganic and physical chemistry with honors-level content. Spring. M&S fee: $35.00
CHM 2205 COS-CHEM 5(5,0) Introduction to Organic and Biochemistry: PR: CHM 1032 or equivalent. An introduction to organic chemistry, stressing the chemistry of functional groups and an overview of the biochemistry of proteins, carbohydrates, lipids, and nucleic acids. Spring.


CHM 2211 COS-CHEM 3(3,0) Organic Chemistry II: PR: CHM 2210. Continuation of CHM 2210. Fall, Spring.

CHM 2211L COS-CHEM 2(0,6) Organic Laboratory Techniques I: PR: CHM 2210. An introduction to the laboratory techniques of organic chemistry, including the preparation, isolation, and analysis of organic compounds. Fall, Spring. M&S fee: $45.00

CHM 3120 COS-CHEM 3(3,0) Analytical Chemistry: PR: CHM 2046, CHM 2046L. Classical and instrumental analysis. Choice of preferred analytical methods and techniques is emphasized through applications involving both inorganic and organic systems. Fall, Spring. M&S fee: $25.00

CHM 3120L COS-CHEM 1(0,3) Analytical Chemistry Laboratory: PR: CHM 2046, CHM 2046L. Experimental exercise of quantitative methods of analysis using titrimetric, gravimetric, potentiometric and photometric methods of analysis including statistical treatment of experimental data. Occasional. M&S fee: $25.00

CHM 3121L COS-CHEM 2(0,6) Organic Laboratory Techniques II: PR: CHM 2211 and CHM 2211L. Open-end laboratory to develop synthesis techniques and structure elucidation skills. Fall, Spring. M&S fee: $45.00

CHM 3130 COS-CHEM 4(3,1) Physical Chemistry I: PR: CHM 2046, PHY 2049, and MAC 2312. Rigorous treatment of atomic and molecular structure, thermodynamics, kinetics, and chemical bonding. Fall.

CHM 3131 COS-CHEM 3(3,0) Physical Chemistry II: PR: CHM 3130. Continuation of CHM 3130. Spring.

CHM 3131L COS-CHEM 2(0,6) Physical Chemistry Laboratory: PR: CHM 3130 and CR: CHM 3131. Classical as well as modern instrumental techniques coupled with computer data processing to measure physical properties and determine atomic and molecular parameters. Spring. M&S fee: $41.00

CHM 3422 COS-CHEM 3(3,0) Advanced Analytical Laboratory Technique: PR: PHY 2049 and PHY 2049L. Physical chemistry applied to the study of biological and forensic science. Fall.

CHM 4130 COS-CHEM 4(3,1) Advanced Analytical Laboratory Technique: PR: CHM 2211, CHM 3120 (with a minimum grade of C or 2.0) and CR-CHM 3131 or PR-CHM 3422. Modern methods of analysis including electrochemistry, spectroscopy, and separation techniques. Spring.

CHM 4130L COS-CHEM 2(0,6) Advanced Analytical Chemistry Laboratory: PR: or CR: CHM 4130. This course focuses on the experimental exercise of meeting. Spectral methods of analysis. Successful students will develop practical skills performing experiments based on spectrophotometric and chromatographic methods of analysis. Statistical data treatment of experimental results will be also exercised. Spring. M&S fee: $25.00

CHM 4220 COS-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. Occasional.

CHM 4610 COS-CHEM 3(3,0) Inorganic Chemistry: CR: CHM 3411. A discussion of descriptive inorganic chemistry based upon the use of various bonding theories, thermodynamics, and kinetics. Spring.

CHM 4610L COS-CHEM 2(0,6) Inorganic Chemistry Laboratory: PR: CHM 4610. A study of physical and chemical properties and synthetic techniques in Inorganic Chemistry. Fall. M&S fee: $25.00

CHM 4914C COS-CHEM 1(1,1) Undergraduate Research Methods: PR: CHM 2211 or C.I. Selection of a research project, instruction in literature searching, seminar preparation and laboratory techniques. Fall, Spring.

CHM 4930 COS-CHEM 1(1,0) Undergraduate Chemistry Seminar: PR: CHM 4110 and CHM 4940. An introduction to current chemical interest will be presented by students at a regularly scheduled departmental seminar. Fall, Spring.

CHM 5225 COS-CHEM 3(3,0) Advanced Organic Chemistry: PR: CHM 2211, graduate status or senior standing, or C.I. Theoretical and physical organic concepts of organic systems from the perspective of modern structural theory, thermodynamics, and kinetics. Odd Fall.

CHM 5235 COS-CHEM 3(3,0) Analytical Molecular Spectroscopy: PR: CHM 3120 and CHM 2211, and graduate status or senior standing or C.I. Determination of chemical structure through interpretation of UV, IR, NMR and Mass Spectra. Occasional.

CHM 5305 COS-CHEM 3(3,0) Advanced Analytical Chemistry Laboratory: PR: CHM 2211, and graduate status or senior standing or C.I. The identification of organic compounds from the perspective of modern structural theory, thermodynamics, and kinetics. Odd Fall.

CHS 3501 COS-CHEM 3(3,0) Forensic Science: PR: graduate standing or C.I. An introduction to the chemistry of forensic science, with emphasis on problem solving and engineering applications. Atomic and molecular structure, states of matter, stoichiometry, equilibria, electrochemistry and thermodynamics. The NC grading policy applies to this course. Fall, Spring.

CHS 3501L COS-CHEM 2(0,6) Forensic Microscopy: PR: C grade or better in CHM 2046 & L or C.I. Intended for majors and non-majors to provide an overview of the specialty areas in Criminalistics (crime lab). Spring.

CHS 3505C COS-CHEM 4(2,6) Forensic Science: PR: graduate standing or C.I. A study of the polarized light microscope and its use in the identification and comparison of trace evidence. Fall. M&S fee: $45.00

CHS 3511C COS-CHEM 4(2,6) Forensic Trace Evidence: PR: C grade or better in CHS 3505C. An advanced study of the techniques used to identify and compare trace evidence. Spring. M&S fee: $45.00

CHS 3514C COS-CHEM 3(2,3) Bomb Scene Investigation: PR: Forensic Science major, CHS 3501 or C.I. Procedures for recognizing, collecting, preserving, and analyzing evidence from a post-blast bombing crime scene. May be repeated for credit. Occasional.

CHS 3530C COS-CHEM 4(2,6) Forensic Analysis of Controlled Substances: PR: C grade or better in CHS 3120, CHS 3410, CHS 2211, CHS 2211L and CHS 3505C. The study of the presumptive tests, isolation, and instrumental techniques used in the identification of controlled substances. Fall. M&S fee: $45.00

CHS 3533 COS-CHEM 2(2,0) Forensic Biochemistry I: PR: C grade or better in BSC 2010C, PCB 3063 L & PCB 3233 L. Concepts and procedures of forensic biochemistry, including the identification of bodily fluids and the use of genetic markers to establish identity. Fall. M&S fee: $30.00

CHS 3533L COS-CHEM 1(0,3) Forensic Biochemistry Laboratory: PR: C or better in BSC 2010C. PCB 3063 L & PCB 3233 L. Concepts and procedures of contemporary forensic biochemistry, including the identification of bodily fluids and the use of genetic markers to establish identity. Fall. M&S fee: $30.00

CHS 3540C COS-CHEM 2(1,3) Fire and Debris Analysis I: PR: CHM 3120 and C.I. A lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in fire related evidence. Occasional.

CHS 3595 COS-CHEM 3(3,0) Forensic Science in the Courtroom: PR: CHS 3501. The special needs of the forensic scientist in preparing for and participating in courtroom proceedings. Spring.

CHS 3949 COS-CHEM 0(0,8) Cooperative Education in Chemistry: PR: Departmental permission required before registering. Cooperative education experience in chemistry. Graded S/U. May be repeated for credit. Occasional.

CHS 4200 COS-CHEM 3(3,0) Concepts in Industrial Chemistry: PR: CHM 3410. An introduction to industrial practices, emphasizing the application of chemical principles in the development of a commercial process or product. Occasional.

CHS 4506C COS-CHEM 3(2,3) Forensic Investigation Techniques: PR: a grade of C or better in CHS 3511C. Modern technology applied to forensic investigation. Occasional.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>CHS 4515C</td>
<td>COS-CHEM 2(6)</td>
<td>4</td>
<td>Forensic Crime Scene Investigation: PR: Grade of C or better in CHM 3120, CHS 3511, CHS 3530C, CHS 3533C and CHS 4503C. Procedures for the investigation of arson, explosives, and chemical and biological evidence (C.I.). Occasional.</td>
</tr>
<tr>
<td>CHS 4532</td>
<td>COS-CHEM 3(0)</td>
<td>3</td>
<td>Interpretation of DNA Evidence: PR: Grade of C or better in CHM 3120, CHS 3533C, and C.I. An advanced lecture/laboratory course covering the procedures for recovering and identifying flammable liquids in real fire related evidence. Occasional.</td>
</tr>
<tr>
<td>CHS 4537</td>
<td>COS-CHEM 2(2.0)</td>
<td>2</td>
<td>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. Odd Fall.</td>
</tr>
<tr>
<td>CHS 4541C</td>
<td>COS-CHEM 2(1.3)</td>
<td>2</td>
<td>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. Occasional.</td>
</tr>
<tr>
<td>CHS 4591</td>
<td>COS-CHEM 4(0.40)</td>
<td>4</td>
<td>Forensic Science Internship: PR: Senior standing, within 8 hrs. of completion of degree requirements, and 2.5 overall GPA. Credit for full-time work (15 weeks) 600 hours for a professional forensic laboratory. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>CHS 5502</td>
<td>COS-CHEM 3(0.0)</td>
<td>3</td>
<td>Principles of Forensic Science: PR: Admission to Forensic Science M.S. program or C.I. Principles of forensic science crime scene investigation, concepts in physical and biological evidence, evidence collection and transport, crime scene preservation, and interpretation of evidence. Occasional.</td>
</tr>
<tr>
<td>CHS 5503</td>
<td>COS-CHEM 3(0.0)</td>
<td>3</td>
<td>Topics in Forensic Science: PR: Graduate status or C.J. Will include the history of Forensic Science and current issues such as Digital Evidence. Occasional.</td>
</tr>
<tr>
<td>CHS 5518</td>
<td>COS-CHEM 3(0.0)</td>
<td>3</td>
<td>The Forensic Collection and Examination of Digital Evidence: PR: Adv topics in Forensic Science, graduate status, or C.J. This course will cover the nature of Digital Evidence collection and examination under the constraints of Law and courtroom procedures. Occasional.</td>
</tr>
<tr>
<td>CHS 5596</td>
<td>COS-CHEM 3(0.0)</td>
<td>3</td>
<td>The Forensic Expert in the Courtroom: PR: CHS 3533C, CHS 3555, CHS 3568, or C.I. A study of the uses of technically and scientifically trained expert witnesses at trial. Spring.</td>
</tr>
<tr>
<td>CJS 4531</td>
<td>ECS-CS 3(0.0)</td>
<td>3</td>
<td>Secure Operating Systems and Administration: PR: COP 4600 or EEL 4882 or CET 4505. Understanding of secure operating systems requirements, design principles and theories, protection methods, access control, authentication, vulnerability, analysis and case studies. Occasional.</td>
</tr>
<tr>
<td>CIS 4363</td>
<td>ECS-CS 3(0.0)</td>
<td>3</td>
<td>Network Security and Privacy: PR: CDA 4505C or equivalent, CIS 3360, CIS 3362, and COP 3503C. Fundamentals of network security, protocols, secure applications, network intrusion detection, security policy, firewalls, and privacy issues. Occasional.</td>
</tr>
<tr>
<td>CIS 4615</td>
<td>ECS-CS 3(0.0)</td>
<td>3</td>
<td>Secure Software Development and Assurance: PR: CDA 4505C or equivalent, COP 4531C, CIS 3360, and CIS 3362. Thread modeling, secure code life-cycle, Buffer overflows, race conditions and format string problems, Inputs and clients, File system, Cryptography applications, UMLS, Java security and Reverse engineering. Occasional.</td>
</tr>
<tr>
<td>CJC 3010</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>The Corrections and Penology: PR: CCJ 3024 or C.I. Theories, structures, and methods of institutional and non-institutional processing and treatment of convicted criminals and juvenile offenders. Fall, Spring.</td>
</tr>
<tr>
<td>CJC 3134</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Prisons and jails: PR: CCJ 3010. An overview and analysis of issues in institutional corrections, focussing on prison and jail history, inmates, guards, administration and management, and programing. Occasional.</td>
</tr>
<tr>
<td>CJC 3164</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Community-Based Corrections: PR: CCJ 3024 and CJC 3010 or C.I. An overview and analysis of correctional programs and treatment programs in the community. Occasional.</td>
</tr>
<tr>
<td>CJC 4410</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Correctional Interventions in Criminal Justice: PR: CCJ 3014. Intervention techniques used with juvenile and adult offenders in institutional and community-based settings and study of the theoretical foundations. Occasional.</td>
</tr>
<tr>
<td>CJE 3001</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Careers in Criminal Justice: PR: PR: CCJ 3024 or C.I. Introductory course with focus on components of the Criminal Justice Process (law enforcement, courts, and corrections) and employment opportunities within the criminal justice system. Fall, Spring.</td>
</tr>
<tr>
<td>CJE 3444</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Crime Prevention: PR: CCJ 3024 or C.I. An overview and analysis of crime prevention strategies used in the private and public sectors. Fall, Spring.</td>
</tr>
<tr>
<td>CJE 3662</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>CJ Information Technology and Data Management: PR: CCJ 3024. Designed to familiarize with concepts of database, applications, and usability to crime analysis. Occasional.</td>
</tr>
<tr>
<td>CJE 4014</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Police and Society: PR: CCJ 3024 or C.I. An examination of the varied roles of police in contemporary society. Emphasis is on dynamics of police/citizen interactions and the police subculture. Fall, Spring.</td>
</tr>
<tr>
<td>CJE 4174</td>
<td>HPA-CJ/L 4(4)</td>
<td>4</td>
<td>Comparative Justice Systems: PR: CCJ 3024 and CJE 3510 or C.I. A survey of contemporary foreign criminal justice and differences emerging from various political, cultural and legal systems. Occasional.</td>
</tr>
<tr>
<td>CJE 4410</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Community Policing: PR: CCJ 3014, CJE 4014. The viability of community policing. The theoretical basis for community interventions are related to the daily operations required by community policing. Occasional.</td>
</tr>
<tr>
<td>CJE 4630</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Serial Murder and Criminal Justice: PR: CCJ 3014 or C.I. Study of extent, types, and explanations of serial murder, and responses of the general public, law enforcement, and prosecution. Occasional.</td>
</tr>
<tr>
<td>CJE 4654</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Crime and Place:PR: CCJ 3024. Provides an understanding of how physical environmental features - the natural and built environment - influences crime events. Occasional.</td>
</tr>
<tr>
<td>CJE 4663</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Crime Analysis I: PR: CJE 4654. Provides the essential data analysis skills necessary to effectively analyze crime, understand crime data structures and the problems inherent in crime data. Occasional.</td>
</tr>
<tr>
<td>CJE 5688</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Cyber Crime and Criminal Justice: PR: CCJ 5015. Deals with the problem of cyber crime and the criminal use of the Internet. Includes investigation, enforcement and legal issues. Occasional.</td>
</tr>
<tr>
<td>CJE 4564</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Delinquency Control: PR: CCJ 3024 and CJE 3510 or C.I. Examination of programs and institutions including juvenile court process, intake services, and remedial procedures and practices. Fall, Spring.</td>
</tr>
<tr>
<td>CJE 5110</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Criminal Law in Action: PR: CJE 3510. Legal foundations of law and criminal responsibility, defenses, and parties to crime. Fall, Spring.</td>
</tr>
<tr>
<td>CJE 3510</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Prosecution and Prosecution: PR: CCJ 3024 or PLA 3013 or C.I. Examination of structures and goals of officers and prosecution and criminal trial courts, and of the processes of charging, adjudicating, and sentencing defendants. Fall, Spring.</td>
</tr>
<tr>
<td>CJE 4010</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Legal Aspects of Policing: PR: CJE 4014. The legal dimensions of various police decision-making stages; including stops and frisks; arrests; searches and seizures; interrogations; and, interrogations; Occasional.</td>
</tr>
<tr>
<td>CJE 4410</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Legal Aspects of the Criminal Court Process: PR: CJE 3510. The legal dimension of various criminal court decision making stages, including bail; charging; preliminary hearing; grand jury; pretrial hearings plea hearings; trial; and, sentencing. Occasional.</td>
</tr>
<tr>
<td>CJE 4514</td>
<td>HPA-CJ/L 3(3.0)</td>
<td>3</td>
<td>Criminal Sentencing: PR: CCJ 3024, CJE 3510. Examines the myriad theoretical, empirical and operational issues involved in criminal sentencing policy in American society. Occasional.</td>
</tr>
</tbody>
</table>
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Department</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLP 3302</td>
<td>COS-PSYCH</td>
<td>3(3,0)</td>
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<tr>
<td>CLP 3413</td>
<td>COS-PSYCH</td>
<td>3(3,0)</td>
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<tr>
<td>CLP 4134</td>
<td>COS-PSYCH</td>
<td>3(3,0)</td>
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<tr>
<td>CLP 4390</td>
<td>COS-PSYCH</td>
<td>3(3,0)</td>
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<tr>
<td>CLP 4400C</td>
<td>COS-PSYCH</td>
<td>3(2,2)</td>
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<tr>
<td>CLP 5166</td>
<td>COS-PSYCH</td>
<td>3(3,0)</td>
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<tr>
<td>CLP 3310</td>
<td>COS-PSYCH</td>
<td>3(1,2)</td>
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<tr>
<td>CLP 3103</td>
<td>COS-PSYCH</td>
<td>3(3,0)</td>
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<tr>
<td>CLP 3110H</td>
<td>COS-PSYCH</td>
<td>3(3,0)</td>
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<tr>
<td>CLP 3012</td>
<td>COS-PSYCH</td>
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<td>CLP 3311</td>
<td>COS-PSYCH</td>
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<td>CLP 3312</td>
<td>COS-PSYCH</td>
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<td>CLP 3332</td>
<td>COS-PSYCH</td>
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<td>CLP 3414</td>
<td>COS-PSYCH</td>
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<td>CLP 3120</td>
<td>COS-PSYCH</td>
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<td>CLP 3330</td>
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<tr>
<td>CLP 3463</td>
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<tr>
<td>CLP 5004</td>
<td>COS-PSYCH</td>
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<td>CLP 3143</td>
<td>COS-PSYCH</td>
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<tr>
<td>CLP 2000</td>
<td>ECS-CS</td>
<td>3(3,0)</td>
</tr>
<tr>
<td>CLP 2800</td>
<td>ECS-CS</td>
<td>4(3,1)</td>
</tr>
</tbody>
</table>

**CLP 3302: Clinical Psychology**
- **Prerequisites:** PPE 3003 and CLP 3143.
- This course covers the overview of approaches to psychopathology, methods of clinical assessment, and various approaches to individual and group counseling.

**CLP 3413: Contemporary Behavior Therapy**
- **Prerequisites:** 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 4134: Interpersonal Effectiveness and Group Psychotherapy**
- **Prerequisites:** PSY 2012.
- Psychological aspects of interpersonal relationships, the rationale for group therapy, and strategies for enhancing interpersonal skills and personal growth.

**CLP 4390: Forensic Psychology**
- **Prerequisites:** PSY 2012 and SOP 3751.
- Clinical practice of psychology within the legal system, including forensic evaluation of competency/inanity, treatment, and criminal profiling.

**CLP 4400C: Psychology of Physical Disability**
- **Prerequisites:** PSY 2012.
- Psychological aspects of physical disability and rehabilitation. Psychological adjustment, body-image relationships, family and societal dynamics relative to therapeutic intervention.

**CLP 5166: Advanced Abnormal Psychology**
- **Prerequisites:** Graduate status or senior standing or C.I. Consideration of classification, causation, and treatment of emotional disorders. Review of theories and research in the field. Lecture/Laboratory. Occasional.

**CLP 5167: Mental Health and Aging**
- **Prerequisites:** Graduate status or senior standing or C.I. Introduction to assessment and intervention issues, practice and research related to problems with cognitive and emotional functioning among older adults. May be repeated for credit. Occasional.

**CMC 4240: COS-R/TV**
- **Prerequisites:** RTV 3200, RTV 3260C (RTV 3260C may be taken concurrently).
- Preparation of non-broadcast corporate/institutional video programs including planning, budgeting, production, and evaluation. Occasional.

**COM 1000: COS-COMM**
- **Prerequisites:** Graduate status or senior standing or C.I. Consideration of classification, causation, and treatment of emotional disorders. Review of theories and research in the field. Lecture/Laboratory. Occasional.

**COM 1000: Communication**
- **Prerequisites:** Basic factors affecting human interaction through communication, theories and models of communication.

**COM 2347C: Sports Speaking and Interviewing**
- **Prerequisites:** SPC 1600.
- Practicum to prepare students to speak in public forums and to participate in interviews with the mass media. Graded SU. Occasional.

**COM 3011C: COS-COMM**
- **Prerequisites:** CR: COM 3311. Semantics; symbols and meaning and their relationship with human behavior.

**COM 3013: COS-COMM**
- **Prerequisites:** SPC 1600 or C.I. Theoretical and practical training in effective presentational speaking for business and professionals.

**COM 3110: COS-COMM**
- **Prerequisites:** Majors only, SPC 1600 or C.I. and consent of Honors. Theoretical and practical training in effective presentational speaking for business and professionals. With Honors consent. Occasional.

**COM 3013: Communication and the Family**
- **Prerequisites:** SPC 1600. The ways members of a family unit interact verbally and nonverbally to influence one another. Even Fall.

**COM 3110: COS-COMM**
- **Prerequisites:** Majors only, SPC 1600 or C.I. Theoretical and practical training in effective presentational speaking for business and professionals. With Honors consent. Occasional.

**COM 3330: COS-COMM**
- **Prerequisites:** CGS 1060C.
- Communicating through computers. The foundations and applications of online and interactive multimedia applications, including trends and limitations.

**COM 3332: COS-COMM**
- **Prerequisites:** SPC 1600. How new technologies influence (and are influenced by) communication in a variety of contexts, including organizational and interpersonal settings.

**COM 3414: COS-COMM**
- **Prerequisites:** Junior Standing. A study of communication functions and problems within the contexts of hierarchies.

**COM 4014: COS-COMM**
- **Prerequisites:** SPC 1600 and Junior Standing. A study of how communication exchanges, both verbal and nonverbal, differ between men and women, and how these differences are manifested. Occasional.

**COM 4461: COS-COMM**
- **Prerequisites:** Senior Standing. Study of variables affecting messages and participants in intercultural contexts. Fall, Even Spring.

**COM 4462: COS-COMM**
- **Prerequisites:** COS 3311. Motivation theories that directly affect the process of human communication.

**COM 2200: ECS-CS**
- **Prerequisites:** College algebra and trigonometry or equivalent. Problem definitions, algorithms, flow charts, digital computer programming using a higher level language (FORTRAN). Not open to Computer Science Majors. Occasional.

**COM 2500C: ECS-CS**
- **Prerequisites:** Senior Standing. Study of various programming languages, systems, and technologies. Not open to Computer Science Majors. Occasional.
UCF Courses and Descriptions

CPO 3132 COS-POLS 3(3,0)

CPO 3403 COS-POLS 3(3,0)
Politics of the Middle East: PR: POS 2041 or C.I. An examination of the dynamics of Middle East politics, including both regional and international dimensions. Even Fall, Spring.

CPO 3403H COS-POLS 3(3,0)
Honors Politics of the Middle East: PR: Permission of Honors. An examination of the dynamics of Middle East politics, including both regional and international dimensions. Honors level content. Occasional.

CPO 3614 COS-POLS 3(3,0)

CPO 4047 COS-POLS 3(3,0)
Politics of the NAFTA Region: PR: POS 2041 or C.I. Contemporary politics of the NAFTA region, analyzing important political and socio-economic issues. Occasional.

CPO 4062 COS-POLS 3(3,0)

CPO 4074 COS-POLS 3(3,0)
Political Economy: PR: Junior standing or C.I. Interrelationship of political and economic phenomena of both advanced industrial societies and less developed countries. Even Fall.

CPO 4101 COS-POLS 3(3,0)
Politics of the European Union: PR: POS 2041 or C.I. Evolution of the European Union, theories of the EU and EU institutions and policies from a comparative perspective. Spring.

CPO 4123 COS-POLS 3(3,0)

CPO 4303 COS-POLS 3(3,0)
Comparative Latin American Politics: Comparative analysis of politics, society and culture in Latin America and selected countries of the region. Even Fall.

CPO 4445 COS-POLS 3(3,0)
Comparative Political Parties: PR: POS 2041, and Junior standing or C.I. Theories of the formation, structure, organization, and behavior of political parties and political party systems in comparative perspective. Even Fall.

CPO 4553 COS-POLS 3(3,0)
Politics of Japan: PR: POS 2041 or CPO 3103 or C.I. Evolution of the Japanese political system and how domestic and international politics influence the functioning of the Japanese economy. Fall.

CPO 4643 COS-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. Occasional.

CPO 4710 COS-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. Occasional.

CPO 4745 COS-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. Occasional.

CPO 4764 COS-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. Occasional.

CPO 5334 COS-POLS 3(3,0)
Contemporary Politics of the Mayan Region: PR: Graduate status or senior standing or C.I. Analysis of issues affecting all peoples living in the contemporary Mayan region of southern Mexico, Belize, Guatemala, and El Salvador. Occasional.

CRW 2100 CAH-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. Occasional.

CRW 2300 CAH-ENG 3(3,0)

CRW 3010H CAH-ENG 3(3,0)
Honors Creative Writing: PR: Honors GEP completion and permission of Honors. Theory and techniques of literary genres with honors level content; practice and critique of original writing by peers and critical reading of established authors. Occasional.

CRW 3011 CAH-ENG 3(3,0)
Creative Writing for Non-Majors: PR: ENC 1102. The techniques of literary genres; the practice and critique of original work by peers; critical reading of established authors. Designed for non-majors. Not open to students with credit in CRW 3013. Fall, Spring.

CRW 3013 CAH-ENG 3(3,0)
Creative Writing for English Majors: PR: English or English Education major, Junior standing, or C.I. and C (2.0) or better required in ENC 1102. Not open to students with credit in CRW 3011. Fall, Spring.

CRW 3120 CAH-ENG 3(3,0)
Fiction Writing Workshop: PR: Junior standing, and C (2.0) or better required in ENC 1102 and (CRW 2100 or CRW 3013). An intermediate level fiction writing workshop for English majors; group analysis and criticism; close reading of contemporary fiction and fiction theory. Fall, Spring.

CRW 3211 CAH-ENG 3(3,0)
Creative Nonfiction Writing: PR: English or English Ed major or C.I., and C (2.0) or better required in ENC 1102 and CRW 2300 or CRW 3013. Writers present original nonfiction writing for class response and individual conferences. Close reading of key works of creative nonfiction with discussion of definitions of the genre. Fall, Spring.

CRW 3310 CAH-ENG 3(3,0)
Poetry Writing Workshop: PR: Grade of C (2.0) or better required in ENC 1102 and CRW 3310 or CRW 3311. An intermediate level poetry workshop for English majors. Group analysis and criticism; close reading of contemporary poetry and poetic theory. Fall, Spring.

CRW 3311 CAH-ENG 3(3,0)
Structure of Verse: PR: Grade of C (2.0) or better required in ENC 1102. Intensive study of the structural characteristics of English, poetry, metrical systems, rhyme, scansion, and poetic rhetorical devices. Occasional.

CRW 3540 CAH-ENG 3(3,0)
Literary Magazines: PR: Grade of C (2.0) or better required in CRW 3013. Examination of fiction and poetry trends in current literary magazines, identifying editorial policies in publication of contemporary literature. Occasional.

CRW 3610 CAH-ENG 3(3,0)
Writing Scripts: PR: Grade of C (2.0) or better required in CRW 3013 or C.I. Theory and practice of writing scripts for film and TV. Fall, Spring.

CRW 4014 CAH-ENG 3(3,0)

CRW 4114 CAH-ENG 3(3,0)
History of Prose Style: PR: Grade of C (2.0) or better required in ENC 1102. A review of English prose style from 1616 to 1960. Occasional.

CRW 4122 CAH-ENG 3(3,0)
Advanced Fiction Writing Workshop: PR: Grade of C (2.0) or better required in CRW 3012. Intensive writing practice in fiction. Peer critique and group discussion of original manuscripts. May be used in the degree program a maximum of 2 times. Fall, Spring.

CRW 4123 CAH-ENG 3(3,0)

CRW 4224 CAH-ENG 3(3,0)
Advanced Nonfiction Workshop: PR: Grade of C (2.0) or better required in CRW 3013 and CRW 3211, (or equivalent and permission based on submission of manuscript). Advanced creative nonfiction, through intensive reading, writing, and workshop. The genre draws upon memory, observation, and techniques of fiction, poetry, and journalism. May be repeated for credit. Fall, Spring.

CRW 4320 CAH-ENG 3(3,0)
Advanced Poetry Writing Workshop: PR: Grade of C (2.0) or better required in CRW 3013 or CRW 3310, or CRW 2300. Intensive writing practice in poetry. Peer critique and group discussion of original manuscripts. May be used in the degree program a maximum of 2 times. Fall, Spring.

CRW 4516 CAH-ENG 3(3,0)

CRW 4804 CAH-ENG 3(3,0)
Creative Writing in the Community: PR: Junior standing and CRW 3130 or CRW 3210 or CRW 3211. Teaching creative writing to community groups through service-learning. Occasional.

CRW 5020 CAH-ENG 3(3,0)
Graduate Writing Workshop: PR: Admission to Creative Writing MFA and C.I. Students writing their own work, receiving detailed analysis of its strengths and weaknesses from their fellow writers and from the teacher. May be used in the degree program a maximum of 4 times. Fall, Odd Spring.

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CRW 5130 CAH-ENG 3(3,0)
Form and Theory in Creative Writing: PR: Admission to Creative Writing MFA or C.I. Formal and theoretical study of creative writing of given genre (poetry, short fiction, etc.). May be repeated for credit only when course content is different. Occasional.

CRW 5948C CAH-ENG 3(2,1)
Creative Writing Service Learning: PR: Admission to Creative Writing MFA or C.I. On-site experience leading and sharing creative writing in community settings. May be used in the degree program a maximum of 3 times. Occasional.

CWR 3201 ECS-CEE 3(3,0)

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. Fall, Spring. M&S fee: $15.00.

CWR 4203C ECS-CEE 3(2,2)
Hydraulics: PR: CWR 3201. Continuation of CWR 3201 with emphasis on piping networks, pumps, and hydraulic systems. Laboratories with civil and environmental engineering applications. Fall, Spring. M&S fee: $20.00.

CWR 4812C CAH-THEA 3(3,0)
Groundwater Hydrology: PR: CWR 4203C or equivalent. Theories of groundwater movement, geological factors, analysis and design techniques, etc. Emphasis on practical considerations. Occasional.

CWR 5125 ECS-CEE 3(3,0)

CWR 5515 ECS-CEE 3(3,0)
Numerical Methods in Civil & Environmental Engineering: PR: CWR 4101C, CWR 4203C. This course will present intermediate to advanced numerical methods theory and include code development and error assessment, while targeting civil and environmental engineering applications. Occasional.

CWR 5545 ECS-CEE 3(3,0)

DAA 2201C CAH-THEA 2(2,1)
Ballet I: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2200C. Intermediate classical ballet technique, including principles, theory, and practice technique. Spring.

DAA 2200C CAH-THEA 2(2,1)
Ballet I: PR: Theatre major, Dance minor, or department consent. Fundamentals of classical ballet: includes practical dance work as well as dance history lectures. Fall.

DAA 2201C CAH-THEA 2(2,1)
Ballet II: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2200C. Intermediate classical ballet technique, including principles, theory, and practice technique. Spring.

DAA 2300 ED-TLP 2(2,0)
Ballroom Dance: Instruction in selected ballroom dances (foxtrot, waltz, rumba, swing, samba, cha cha, tango, quick-step) focusing on dance and fitness aspects of ballroom dancing. Graded SU. May be repeated for credit. Fall, Spring.

DAA 2351 ED-TLP 2(2,0)
Salsa & Latin Dance: Instruction in salsa and selected other Latin dances (merengue, bachata, cha cha) focusing on Latin dance and fitness aspects of ballroom dancing. Graded SU. May be repeated for credit. Fall, Spring.

DAA 2393C CAH-THEA 2(2,1)
World Dance: PR: Theatre major, Dance minor, or department consent. Theory and applied technique of world dance. Semester focus will be devoted to one form, such as African dance, Flamenco, Irish dance, Indian dance, or other. May be repeated for credit. Occasional.

DAA 2520C CAH-THEA 2(2,1)
Tap Dance I: PR: Theatre major, Dance minor, or department consent. Form, style, and technique in the basic fundamental movements of tap dance. Fall.

DAA 2521C CAH-THEA 2(2,1)
Tap Dance II: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2520C. Intermediate exploration of form, style, and technique of tap dance. Spring.

DAA 2540 CAH-THEA 2(2,2)
Dance Technique I: PR: or CR: THEA 2001 or THEA 2010 or department consent. The study and application of fundamental dance techniques as they relate to musical theatre dance styles. Occasional.

DAA 2570C CAH-THEA 2(2,1)
Jazz Dance I: PR: DAA 2200C, and Theatre major, or Dance minor, or department consent. Basic movements of American Jazz dance, including practical class work and Jazz dance history. Fall, Spring.

DAA 2571C CAH-THEA 2(2,1)
Jazz Dance II: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2570C. Intermediate Jazz dance using theory and practice in jazz technique. Spring.

DAA 2640 CAH-THEA 2(3,2)
Theatre Dance Choreography and Performance: PR: By audition. Students will create and present a piece choreographed and performed by other dancers in concert. May be repeated for credit. Occasional.

DAA 3108C CAH-THEA 2(2,1)
Modern Dance I: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2101C. Advanced exploration of form, style, and technique in creative movement. May be repeated for credit. Spring.

DAA 3208C CAH-THEA 2(2,1)
Modern Dance II: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2101C. Advanced classical ballet technique, including principles, theory, and practice technique. May be repeated for credit. Fall.

DAA 3524C CAH-THEA 2(2,1)
Tap Dance II: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2521C. Advanced exploration of form, style, and technique of tap dance. May be repeated for credit. Fall.

DAA 3612 CAH-THEA 3(3,0)

DAA 3645 CAH-THEA 2(0,VAR)
Choreography Practicum: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2200C. Student practice in choreographing a concert dance work for public performance. May be used in the degree program a maximum of 5 times. Spring.

DAA 3684 CAH-THEA 1(1,0)
Dance Performance: PR: Theatre major, Dance minor, or department consent, and C (2.0) or better required in DAA 2200C. Student performance in a concert dance work. Students must be registered in a dance technique class. May be repeated for credit. Spring. M&S fee: $15.00.

DAE 3370 ED-TLP 3(1,2)
Dance and Rhythms: The development of skill proficiency in a topic or a series of topics in rhythmics and dance techniques, and fundamental movement patterns for grades K-12. Occasional.

DAN 3134 CAH-THEA 3(3,0)
Dance History I: PR: DAA 2200C or DAA 2520C or DAA 2570C or DAA 2393C, and Theatre major, Dance minor, or department consent. The roots, trends, and styles of dance from prehistory through the seventeenth century. Fall.

DEP 2004 COS-PSYCH 3(3,0)

DEP 2004H COS-PSYCH 3(3,0)
Honors Developmental Psychology: PR: PSY 2012 and consent of Honors. Genetic, psychological, maturational, and social factors on behavior throughout the life cycle. With Honors consent. Fall.

DEP 3202 COS-PSYCH 3(3,0)

DEP 3464 COS-PSYCH 3(3,0)
Psychology of Aging: PR: PSY 2012. An examination of basic psychological processes related to the aging process, with emphasis on the applied implications of changes in perceptual-motor, social emotional and cognitive-intellectual functioning. Occasional.

DEP 5057 COS-PSYCH 3(3,0)
Developmental Psychology: PR: Graduate status or senior standing or C.I. Psychological aspects of development including intellectual, social, and personality factors. Spring.

DIG 2000 CAH-DIG 3(3,0)
Introduction to Digital Media: CR: ENC 1101. The principles, development and prospects for Digital Media, with a focus on the Internet. Students learn to build Web pages as their principal expressive medium in the course. Extensive reading, Internet and library research, several short papers and a team project are required. This course serves as the gateway for the Digital Media program. Occasional.

DIG 3001 CAH-DIG 3(3,0)
Digital Media Principles: PR: MAC 1105 or MGF 1106. Survey of principles and methods employed in multimedia production, including an examination of content creation tools. Focus on web page construction. Fall, Spring.
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DIG 3035 CAH-DIG 1(1,0)
Digital Media in the Workplace: PR: ENC 1102. Workplace skill preparation for Digital Media Practicum. Fosters lifelong learning strategies and Digital media development. May be used in the degree program a maximum of 4 times. Fall, Spring.

DIG 3134C CAH-DIG 3(3,0)
Internet Software Design: PR: DIG 3001 and COP 2500C with a minimum grade of "B" (3.0) in DIG 3001. Fundamentals of software design in Internet environments. Introduction to discrete mathematics, programming/design schema, and computational structures. Fall, Spring.

DIG 3135C CAH-DIG 2(2,1)

DIG 3153 CAH-DIG 3(3,0)
Writing for Digital Media: PR: Minimum grade of "B" (3.0) in DIG 3001. Methodologies, fundamentals, and history of written communications for the digital age. Application of methods and fundamentals in the following areas: language theory, design, digital and content process. Fall, Spring.

DIG 3253 CAH-DIG 3(3,0)
Digital Media Audio: PR: Minimum grade of "B" (3.0) in DIG 3001. Audio production processes for multimedia and new media production, including examination and use of audio and MIDI sequencing software. Fall, Spring.

DIG 3286C CAH-DIG 1(1,2)
Assembling Digital Media: PR: Minimum grade of "B" (3.0) in DIG 3001. Audio production processes for multimedia and new media production, including examination and use of audio and MIDI sequencing software. Fall, Spring.

DIG 3355 CAH-DIG 3(3,0)
Artificial Environments and Effects: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Design, manipulation to convey story, thought, and concept in visual medium. New imagery in motion such as non-character entities, music videos, and scientific visualization. Odd Fall.

DIG 3362 CAH-DIG 3(3,0)
Artificial Characters: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Processes, techniques for design and manipulation of artificial characters to convey story, thought, and concept in visual medium. Odd Fall.

DIG 3430 CAH-DIG 3(3,0)
Visual Storytelling and Visual Development: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Processes and techniques to transform story concepts into a producible visual experience. Odd Fall.

DIG 3450C CAH-DIG 3(3,0)
Interactive Performance I: PR: Admission by audition only. Digital Media, Theatre majors, or CI. Techniques of interactive acting, with emphasis on interpersonal awareness and audience facilitation. Fall, Spring.

DIG 3480C CAH-DIG 4(2,2)
Computer as a Medium: PR: DIG 2000. Not for credit for those who have had ART 2300C. Drawing of objects using the computer. Students will use a stylus with Painter, Photoshop and illustrator software to draw from still life arrangements. Occasional.

DIG 3485 CAH-DIG 3(3,0)
Visual Language of the Moving Image: PR: DIG 3001 or FIL 1007, and a minimum grade of "B" (3.0) or better in DIG 3001. C.I. Digital Media, Film or Animation major. Conceptual structure and design of visual storytelling. Principles, mechanics, character development, personality of place, exaggeration and effects. Fall, Spring.

DIG 3503 CAH-DIG 3(3,0)
Rapid Application Web Development: PR: DIG 3001 and DIG 4921C. Integration of Core Internet technologies to produce usable interfaces and algorithms. May be repeated for credit 3 times. Odd Fall.

DIG 3523 CAH-DIG 3(3,0)
The Production Process: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Production in a visual medium from narrative to finished artifact. Odd Fall.

DIG 3525 CAH-DIG 3(3,0)
Digital Media Production I: PR: DIG 2000, GRA 2101C and a minimum grade of "B" (3.0) or better in DIG 3001. Media project planning, organization and execution; group dynamics. Software tools for project planning, scheduling and management. Fall, Spring.

DIG 3563 CAH-DIG 3(3,0)
Information Management and Authorship: PR: DIG 3001. Storage, retrieval of assets and authoring of databases and file types. Fall, Spring.

DIG 3811 CAH-DIG 3(3,0)
User-Centered Design: PR: B or better in DIG 3001. The creation of media software and other human-system products by applying knowledge about cognition and behavior. Fall, Spring.

DIG 3821 CAH-DIG 3(3,0)
Creative Digital Problem Solving: PR: Minimum grade of "B" (3.0) in DIG 3001. Practical tools to enhance the creative process in the development of new, novel, and useful ideas for work and life. Fall, Spring.

DIG 3855 CAH-DIG 3(3,0)
Converging Media: PR: FIL 3252 and DIG 3001; Film or Digital Media major with a minimum grade of "B" (3.0) in DIG 3001. Applying the convergence of story, play and game conventions into innovative Internet experiences. Even Spring.

DIG 4204 CAH-DIG 3(3,0)
Generating and Manipulating Digital Imagery: PR: Grade of "A" in DIG 3485 and a minimum grade of "B" (3.0) or better in DIG 3001. Core techniques for creating and manipulating second and third digital representations. Fall.

DIG 4206C CAH-DIG 4(3,3)
New Imagery in Motion Workshop: PR: DIG 3355 and successful portfolio review, or CI. Techniques and mechanics of new approaches to visual communication, new narrative structures, new and emerging media. Even Fall, Odd Spring.

DIG 4233 CAH-DIG 3(3,0)
Modeling for Visual Language: PR: DIG 4780 and a minimum grade of "B" (3.0) or better in DIG 3001. Constructing organic 3D models for non-real time applications, operating high performance CAD systems, and using higher-order modeling techniques. Introduction to rigging and animation controls, materials, lighting and rendering. Even Fall, Odd Spring.

DIG 4234 CAH-DIG 3(3,0)
Modeling for Realtime Systems II: PR: DIG 4780 and a minimum grade of "B" (3.0) or better in DIG 3001. Advanced techniques for character animation, texture, lighting, rendering. Project oriented. Fall, Even Spring.

DIG 4235C CAH-DIG 4(3,3)
Look Modeling Workshop: PR: COT 3960 and (DIG 3362 or DIG 3355) and successful portfolio review, or CI. Techniques, mechanics of designing, developing finished look emphasis on rendering, shading, texturing, and lighting. Even Fall, Odd Spring.

DIG 4326C CAH-DIG 4(3,3)
Geometrical Modeling Workshop: PR: COT 3960 and (DIG 3362 or DIG 3355) and successful portfolio review, or CI. Techniques and mechanics of designing and manipulating geometrical representations of artificial characters and their environments; introduction to procedural models. Odd Fall, Spring.

DIG 4359C CAH-DIG 4(3,3)
Artificial Environments and Effects Workshop: PR: DIG 3355 and successful portfolio review, or CI. Techniques and mechanics of artificial environments, with emphasis on composing, image processing, visual style, visual continuity. Odd Spring.

DIG 4369C CAH-DIG 3(3,3)
Artificial Characters Workshop: PR: DIG 3362 and successful portfolio review, or CI. Techniques and mechanics of artificial characters, with emphasis on attitude in action, personality of character expressions, and bringing characters to life. Odd Spring.

DIG 4451C CAH-DIG 4(3,3)
Visual Storytelling and Visual Development Workshop: PR: DIG 3400, and CI. Techniques and mechanics of visual development with emphasis on strong visual designs which communicate effectively. Odd Spring.

DIG 4455C CAH-DIG 3(3,0)
Interactive Performance II: PR: DIG 3450C or CI: Continuation of Interactive Performance I, with focus on the integration of actors, audience participation, technology, and story structure. Even Fall, Spring.

DIG 4486 CAH-DIG 3(3,0)

DIG 4522 CAH-DIG 3(3,0)
Digital Media Service: PR: DIG 3003. Practicum in which students utilize their digital media skills to create media rich products. May be used in the degree program a maximum of 4 times. Fall, Spring.

DIG 4523L CAH-DIG 1(0,3)
Digital Media Service III: PR: DIG 4522L and a minimum grade of "B" (3.0) or better in DIG 3001. Participation as a leader in a consulting service for selected clients both within and external to the university, where students design Web pages, and provide tutorial, installation, and maintenance assistance with software tools. Graded S/U. Even Fall, Spring.

DIG 4524L CAH-DIG 3(0,3)
Digital Media Project I: PR: DIG 3525 and a minimum grade of "B" (3.0) or better in DIG 3001. Multidisciplinary students work with faculty and industry mentors to design and implement a project involving virtual reality, video game production, computer animation, or interaction with the theme park industry. Odd Fall, Even Spring.

DIG 4526C CAH-DIG 3(2,2)
Digital Media Production II: PR: DIG 3525 and a minimum grade of "B" (3.0) or better in DIG 3001. Management and execution of large media projects, using structured methods and tools learned in Digital Media Production I. Fall, Even Spring.

DIG 4528 CAH-DIG 3(0,0)
Digital Media Project II: PR: DIG 4528L and a minimum grade of "B" (3.0) or better in DIG 3001. Multidisciplinary students work with faculty and industry mentors to design and implement a project involving virtual reality, video game production, computer animation, or interaction with the theme park industry. Odd Fall, Even Spring.

DIG 4530C CAH-DIG 3(3,0)
Media for E-Commerce II: PR: DIG 3001 and DIG 4921C with a minimum grade of "B" (3.0) in DIG 3001. The applications of server-side internet programming languages and media theory to e-commerce, internet security, and online portals. Project oriented. Fall, Spring.
DIG 4640 CAH-DIG 3(3,0)
Autonomous Media: PR: DIG 3134C and a minimum grade of “B” (3.0) or better in DIG 3001. Applications of concepts derived from research on artificial intelligence, to media and the Internet. Project-based. Occasional.

DIG 4641 CAH-DIG 3(3,0)
Creative Digital Devices: PR: DIG 3134C and ART 2201C and a minimum grade of “B” (3.0) or better in DIG 3001. The physical construction and computer control of electromechanical devices, and the use of software libraries for controlling testbed hardware, for entertainment and creative applications. Occasional.

DIG 4645 ECS-CS 3(3,0)
Digital Media: PR: COP 3530C or C.I. Information structures, algorithms and interactive tools for creation, compression, storage, indexing and transmission of multimedia (visual images, sound, tactile displays, etc.) Project-oriented. Occasional.

DIG 4713C CAH-DIG 3(1,2)
Game Design: PR: DIG 3134C and a minimum grade of “B” (3.0) in DIG 3001. Principles and theories of video game design, including software, content, interaction, and game play design. Project based. Fall, Spring.

DIG 4715C CAH-DIG 3(1,2)
Game Production: PR: DIG 4713C or COP 3330 or DIG 4780, and DIG 3001 with a minimum grade of “B” (3.0) in DIG 3001. Principles and theories of video game production, including project planning, scripting, 3D modeling and texturing, level design, and audio. Project based. Fall, Spring.

DIG 4716L CAH-DIG 3(0,3)
Internet Interaction: PR: DIG 2000 or CGS 375 and a minimum grade of “B” (3.0) or better in DIG 3001 or C.I. Interdisciplinary approach to design and construction of advanced interactive web sites, applying aesthetic and scientific principles of user interface design. Project oriented. Fall, Spring.

DIG 4770 ECS-CS 3(3,0)

DIG 4922C CAH-DIG 3(2,2)
Media for e-Commerce I: PR: DIG 2000 and (COP 2500C or COP 3530C) and a minimum grade of “B” (3.0) or better in DIG 3001. Media in support of electronic commerce on the Internet. Emphasis on the artistic and creative components supporting the business aspects of electronic commerce. Project oriented. Odd Fall, Even Spring.

DIG 4931 CAH-DIG 3(3,0)

DIG 5045C CAH-DIG 3(1,3)
Principles of Interactive Entertainment I: PR: Admission to Digital Media M.S. program or C.I. Interactive digital content creation technologies and development processes. Fall.

DIG 5046C CAH-DIG 3(1,3)
Principles of Interactive Entertainment II: PR: DIG 5045C or C.I. Advanced principles of interactive digital content creation technologies and development processes. Fall.

DIG 5136C CAH-DIG 3(1,3)
Design for Media: PR: Graduate standing and C.I. Theories and practices of interactive design for digital media content. Fall.

DIG 5366 CAH-DIG 3(3,0)
Creating Interactive Characters: PR: Admission to Digital Media M.S. or C.I. Survey of issues related to creating interactive characters. Topics will range from modeling humans to reviewing realistic human capabilities. Graded S/U. Fall, Spring.

DIG 5529C CAH-DIG 3(1,3)
Production for Media: PR: Admission to Digital Media M.S. program or C.I. Theories and practices of production processes for interactive entertainment. Fall.

DIG 5548C CAH-DIG 3(1,3)
Rapid Prototype Production I: PR: Admission to Digital Media M.S. or C.I. Students engage in interdisciplinary teams to create rapid development projects. Fall.

DIG 5549C CAH-DIG 3(1,3)
Rapid Prototype Production II: PR: DIG 5548C or C.I. Students engage in interdisciplinary teams to create advanced rapid development projects. Fall.

DIG 5550C CAH-DIG 3(1,3)
Digital Media Development: PR: DIG 5136C or C.I. Students will begin developing projects specified by design documents from Design for Media course. Odd Fall.

DIG 5551C CAH-DIG 3(1,3)
Interactive Media Design: PR: DIG 4716L and DIG 3286C or equivalent, or C.I. Interdisciplinary approach to design and construction of advanced interactive media, applying theory, aesthetic, and scientific principles of user interaction. Project and theory-based. Even Spring.

DIG 5565C CAH-DIG 3(1,3)

DIG 5567C CAH-DIG 3(3,0)
Autonomous Characters: PR: Graduate status or senior standing or C.I. Interdisciplinary study of autonomous character-computer programs that mimic human behavior in games, simulations and interactive literature. Formal models of strategy, tactics and actions. Occasional.

DIG 5647C CAH-DIG 3(1,2)
Science & Technology of Dynamic Media: PR: Graduate status or C.I. Contemporary media theory and survey of scientific principles behind digital media production, synthesis, and evaluation. Fall.

DIG 5810 CAH-DIG 3(3,0)
Ways of Seeing: Cultural and Technological Perspectives: PR: Admission to Film and Digital Media majors program or C.I. Cultural and technological perspectives formed by the intersection of media and cultural studies, art history and criticism, and cinema studies. Fall.

DIG 5835 CAH-DIG 3(3,0)
Digital Forensics: PR: CGS 5131 (Computer Forensics I) or C.I. Application of digital scientific techniques to solve information assurance, forensic and legal problems. Occasional.

DIG 5950 CAH-DIG 3(3,0)
Interactive Entertainment Capstone: PR: Admission to Digital Media M.S. Prepare a product design document and technical design document for a production project. Graded S/U. Fall, Spring.

DSC 4013 HPA-CJ/LI 3(3,0)

EAB 3703 COS-PSCYH 4(3,2)
Principles of Behavior Modification: PR: EXP 3404. An examination of the control of behavior through applications of principles and theories of learning. Examples are drawn from clinical and social psychology and from child rearing. Lecture/Practicum. Fall.

EAB 3705C COS-PSCYH 4(3,2)
Behavior Modification - Part II: PR: EAB 3703, EXP 3404. Continued examination of the principles of behavior analysis and their application, as well as ethical issues related to the delivery of behavior analysis programs. Occasional.

EAB 5765 COS-PSCYH 3(3,0)
Applied Behavior Analysis with Children and Youth: PR: DEP 5567 and EXP 5445, and graduate status or senior standing or C.I. Advanced survey of principles, procedures, and techniques of applied behavior analysis, with special attention to applications with children and youth. Occasional.

EAS 3010 ECS-MMAE 3(3,0)
Fundamentals of Aerospace Flight: PR: EGN 3311 and a “C” (2.0) or better in all of the following prerequisites: MAC 2311, MAC 2312 and PHY 2048 CR: EGN 3343. Fundamental theories of inviscid, incompressible aerodynamics and flight mechanics, airfoil theory, external and internal flows, airplane performance. Fall.

EAS 3101 ECS-MMAE 3(3,0)

EAS 3530 ECS-MMAE 3(3,0)

EAS 3800C ECS-MMAE 3(2,3)

EAS 3810C ECS-MMAE 2(1,3)

EAS 4105 ECS-MMAE 3(3,0)

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, nozzle and wind tunnels, methods of analyzing compressible flow about airfoils, wings, and bodies. Viscous boundary layers and applications to the design process. Fall.

EAS 4200 ECS-MMAE 3(3,0)
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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. Turbomachinery, ramjets and rockets. Spring.

EAS 4400 ECS-MMAE 3(3,0) Spacecraft Attitude Dynamics: PR: EML 4312C. Kinematics and dynamics of rigid and multibody spacecraft rotational motion. Attitude control with momentum exchange actuators and thrusters. Occasional.

EAS 4404C ECS-MMAE 3(2,3) Discrete Control in Aerospace Vehicles: PR: EML 4312C and EAS 3800C. Discrete control aspects of aerospace vehicles, digital controller, design, state-space representation, Z-transform, system response. Spring. M&S fee: $15.00

EAS 4505 ECS-MMAE 3(3,0) Orbital Mechanics: PR: EGN 3321 and a "C" (2.0) or better in all of the following: MAC 2311, MAC 2312, MAC 2313, MAP 2302 and PHY 2046. Two-body problem, orbital equations, orbital transfer, earth satellite operation. Spring.

EAS 4700C ECS-MMAE 3(1,6) Aerospace Design I: PR: EAS 3810C, CR: EML 4312C. Application of the design process to the team solution of a state-of-the-art problem. Airplanes and space vehicles, systems and devices are considered. Fall, Spring. M&S fee: $45.00

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. Fall, Spring. M&S fee: $45.00


EAS 5302 ECS-MMAE 3(3,0) Direct Energy Conversion: PR: EML 3101 and EML 4142. Direct methods of energy conversion; particular emphasis on fuel cells, thermoelectrics, thermionics, solar energy, photovoltaics and magnetohydrodynamics. Analysis and systems design. Occasional.


EAS 5407 ECS-MMAE 3(3,0) Mechatronic Systems: PR: EML 4804C or EAS 4404C. Discrete control techniques for aerospace mechatronic systems. Controller design, test and evaluation applications. Odd Spring.
ECON 4941 BA-ECON 3(3,0)

ECON 5005 BA-ECON 3(3,0)

ECON 5006 BA-ECON 1.5(1,5,0)

ECP 3004 BA-ECON 3(3,0)

ECP 3203 BA-ECON 3(3,0)

ECP 3302 BA-ECON 3(3,0)
Economics and the Environment: PR: Sophomore standing, ECO 2013 and ECO 2023 or C.I. Provide fundamental insights into the interdependence between energy use, environmental quality, and the economy at both the microeconomic and macroeconomic level. Odd Fall.

ECP 4302 BA-ECON 3(3,0)
Environmental and Natural Resource Economics: PR: ECO 2013 and ECO 2023 or C.I. Provide a comprehensive introduction to environmental problems from an economic perspective, its relationship to other disciplines, and the international dimension of environmental policy. Even Fall.

ECP 4403 BA-ECON 3(3,0)
Industrial Organization and Game Theory: PR: ECO 2013 and ECO 2023. A study of the performance of industries representative of various types of market structure and practices, as well as the public policies affecting these industries. Even Spring.

ECP 4703 BA-ECON 3(3,0)

ECS 4013 BA-ECON 3(3,0)

ECS 4204 BA-ECON 3(3,0)

ECS 4210 BA-ECON 3(3,0)

ECO 4303 BA-ECON 3(3,0)

ECO 4442H BA-ECON 3(3,0)

EDF 3942 ED-TLP 3(3,0)
Internship I: PR: EDG 4323, RED 3012, MAE 2801, TSL 4080. Student teaching assignment in an elementary school under the supervision of a certified classroom teacher. Graded S/U. Fall, Spring.

EDF 4943 ED-TLP 7-12(0,35)

EDE 1075 ED-ES 3(3,0)
Introduction to Education: Introduction to educational internship with selected partnership institutions. Occasional.

EDF 2005 ED-ES 3(3,0)
Introduction to Education: A course survey including an orientation to education careers, ethics, and the historical, philosophical and sociological foundations of education. This course has a field component. Fall, Spring.

EDF 2130 ED-ES 3(3,0)
Child and Adolescent Development for Educators: Critical examination of developmental stages and characteristics of individuals from infancy through adolescence with application to learners in educational settings. Fall, Spring.

EDF 2250 ED-ES 3(3,0)
Classroom Management for Substitute Teachers: Instructional and classroom management strategies to optimize student learning and maximize the effectiveness of substitute teachers. Fall, Spring.

EDF 2283 ED-ES 3(3,0)
Introduction to Applications of Technology in Education: Classroom applications of instructional media including computers. Occasional.

EDF 2720 ED-ES 3(3,0)
Children in Schools: Legal, Ethical and Safety Concerns: PR: EDF 2005, EDG 2701, EME 2040, or C.I. The role of education in children’s lives through the analysis of legal, ethical and safety concerns. Fall, Spring.

EDF 3120 ED-ES 3(3,0)
Observing Child Growth and Development: PR: Admission to the program. Provides a comprehensive introduction to the principles and basic theories of child growth and development from pre-natal development through age eight. Fall, Odd Spring.

EDF 3303 ED-ES 3(3,0)

EDF 3601 ED-ES 3(3,0)
Professional Ethics in Education: Pedagogical knowledge, awareness of educational process and the analytical skills necessary for responsible public involvement in educational policy making. Fall, Spring.

EDF 3740 ED-ES 3(3,0)

EDF 4214 ED-ES 3(3,0)
Classroom Learning Principles: PR: EDF 2005 and Junior standing or C.I. Principles of learning as applied to classroom teaching situations, with emphasis on student development, behavior, self-concept and motivation. Fall, Spring.

EDF 4282 ED-ERTL 3(3,0)
Applications of Technology in Education: Classroom applications of instructional media. Includes computers. Includes experiences with equipment, commercial and teacher-made media, and their uses. Occasional.

EDF 4466 ED-ERTL 3(3,0)
Classroom Assessment & Evaluation Techniques: PR: Completion of Internship I or C.I. Classroom measurement skills in designing traditional and alternative assessments, using results for student evaluation and instructor performance, and interpretation of standardized test results. Fall, Spring.

EDF 4467 ED-ES 3(3,0)
Learning Theory and Assessment: PR: EDF 2005, EDG 2701, EME 2040 or C.I. Critical analysis of contemporary educational issues, including ethical, safety, legal, cultural, and linguistic considerations which directly impact teaching in a democracy. Fall, Spring.

EDF 5245 ED-ES 3(3,0)

EDF 5607 ED-ES 3(3,0)
Language, Culture and Pedagogy: Impact and Implications: PR: C.I. Explores in-depth issues surrounding learning needs of students from linguistically and culturally diverse populations. Research on language, culture and pedagogy will be highlighted. Occasional.

EDG 1005C ED-ES 2(1,1)
Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Education providing a foundation of leadership, scholarship, and service regarding disciplines in the college. Fall, Spring.

EDG 2311 ED-ES 3(3,0)
Teaching Strategies for Substitute Teachers: Planning, adapting and implementing effective instructional practices and assessing student performance in K-12 settings with diverse populations. Fall, Spring.
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EDG 2701 ED-ES 3(3,0) Teaching Diverse Populations: An introduction to cultural factors and their impact on education and life changes. Explores stereotyping, prejudice and changing classroom demographics. Includes directed field experience. Fall, Spring.

EDG 4323 ED-ES 3(3,0) Professional Teaching Practices: PR: EDF 2405 or C.I. Analysis of teaching strategies for K-12 settings, including higher order thinking, classroom management, alternative assessment and adaption of instruction for diverse student populations. Fall, Spring.

EDG 4410 ED-ES 3(3,0) Teaching Strategies and Classroom Management: PR: EDF 2405, EDS 270L, EME 2040, or C.I. Instructional, organizational and classroom management strategies to create effective learning environments. Fall, Spring.

EDG 4441 ED-ES 1-8(0,1-8) Directed Field Experience: PR: Approval of Professional Laboratory. Field experience in an appropriate educational setting under the direction of a supervising teacher and/or university supervisor. Occasional.

EDG 4448 ED-ES 3(3,0) Service Learning: PR: PSY 2012 or C.I. Involvement with community agencies and/or schools to gain a new perspective about the central Florida community. May be repeated for credit. Fall, Spring.

EDG 5745 ED-ES 3(3,0) Teaching the Non-English Student: PR: C.I.-Bilingual and nonlinguistic instruction in curriculum areas in English as a second language. Occasional.

EDG 5941 ED-ES 2-8(0,11) Clinical Practice: PR: Admission to STEP II, III or IV. Clinical Internship in an appropriate educational setting under the direction of a university supervisor or peer teacher. Occasional.

EDH 5306 ECS-MMAE 1(1,0) Teaching Methods in Engineering: PR: graduate standing in an engineering discipline. This course will cover basic teaching pedagogy to help engineering students become better TA’s and help students deliver better technical presentations. Occasional.

EDS 5356 ED-ERTL 3(2,1) Supervision of Professional Laboratory Experiences: PR: C.I. Study of the undergraduate professional laboratory experiences program, with emphasis on the role and responsibilities of the Teacher Education Associate or Supervising Teacher. Occasional.


EED 3613 ED-CFCS 3(3,0) Observation and Assessment of Young Children: PR: Admission to the program. Appropriate methods for diagnosing, assessing, and evaluating young children, including children with diverse cultural and ethnic backgrounds. Appropriate interventions, remediations, and enrichment. Occasional.

EED 3700 ED-CFCS 3(3,0) Social and Emotional Development of Young Children: Provides an in-depth understanding of the social and emotional development of the young child. Examines the implication for curriculum development. Occasional.

EED 3940 ED-CFCS 3(0,3) Integration Internship I: PR: Senior Status; RED 4311 or RED 5310. Field based placement in which the students will have supervised practice integrating course content areas. Occasional.


EED 4266 ED-CFCS 3(3,0) Early Intervention: Provides an overview of development assessment, and intervention with at-risk and handicapped infants and toddlers. Occasional.

EED 4268 ED-CFCS 3(3,0) Curriculum Activities in Early Childhood: PR: Admission to Early Childhood Education Program. An integrated approach to curriculum planning and scheduling including materials, strategies, and environments for young children which emphasize active learning. Fall, Spring.

EED 4303 ED-CFCS 3(3,0) Planning Creative Activities in Early Childhood Education: PR: Admission into Early Childhood Education Program (PreK-3rd certification). Organization of instruction and methods for creative activities in a basic skills integrated PreK-3rd curriculum involving dance, music, theater, visual arts, digital photography, literature and gaming. Fall, Spring.

EED 4402 ED-CFCS 3(3,0) Cultural and Family Systems: Explores the institution of family in its cultural context as a living dynamic system. Occasional.

EED 4524 ED-CFCS 3(3,0) Organization and Management in Early Childhood: Provides students with managerial and supervisory skills required to administer a developmentally appropriate early childhood program. Occasional.

EED 4528 ED-CFCS 3(3,0) Infant/Toddler Care and Education: Provides the knowledge and skills that will enable the student to become a competent worker with very young children and their families. Occasional.


EED 4731 ED-CFCS 3(3,0) Health, Safety, and Nutrition for Young Children: Health and safety issues in early childhood (K-3). Protection from injury and infection; promotion of healthy development, good nutrition, and appropriate health and fitness habits. Spring.


EED 4943 ED-CFCS 12(0,12) Student Teaching: Provides opportunities for student teachers to use the knowledge and skills they acquired in a supervised public school setting. Graded S/U. Occasional.

EED 5205 ED-CFCS 3(3,0) Programs and Trends in Early Childhood Education: PR: Regular Certificate or C.I. Philosophy, content, facilities, instructional materials, and activities appropriate for children ages 3 to 8 years; current research; issues and trends. Concurrent laboratory experiences. Occasional.

EED 5206 ED-CFCS 3(3,0) Organization of Instruction in Early Childhood Education: PR: Regular Certificate or C.I. Organization in instruction relating to language arts, social sciences, mathematics, health and physical education, problems relating to reading readiness and cognition (K-3). Concurrent laboratory experiences. Spring.

EED 5208 ED-CFCS 3(3,0) Creative Activities in Early Childhood: PR: Regular Certificate or C.I. Organization of instruction and methods for creative activities involving music, art, literature and educational toys, tools, and materials appropriate for children (K-3). Concurrent laboratory experience. Even Fall.

EED 3250 ED-CFCS 3(3,0) Behavioral Issues of the Emotionally Handicapped: An introduction to functional schema of the field to include behavior management techniques, theories, legal considerations, counseling skills, etiology, prevention and utilization of community services. Occasional.


EED 4210 ED-CFCS 3(3,0) Curriculum and Program Adaptation, E.H.: Development of highly specialized curriculum and identification, evaluation, modification, and use of curriculum materials and programs for students with emotional handicaps. Occasional.

EED 4243 ED-CFCS 3(3,0) Teaching the Emotionally Handicapped: Instructional strategies with emphasis on motivational strategies, development, implementation and evaluation of the E.H. Education: PR: EED 2010; Instructional strategies and specialized curriculum for teaching students with emotional handicaps with emphasis on instructional techniques and use of curriculum materials and programs. Occasional.

EEL 3004 ECS-ECE 3(3,0) Electrical Networks: PR: MAC 2311, MAC 2312, MAC 2313, PHY 2048, PHY 2049, CR: MAP 2302 (To enroll in this course, a C or better with a cumulative GPA of 2.7 or better for the above courses is required). Analysis and design of linear circuits, transients, ac analysis, power calculations, three-phase circuits, Laplace transform. Fall, Spring. M&I fee: $15.00

EEL 3041 ECS-ECE 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 CeP majors. Fall, Spring.

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EEL 3306 ECE-ECE 3(3,0) Semiconductor Devices I: PR: EEL 3004. Electronic devices including p-n junctions, bipolar transistors, field effect transistors and device models. Fall, Spring.

EEL 3307C ECE-ECE 3(3,3) Electronics I: PR: EEL 3123C, EEL 3306. Electronic devices, analog electronic circuits, amplifier analysis and design, and frequency effects. Fall, Spring. M&S fee: $15.00

EEL 3342C ECE-ECE 3(2,3) Introduction to Digital Circuits and Systems: PR: MAC 2311, MAC 2312, MAC 2313, PHY 2048, PHY 2049 or C.I. (To enroll in this course, a C or better with a cumulative GPA of 2.7 or better for the above courses is required). Switching theory and devices. Combinational and sequential logic. Logic design using standard components such as ROM, arithmetic units, multiplexers, registers, and counters. Fall, Spring. M&S fee: $15.00

EEL 3470 ECE-ECE 3(3,0) Electromagnetic Fields: PR: EEL 3004. Electric and magnetic fields and electromagnetic waves. Fall, Spring.

EEL 3520 ECE-ECE 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 CEE majors. Fall, Spring.


EEL 3657 ECE-ECE 3(3,0) Linear Control Systems: PR: EEL 3123C. Control theory, transfer function modeling, Nyquist criteria, root focus, Bode plots, and Design of lead and lag compensation. Fall, Spring.

EEL 3801 ECE-ECE 3(3,0) Introduction to Computer Engineering: PR: C (2.0) or better in the following: MAC 2311, MAC 2312, MAC 2313, PHY 2048, PHY 2049, or CIE: EEL 3342C. Logic design, computer arithmetic, Instruction set Architecture (MIPS, SPIM simulation), performance, cache path, control unit, memory hierarchy, I/O interface. Fall, Spring. M&S fee: $10.00

EEL 4130 ECE-ECE 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. Occasional.

EEL 4140C ECE-ECE 3(3,3) Analog Filter Design: PR: EEL 3323C. Passive and active analog filter design. Fall. M&S fee: $15.00

EEL 4205 ECE-ECE 3(3,0) Electric Machinery: PR: EEL 3004, Fundamentals of DC and AC electric machines. Occasional.

EEL 4216 ECE-ECE 3(3,0) Fundamentals of Electric Power Systems: PR: EEL 3004 or C.I. Three-phase power representation and analysis, transformers, per unit system, symmetrical components, faults, and transmission lines. Spring.

EEL 4309C ECE-ECE 4(3,3) Electronics II: PR: EEL 3307C, EEL 3342C. Ideal Op-Amps and applications. Introduction to Logic Circuits; Bipolar, MOS and CMOS families; Flip-flops and memory cells, comparators and timing circuits; A/D and D/A converters. Fall, Spring. M&S fee: $15.00


EEL 4436C ECE-ECE 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. Odd Fall. M&S fee: $15.00

EEL 4440 ECE-ECE 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. Spring.

EEL 4512C ECE-ECE 3(3,0) Communication Systems: PR: STA 3032, EEL 3552C and EEL 3307C. Information transmission, modulation, and noise; design and comparison systems in the presence of noise. Occasional. M&S fee: $15.00


EEL 4518 ECE-ECE 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. Fall.

EEL 4612 ECE-ECE 3(3,0) Introduction to Modern and Robust Control: PR: EEL 3557. Classical control theory including differential equations and Laplace transform techniques, stability analysis, and classical frequency domain design. Occasional.

EEL 4635C ECE-ECE 4(3,3) Computer Control Systems: PR: EEL 3557. Discrete-time systems, the z-transform, and simple 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. Occasional. M&S fee: $15.00


EEL 4750 ECE-ECE 3(3,0) Digital Signal Processing Fundamentals: PR: EEL 3552C. Study of discrete-time signals and systems, z-transform, DFT introduction to digital filter design. Fall, Spring.

EEL 4767C ECE-ECE 3(3,0) Computer System Design I: PR: EEL 3342C and EEL 3901C. Basic computer organization and design. Computer performance metrics, introduction to processor, memory and I/O organization and design. Assembly language programming and microprocessor based design. Fall, Spring. M&S fee: $30.00

EEL 4768C ECE-ECE 4(3,3) Computer System Design II: PR: EEL 4767C and EEL 4851C. Continuation of EEL 4767C. Control and datapath design using a hardware description language, microprogrammed architectures, instruction and arithmetic pipelines, cache and virtual memory and RISC. Fall, Spring. M&S fee: $30.00


EEL 4783C ECE-ECE 3(3,3) Computer-Aided Engineering Design: PR: EEL 4788C. Review of currently available CAE tools for digital hardware and software design applications. Occasional. M&S fee: $5.00

EEL 4791 ECE-ECE 3(2,4) Telemetry and Space Computer Systems: PR: EEL 3552C and EEL 3801C, EEL 3657, EEL 3307C, EEL 3470. Telemetry and computer sub-systems are discussed as they are implemented in the space-launch system "inertial upper stages". Occasional.

EEL 4817H ECE-ECE 3(3,0) Honors Current Topics in Machine Learning I: PR: Consent of Honors and EEL 4817H. Research topics in machine learning that are of current interest to the Machine Learning community. Students will be assigned a research project. With Honors content. Occasional.

EEL 4818H ECE-ECE 3(3,0) Honors Current Topics in Machine Learning II: PR: Consent of Honors and EEL 3801C or COP 4525 or STA 3032. Machine learning, ART Neural networks, random neural network, genetic algorithms, decision trees, statistical techniques, and implementation issues. With Honors content. Occasional.

EEL 4832 ECE-ECE 3(3,0) Engineering Applications of Computer Methods: PR: MAP 2302. Major concepts of error handling, data simulation, normalization, numerical integration, math modeling, simulation software. May be repeated for credit. Occasional.

EEL 4851C ECE-ECE 4(3,3) Engineering Data Structures: PR: EEL 3801C. Design of data structures and algorithms, with emphasis on performance analysis, memory organization and comparison, stacks, queues, lists, trees, graphs, searches, and sorts. Introduction to object-oriented structures. Fall, Spring. M&S fee: $5.00

EEL 4872 ECE-ECE 3(3,0) Engineering Applications of Intelligent Systems: PR: EEL 4851C. Intelligent models, computer vision, natural language understanding, pattern analysis, knowledge-based systems, symbolic programming, and advanced architectures. Occasional.

EEL 4882 ECE-ECE 3(3,0) Engineering Systems Software: PR: EEL 4851C and EEL 4767C. Introduction to operating systems concepts and facilities for engineering applications, including multiprogramming, resource allocation and management, systems utilities, and operating system implementation. Fall, Spring.

EEL 4884C ECE-ECE 4(3,3) Engineering Software Design: PR: EEL 4851C. Software systems development life cycle, function and object-oriented methodologies, CASE, Analysis, design, and development of a large software project. Fall, Spring. M&S fee: $5.00
EEL 4890 ECS-ECE 3(3,0) Continuous System Simulation I: PR: MAP 2302. Numerical integration techniques and discrete time system models for approximating the dynamics of continuous systems. Occasional.

EEL 4914 ECS-ECE 3(2,1) Senior Design I: PR: EEL 3307C, EEL 3657, and EEL 3520C. Applications of engineering design to realistic and meaningful problems. Constraints such as economic factors, safety, reliability, aesthetics, ethics, social impact and engineering organizations are considered. Fall, Spring.

EEL 4915L ECS-ECE 3(0,3) Senior Design II: PR: EEL 4914. Execution of electrical and computer engineering projects including complete project design review, construction, testing and demonstration. Emphasis on design, prototyping, cost, functionality, presentation, team effort and final report. Fall, Spring. M&S fee: $15.00

EEL 5072 ECS-ECE 3(3,0) Biomedical Sensors: PR: EEL 4750 or EEL 4832 or C.I. Study of engineering concepts behind the various biomedical sensors used to monitor a patient undergoing clinical therapy. Occasional.

EEL 5173 ECS-ECE 3(3,0) Linear Systems Theory: PR: EEL 3657. Models and properties of linear systems, transformation, controllability and observability, control and observer designs, MFD, and realization theory. Spring.

EEL 5245C ECS-ECE 3(2,1) Power Electronics: PR: EEL 4309C. Principles of power electronics, power semiconductor devices, inverter topologies, switch-mode and resonant dc-to-dc converters, cycloconverters, applications. Fall.

EEL 5332C ECS-ECE 3(2,1) Thin Film Technology: PR: EEL 3306 or equivalent. Presents the various thin film deposition techniques for the fabrication of microelectronic, semiconductor, and optical devices. Occasional. M&S fee: $30.00

EEL 5352 ECS-ECE 3(3,0) Semiconductor Material and Device Characterization: PR: EEL 3306 or C.I. Semiconductor material characterization resistivity, mobility, doping carrier lifetime, device properties, threshold voltage, interface charge of MOS devices, optical and surface characterization of films. Occasional.

EEL 5353 ECS-ECE 3(3,0) Semiconductor Device Modeling and Simulation: PR: EEL 3307C. Large signal and small signal model development for semiconductor diodes, BJT's and MOSFET's. Parameter extraction, numerical algorithm, and SPICE simulation are included. Spring.

EEL 5355C ECS-ECE 4(3,3) Fabrication of Solid-State Devices: PR: EEL 3306. Fabrication of micromechanical devices, processing technology, ion implantation and diffusion, device design, and layout. Laboratory includes device processing technology. Fall, Spring. M&S fee: $45.00


EEL 5378 ECS-ECE 3(3,0) CMOS Analog and Digital Circuit Design: PR: EEL 4300C. Advanced principles and design techniques for CMOS ICs including most recent published results. Fall.
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EEX 4763 ED-CFCS 3(3,0) Technology for Classroom Teachers of Students with Special Needs: PR: EEX 3241, RED 3012, LAE 4314, MAC 2301. Enhancing teacher preparation through the use of technology for students with special needs. Fall, Spring.

EEX 4943 ED-CFCS 12(0,35) Internship II: PR: Completion of specialization. Satisfactory completion of the portfolio. Full day student teaching under a certified special education teacher in an elementary or secondary school. May be repeated for credit. Graded S/U. Occasional.

EEX 5051 ED-CFCS 3(3,0) Exceptional Children in the Schools: PR: Senior standing of C.I. Characteristics, definitions, educational problems, and appropriate educational programs for the exceptional children in schools. Fall, Spring.

EEX 5702 ED-CFCS 3(3,0) Planning Curriculum for Pre-kindergarten Children with Disabilities: Focus on curriculum planning, developmentally appropriate practices and implementation of individualized instruction for pre-kindergarten children with disabilities. Odd Spring.

EEX 5750 ED-CFCS 3(3,0) Communication with Parents and Agencies: Presentation of methods of interacting with community agencies, supporting and collaborating with families, developing a case management system, and facilitating program transition. Occasional.

EGM 3601 ECS-MMAE 3(3,0) Solid Mechanics: PR: EGN 3310 and "C" (2.0) or better in the following MAC 2311, MAC 2312, MAC 2313 and PHY 2048 CR: MAP 2302. Concepts of stress, strain, deflection; axial force, torsion, bending, combined stress, Mohr's circle. Failure theories, design concepts, application to machines and vehicles. Fall, Spring.

EGM 3601L ECS-MMAE 1(0,3) Solid Mechanics Lab: CR: EGM 3601. Solid Mechanics Laboratory experiments covering topics such as Tension/compression testing, torsion testing, strain gage measurements, buckling testing, beam bending/deflection testing. Fall, Spring. M&S fee: $15.00.

EGN 1006C ECS-ECES 1(1,2) Introduction to the Engineering Profession: PR: New students status or C.I. Overview of academic and professional requirements in various engineering disciplines. Fall. M&S fee: $5.00.

EGN 1007C ECS-ECES 1(1,2) Engineering Concepts and Methods: PR: New student status or C.I., EGN 1006C and ENC 1101; CR: SPC 1016. Introductory course on the use and applications of software in solving engineering problems. Introduction to the concepts of engineering design through the use of teams: engineering communication, engineering professionalism and ethics. Spring. M&S fee: $5.00.

EGN 1036C ECS-IEAMS 2(1,1) Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Engineering & Computer Science providing a foundation of leadership, scholarship, and service regarding disciplines in the college. Fall, Spring.


EGN 2920C ECS-IEAMS 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. Occasional.

EGN 3060C ECS-ECES 2(2,3) Introduction to Robotics: PR: Engineering majors take EGN 1007C and (EEL 3004 or EGN 3373); Computer Science majors take COP 3330, COP 350C and COP 3960. Introduction to classical and modern topics in robotics: mechanics and mechatronics, sensors, data processing, and vision, kinematics and dynamics, path and motion planning, controls, AI and evolutionary computing, cooperative control and behaviors. Occasional.

EGN 3211 ECS-ECES 3(3,0) Engineering Analysis and Computation: PR: MAC 2311. Engineering analysis and computation with structured constructs. Subscripted variables, subprograms, input/output. Batch processing and time sharing. Engineering applications will be emphasized. Fall, Spring.

EGN 3310 ECS-ECES 3(3,0) Engineering Analysis-Statics: PR: PHYS 2048; CR: MAC 2312. Fundamental concepts of mechanics, including resultants of force systems, free-body diagrams, equilibrium of rigid bodies, and analysis of structures. Fall, Spring.

EGN 3310H ECS-ECES 3(3,0) Engineering Analysis-Statics (Honors): PR: Permission of Honors and PHYS 2048; CR: MAC 2312; Honors section for EGN 3310) Advanced treatment of material and additional topics. More challenging assignments. Project work. May be repeated for credit. Fall.

EGN 3321 ECS-MMAE 3(3,0) Engineering Analysis-Dynamics: PR: EGN 3310; CR: MAC 2313. Kinematics and kinetics of particles and rigid bodies; mass and acceleration, work and energy, impulse and momentum. Fall, Spring.

EGN 3321H ECS-MMAE 3(3,0) Engineering Analysis - Dynamics Honors: PR: Permission of Honors and EGN 3310. Kinematics and kinetics of particles and rigid bodies; mass and acceleration; work and energy; impulse and momentum. Occasional.


EGN 3365 ECS-MMAE 3(3,0) Structure and Properties of Materials: PR: CHS 1440 and MAC 2312. Atomic structure and bonding, crystal structure and imperfections, solidification, phase transformations, phase diagrams, heat treatment, mechanical & electrical properties, materials characterization techniques. Fall, Spring.

EGN 3373 ECS-ECES 3(3,0) Principles of Electrical Engineering: PR: PHY 2040; CR: MAP 2302. Fundamentals of electrical circuits and analysis; fundamentals of electronics and AC power systems, transformers, electromechanics and rotating machines. Fall, Spring.


EGN 3420 ECS-ECES 3(3,0) Engineering Analysis: PR: High-level computer language; MAC 2312. Engineering applications of numerical methods including curve fitting, matrix operations, root finding, interpolating, integration and plotting. Fall, Spring.


EGN 3843 ECS-IEAMS 3(3,0) Systems Modeling: PR: ECE 1000C or equivalent. Representation of man/machine systems through analytic and computer-based models. Case studies in the analysis and improvement of systems in industry, education, and government. Occasional.


EGN 4413C ECS-MMAE 3(1,5) Interdisciplinary Design II: PR: EGN 4412C. Continuation of Interdisciplinary Design I May be repeated for credit. Spring.

EGN 4624 ECS-IEAMS 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. Fall, Spring.

EGN 4706 ECS-MMAE 3(2,4) Small Satellite Payloads and Integration: PR: EML 3300C OR EAS 3800C OR EEL 3800C OR ESI 4523C. Evaluation of several impact of construction and design concepts on various satellite component subsystems and their payloads into a small satellite system design leading to a final configuration. Occasional.
EGN 4707C  ECS-MMAE  3(2,4)  Processing Space-Launch Systems: PR: For ECE: EEL 3525C or EEL 477C; For EEMS: ESI 4523C; For MAE: EAE 3900C. Assembly and test techniques for preparing and check-out of the space-launch system "Inertial Upper Stage." May be repeated for credit. Occasional.

EGN 4824  ECS-ENT  3(3,0)  Energy and Society: Investigation of available energy forms; energy resources versus requirements in an increasingly complex technological society; possible solutions and future predictions. Occasional.

EGN 4830  ECS-ENT  3(3,0)  Telecommunications: Telecommunications and its role in contemporary local, national, and international society. Occasional.

EGN 4921C  ECS-ECS  2(2,1)  Interdisciplinary Research and Development I: PR: Junior standing in Engineering or Computer Science major. Research and methodology seminar. Topics to include: intellectual property, patents, global R&D, dissemination of findings. Seminar presentations by guest research lecturers. Occasional.

EGN 4922C  ECS-ECS  2(1,1)  Interdisciplinary Research and Development II: PR: EGN 4921C. Continuation of EGN 4921C. Occasional.

EGN 4931H  ECS-ECS  3(3,0)  Engineering Honors Seminar: PR: Permission of Honors and Senior standing and C.I. Introduces a select group of students in engineering or other fields of science to the methodology commonly employed in research. Students will carry out independent research which will prepare them for graduate study. Occasional.

EGN 4933C  ECS-ECS  1(1,1)  Professional Practice I: PR: Junior standing in engineering or computer science. Contemporary global technical issues, professional development, life long learning, and ethical responsibilities. Community service and/or community outreach projects required. Occasional.

EGN 4934C  ECS-ECS  2(1,2)  Professional Practice II: PR: EGN 4933C. Continuation of EGN 4933C. Occasional.

EGN 5035  ECS-ECS  3(3,0)  Topics in Technological Development: PR: C.I. Selected topics in the technological development of western civilization including the weight-driven clock, steam engine, electric light, etc. Occasional.

EGN 5720  ECS-IEMS  3(2,3)  Internal Combustion Engine Analysis and Optimization: PR: EGN 3343 or EGN 3538 or CI. Internal combustion engine operating principles. Topics covered include engine design and operating parameters, combustion, thermodynamics, induction flow, and basic mathematical models. Even Fall, Even Spring. M&S fee: $45.00

EGN 5840  ECS-MMAE  3(3,0)  Small Rocket Applications for Teachers: PR: Admission to Martin Marietta/UCF Academy. Earth and space environments, rocket propulsion, meteorological and environmental measurements, payload launch procedures, orbits and trajectories, safety, model rocket experiments, field trips, student science experiments. Occasional.

EGN 5855C  ECS-IEMS  3(2,2)  Metrology: PR: EIN 4391C or C.I. Advanced topics in inspection and measurement with applications in engineering and manufacturing. Occasional.

EGN 5858C  ECS-IEMS  3(2,1)  Prototyping and Product Realization: PR: Basic knowledge and/or experience in CADCAM technology or C.I. Product design and development cycle including design for functionality and manufacturability. Fundamentals, applications and practice of rapid prototyping and reverse engineering technologies. Spring. M&S fee: $45.00

EIN 3000  ECS-IEMS  2(2,0)  Introduction to Industrial Engineering and Management Systems: Issues important to the operation of an industrial or service facility. Fall.


EIN 3354  ECS-IEMS  3(3,0)  Principles of Cost Engineering: PR: EGN 3613. This course is to provide engineers from all disciplines the background for the cost estimation of engineering systems throughout the product life cycle. Fall.

EIN 4191C  ECS-IEMS  2(2,2)  Engineering Leadership Seminar I: PR: Junior or better standing in engineering with C.I. Progressive engineering leadership development (intrapersonal to interpersonal to organizational to community) via a combination of experiential and practical experiences in engineering-specific corporate and community settings. Fall.

EIN 4192C  ECS-IEMS  2(2,2)  Engineering Leadership Seminar II: PR: EIN 4191C. Continuation of EIN 4191C. Spring.

EIN 4214  ECS-IEMS  3(3,0)  Safety Engineering and Administration: Analysis of accidents in the industrial operating environment. Application of fault trees, OSHA requirements. Consideration of accident costs and organizational aspects of accident prevention. Occasional.

EIN 4243C  ECS-IEMS  3(2,2)  Human Engineering: PR: EIN 3314C; Senior standing. Man/machine systems; design and conduct of human engineering studies. Spring. M&S fee: $20.00

EIN 4333C  ECS-IEMS  3(2,3)  Industrial Control Systems: PR: ESI 4312. Decision rules in industrial environment including Forecasting, Production Planning, Scheduling, Inventory Control, and Project Monitoring. Laboratory assignments. Spring. M&S fee: $20.00

EIN 4364C  ECS-IEMS  3(2,2)  Industrial Facilities Planning and Design: PR: EIN 3314C. EGN 3534 CR-EIN 4333C. EIN 4391C. Comprehensive design of industrial production systems, including interrelationships of plant location, process design, and materials handling. Laboratory assignments. Spring. M&S fee: $20.00

EIN 4391C  ECS-IEMS  3(2,2)  Manufacturing Engineering: PR: EGN 3365. Introduction to manufacturing engineering, with emphasis on current and emerging technologies in metalworking and electronics. Fall. M&S fee: $20.00

EIN 4450  ECS-IEMS  3(3,0)  Principles of Concurrent Engineering: PR: EGN 3613 or C.I. Elements of concurrent engineering and its application. Topics include quality function deployment and design for manufacturing and assembly. Even Spring.

EIN 4516C  ECS-IEMS  3(2,2)  Systems Analysis and Design: PR: EIN 4364C. Systems analysis methodology, system requirements, specifications, system design methodology and decision support. Consulting skills and client interactions. Initiation of senior design projects. Fall. M&S fee: $20.00

EIN 4545C  ECS-IEMS  3(2,2)  Industrial Engineering Applications in The Service Industries: PR: EIN 3314C, ESI 4312, ESI 4234 or CI. Application of industrial engineering principles to improve the quality and productivity of service industries such as restaurants, banks, hotels, health care, etc. Even Fall.

EIN 4621C  ECS-IEMS  3(2,2)  Computer-Aided-Manufacturing: PR: EIN 4391C. Computer-Aided-Manufacturing (CAM) including computer numerical control (CNC), robotics, parts classification (GT) and manufacturing resource planning (MRP). Occasional. M&S fee: $45.00

EIN 4891C  ECS-IEMS  3(2,3)  Industrial Engineering Senior Design Project: PR: EIN 4516C. Senior standing. Capstone design course; application of IEMS techniques to real-world design applications. Spring. M&S fee: $15.00

EIN 5108  ECS-IEMS  3(3,0)  The Environment of Technical Organizations: PR: Graduate status or CI. EGN 4624 recommended. Presentation and investigation into the principles required to transform technologists into managers focusing on engineers, scientists, and other professionals providing services in technically-oriented organizations. Fall.

EIN 5117  ECS-IEMS  3(3,0)  Management Information Systems I: PR: CI. The design and implementation of computer-based Management Information Systems. Consideration is given to the organizational, managerial, and economic aspects of MIS. Spring.

EIN 5140  ECS-IEMS  3(3,0)  Project Engineering: PR: Graduate standing or CI. Role of engineer in project management with emphasis on project life cycle, quantitative and qualitative methods of cost, schedule, and performance control. Fall, Spring.

EIN 5248C  ECS-IEMS  3(2,2)  Ergonomics: PR: CI. Applications of anthropometry, functional anatomy, mechanics, and physiology of musculoskeletal system concepts in the engineering design of industrial tools, equipment, and workstations. Fall. M&S fee: $20.00

EIN 5251  ECS-IEMS  3(3,0)  Usability Engineering: PR: STA 3032 or equivalent. Usability paradigms/principles; cognitive walkthroughs; heuristic, review-based, model-based, empirical and story board evaluation; techniques; query techniques; laboratory techniques; and field study approaches. Occasional.

EIN 5255C  ECS-IEMS  3(2,2)  Interactive Simulation: PR: Graduate standing or CI. Introduction to significant topics relative to the development and use of simulators for knowledge transfer in the technical environment. Fall, Spring.

EIN 5317  ECS-IEMS  3(3,0)  Training System Design: PR: seniors, post bac or gradu- ate standing or CI. How human performance deficiencies should be addressed from a systems design point of view. Manpower, personnel, and training considerations will be examined. Fall.

EIN 5346  ECS-IEMS  3(3,0)  Engineering Logistics: Study of the logistics life cycle involving planning, analysis and design, testing, production, distribution, and support. Occasional.
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EIN 5356 ECS-IEMS 3(3,0)
Cost Engineering: Cost estimation and control of engineering systems throughout the product life cycle. Spring.

EIN 5368C ECS-IEMS 3(2,2)

EIN 5388 ECS-IEMS 3(3,0)
Forecasting: PR: ESI 5219. Industrial applications of forecasting methods with emphasis on microcomputer-based packages. Occasional.

EIN 5392C ECS-IEMS 3(2,2)

EIN 5607C ECS-IEMS 3(2,2)
Computer Control of Manufacturing Systems: PR: EIN 4391C, and EIN 4621C or EML 4531C; or C. I. Automated systems for manufacturing, numerical control (NC) machines, NC programming, robot control and programming, machine and system control. Odd Spring. M&S fee: $45.00.

EIN 5936 ECS-IEMS 1(1,0)
Seminar in Industrial Engineering: Doctoral Research: PR: C. I. Essential topics for doctoral research including research areas, skill building, proposals, ethics, mentors, seminars, societies, conferences, presentations, interviewing, grants, and publishing. Fall.

ELD 4011 ED-CFCS 3(3,0)
Intro to Specific Learning Disabilities: Nature and needs of students with learning disabilities to include history, theories, characteristics, definitions, assessments, issues, and application of effective teaching practices. Occasional.

ELD 4242 ED-CFCS 3(3,0)
Program Planning for Specific Learning Disabilities: PR: Senior standing. Development of highly specialized techniques, curriculum materials, to be used with students with special learning disabilities. Occasional.

ELD 4320 ED-CFCS 4(4,0)

EMA 1002 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. Occasional.

EMA 3000 ECS-MMAE 3(3,0)

EMA 3012C ECS-MMAE 3(2,2)

EMA 3014 ECS-MMAE 3(3,0)

EMA 3124 ECS-MMAE 3(3,0)
Design and Selection of Materials: PR: EGN 3601, and EGN 3665 or EMA 3706. Relationship between processing, structure and properties of various engineering materials and their selection in engineering design. Fall.

EMA 3691 ECS-MMAE 3(3,0)
Nanomaterials Process Engineering: PR: CHS 1440 or CHM 2045C, and PHY 2108B or PHY 2105C. Nanomaterials, processing, nanomachining, nanocomposites, nanocomposites, and nanotechnologies. Inclusive. Even Spring.

EMA 3706 ECS-MMAE 3(3,0)

EMA 4102 ECS-MMAE 3(3,0)
Thermodynamics and Kinetics of Materials: PR: EGN 3343, EGN 3665 or EMA 3706; and a ‘C-’ (2.0) or better in all of the following: CHS 1440 or CHM 2045C, MAC 2311, MAC 2312, MAC 2313, MAP 2302 and PHY 2048. Application of first and second laws of thermodynamics to materials, phase diagrams, statistical thermodynamics, kinetic processes in materials, diffusion, nucleation and growth, and phase transformations. Fall.

EMA 4103 ECS-ENT 3(3,0)
Space Environment Technology: PR: MAC 2253, PHY 2053C. The space environment and how it affects manufacturing of space elements to withstand the harsh space environment. Occasional.

EMA 4223 ECS-MMAE 3(3,0)

EMA 4413 ECS-MMAE 3(3,0)

EMA 4501 ECS-MMAE 3(2,2)

EMA 5403 ECS-MMAE 3(3,0)

EMA 4506 ECS-MMAE 3(3,0)

EMA 4606 ECS-MMAE 3(3,0)

EMA 4701C ECS-MMAE 3(2,4)

EMA 5060 ECS-MMAE 3(3,0)

EMA 5104 ECS-MMAE 3(3,0)

EMA 5106 ECS-MMAE 3(3,0)

EMA 5241 ECS-MMAE 3(3,0)
Surface Science: PR: PHY 2049 and C.I. Methods of chemical and physical analysis of surfaces, with emphasis on ultra-high vacuum spectroscopic utilizing electron, ion and photon probes. Occasional.

EMA 5140 ECS-MMAE 3(3,0)
Introduction to Ceramic Materials: PR: EGN 3665. Uses, structure, physical and chemical properties, and processing of ceramic materials. Discussions will include recent developments for high technology applications. Occasional.

EMA 5131 ECS-MMAE 3(3,0)

EMA 5326 ECS-MMAE 3(3,0)

EMA 5415 ECS-MMAE 3(3,0)
Electronic Principles of Materials Properties: PR: EGN 3365 or C.I. This course will cover electron theory and band structure, electrical, optical, magnetic and thermal properties of metals, semiconductors and insulators, including device examples. Fall.

EMA 5504 ECS-MMAE 3(3,2)
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. Occasional.

EMA 5505 ECS-MMAE 3(2,2)

EMA 5517 ECS-MMAE 3(2,2)
Advanced Materials Characterization by Ion Beam Analysis: PR: EMA 5504 or C.I. Principle of interactions between ion beam and solid materials; sputtering and scattering theories; fundamentals and applications of secondary ion mass and Rutherford Backscattering spectrometry. May be repeated for credit. Occasional.

EMA 5584 ECS-MMAE 3(3,0)
EMM 5586 ECS-MMAE 3(3,0)

EMM 5587C ECS-MMAE 3(2,2)

EMM 5588 ECS-MMAE 3(3,0)
Biocompatibility of Materials: PR: EGN 3365 or C.I. Biocompatibility and bioactivity, Cell-biomaterials interactions; Engineering bone & cartilage; Soft-tissue replacements; Total hip replacements; Nanobiomaterials, Imaging techniques, Preservation techniques for biomaterials, MSDS and FDA compatibility data. Occasional.

EMM 5610 ECS-MMAE 3(3,0)

EMM 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. Occasional.

EME 2040 ED-ERTL 3(3,0)
Technology for Educators: PR: Introduction to technology for educators, including classroom management tools, multimedia, communication networks, interactivity, educational software and legal, ethical and social issues. Fall, Spring. M&S fee: $1.00

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. Fall, Spring.

EME 5051 ED-TLP 3(3,0)
Technologies of Instruction & Information Management: PR: Acceptance into Ed Media program or C.I. Theories and practices in utilizing instructional media and information technologies. Emphasis on new and emerging technologies and their effects on the school and media program. Fall.

EME 5053 ED-ERTL 3(3,0)
Electronic Resources for Education: PR: Graduate standing or C.I. Study and application of electronic resources available for education including techniques for locating, evaluating, and integrating them into the classroom. Fall.

EME 5057 ED-ERTL 3(3,0)
Communication for Instructional Systems—Application: Applications of technology, communications theory, platform skills, and instructional design to the effective presentation of training programs and instruction. Occasional.

EME 5208 ED-TLP 3(3,0)
Production Techniques for Instructional Settings: PR: Acceptance into Ed Media Program or C.I. Skills in producing instructional materials. Emphasis on graphic, audio, video, and photographic skills and the application of instructional and communication theories. Spring.

EME 5225 ED-TLP 3(3,0)
Media for Children and Young Adults: PR: Acceptance into Ed Media Program or C.I. Survey of materials for children's and young adults' informational and recreational needs; analysis, evaluation, and utilization of print and non-print materials. Spring.

EME 5810 ED-TLP 1(1,0)
Teaching and Learning with Technology: Overview of technologies for teaching and for learning. Practical strategies for using technology in the classroom. May be used in the degree program a maximum of 4 times. Occasional.

EML 3001C ECS-MMAE 1(1,0)

EML 3034 ECS-MMAE 3(3,0)
Modeling Methods in Mechanical and Aerospace Engineering: PR: EGN 1007C or high level programming language, and a "C" (2.0) or better in all of the following pre-requisites: MAC 2311, MAC 2312, MAC 2313, MAP 2302 and PHY 2046. CR: EGN 3321. Computer aided modeling of mechanical and aerospace systems. Solution methods. Curve fitting. Numerical calculus and solution of differential equations with applications to mechanical and aerospace engineering. Fall, Spring.

EML 3101 ECS-MMAE 3(3,0)
Thermodynamics of Mechanical Systems: PR: EGN 3343 and a "C" (2.0) or better in all of the following: MAC 2311, MAC 2312, MAC 2313, MAP 2302 and PHY 2046. Applied thermodynamics, availability analysis, thermodynamic relations of properties. Thermodynamic design analysis of complete mechanical systems. Fall.

EML 3262 ECS-MMAE 3(3,0)
Kinematics of Mechanisms: PR: EGN 3321 and a "C" (2.0) or better in all of the following: MAC 2311, MAC 2312, MAC 2313, MAP 2302 and PHY 2046. Graphical, mathematical, and computer-aided kinematics, analysis, and synthesis of basic mechanisms. Fall.

EML 3303C ECS-MMAE 2(3,3)

EML 3500 ECS-MMAE 3(3,0)

EML 3701 ECS-MMAE 3(3,0)
Fluid Mechanics I: PR: EGN 3321, EGN 3343 and a "C" (2.0) or better in all of the following: MAC 2311, MAC 2312, MAC 2313, MAP 2302 and PHY 2046. Principles of continuum fluid mechanics. Integral and differential forms of governing equations, fluid statics, dimensional analysis, measurements, internal flows. Fall, Spring.

EML 4005 ECS-MMAE 3(3,0)

EML 4024C ECS-MMAE 3(2,2)
Engineering Design Practice: PR: EML 3304C and EML 3500 or EAS 4200. Basic CAD/CAM solid modeling techniques in a project oriented environment. Students will construct part models, drawings, and assemblies. Use of in-house software. Fall, Spring. M&S fee: $15.00

EML 4142 ECS-MMAE 3(3,0)

EML 4145 ECS-MMAE 1(1,0)

EML 4220 ECS-MMAE 3(3,0)

EML 4260 ECS-MMAE 3(3,0)
Dynamics of Machinery: PR: EML 3262 and EML 4220. Critical speeds and response of flexible rotor systems, whirl, gyroscopic effects, balancing of rotating and reciprocating masses; cam dynamics. Occasional.

EML 4264 ECS-MMAE 3(3,0)

EML 4293 ECS-MMAE 3(3,0)

EML 4304C ECS-MMAE 2(1,3)
Thermo-Fluids Measurements: PR: EML 3304C and EML 4142. Measurements in thermo-fluid systems with emphasis on design of experiments. Spring. M&S fee: $45.00

EML 4312C ECS-MMAE 3(2,3)
Feedback Control: PR: EGN 3321, MAP 2302, EGN 3373 and EML 4220 or EAS 4210C. Mathematical modeling of dynamic systems; transient and steady state response; Root Locus and z-transform methods; discrete systems analysis; controller design. Fall.

EML 4411 ECS-MMAE 3(3,0)
Mechanical Power Systems: PR: EML 3101. Analysis and design of large power generating systems and components, with emphasis on steam plants utilizing both chemical and nuclear fuels. Occasional.

EML 4501C ECS-MMAE 3(1,6)
Engineering Design II: PR: EML 3500, EML 3701 and EML 3304C. Application of the design process in the team solution of a state-of-the-art problem. Aerospace, mechanical, thermo-fluid, or material problems are considered. Fall, Spring. M&S fee: $15.00

EML 4502C ECS-MMAE 3(1,6)
Engineering Design II: PR: EML 4501C. Continuation of the design process in the team building and testing of a prototype. A test plan and a test report are completed. Fall, Spring. M&S fee: $45.00
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EML 4535C ECS-MMAE 3(2,3) CAD/CAM: PR: ENG 3343, EML 3034C, and EGM 3601; CR EAS 4200 or EML 3500. CAD/CAM/FEM computational technology. Basic concepts: Concurrent engineering approach to mechanical, thermal, and aerospace systems design and analysis. Use of in-house software. Fall, Spring. M&S fee: $15.00

EML 4600 ECS-MMAE 3(3,0) HVAC Systems Engineering: PR: EML 3101 and EML 4124. Heating, ventilation, air-conditioning, and refrigeration principles and systems design. Psychrometrics, heating and cooling loads, equipment and components, and distribution systems. Fall.

EML 4703 ECS-MMAE 3(3,0) Fluid Mechanics II: PR: EML 3701. Continuation of Fluid Mechanics I. External flows, fluid machinery, compressible flows, design projects. Fall.

EML 4804C ECS-MMAE 3(2,3) Digital Control in Mechatronics: PR: EML 4132C and EML 3303C. Discrete microprocessor control of mechatronic dynamic systems using state-space representation, digital controllers, design for mechatronic applications. Spring. M&S fee: $15.00

EML 5060 ECS-MMAE 3(3,0) Mathematical Methods in Mechanical, Materials and Aerospace Engineering: PR: MAP 2302. Vector field theory, generalized coordinates, complex variables, contour integration and Laplace and Fourier transforms and inversions, variable coefficient ODEs and solution of PDEs for governing equations of heat transfer, ideal fluid flow, and mechanics. Fall.


EML 5105 ECS-MMAE 3(3,0) Gas Kinetics and Statistical Thermodynamics: PR: EAS 4134 or EML 4703. Molecular and statistical viewpoint of gases and thermodynamics: Boltzmann collision integral, partition functions, non-equilibrium flows. Applications in thermo-fluid systems. Occasional.


EML 5244 ECS-MMAE 3(3,0) Acoustics: PR: EML 4220, CR: EML 5060. Elements of vibration theory and wave motion; radiation, reflection, absorption, and transmission of acoustic waves; architectural acoustics; control and abatement of environmental noise pollution; transducers. Occasional.

EML 5228C ECS-MMAE 3(3,0) Modal Analysis: PR: EML 3303C, EML 4220, and EML 5060. Theoretical basis, measurement techniques, excitation, transducers, data acquisition. Detailed data analysis, modal parameter extraction, curve-fitting procedures. Modeling. Occasional.


EML 5291 ECS-MMAE 3(3,0) MEMS Materials: PR: EML 5060, EML 5211, or C.I. Introduction of materials that are frequently used for MEMS applications such as silicon, metal, ceramics and polymers. The course will focus on fundamental principles involved in structures and properties of the materials, and their applications in MEMS. Even Spring.


EML 5402 ECS-MMAE 3(3,0) Turbomachinery: PR: EML 3101, EML 4703 or EAS 4134. Application of the principles of fluid mechanics, thermodynamics, and aerodynamics to the design and analysis of steam and gas turbines, compressors, and pumps. Occasional.

EML 5532C ECS-MMAE 3(2,3) Computer-Aided Design for Manufacture: PR: EGN 4520C. Builds on introductory material covered in EML 4525C. Topics include computer modeling for the synthesis, simulation, design and manufacture of mechanical, thermal, and aerospace systems. Even Fall, Spring. M&S fee: $15.00


EML 5587C ECS-MMAE 3(2,3) Mechanics of Biotissues I: PR: Graduate standing or C.I. Part I of a two semester course. Mechanical analysis of hard (bone) and soft (organs, connective tissues, etc) biotissues and the analysis includes preparation and experimental testing for constitutive equations for predictive modeling. Occasional.

EML 5588C ECS-MMAE 3(2,3) Mechanics of Biotissues II: PR: EML 5587C. Part II of a two semester course. Mechanical analysis of hard (bone) and soft (organs, connective tissues, etc) biotissues and the analysis includes preparation and experimental testing for constitutive equations for predictive modeling. Occasional.

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. Occasional.

EML 5606 ECS-MMAE 3(3,0) HVAC Systems Engineering: PR: EML 3101, EML 4142, EML 3034C. Heating, ventilation, air-conditioning and refrigeration principles, system design and analysis. May be repeated for credit. Odd Fall.

EML 5713 ECS-MMAE 3(3,0) Intermediate Fluid Mechanics: PR: EML 4703. Fluid kinematics; conservation equations; Navier-Stokes equations; boundary layer flow; inviscid flow; circulation and vorticity; low Reynolds number flow; turbulence. Occasional.


EMR 4011 ED-CFC 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. Occasional.

EMR 4362 ED-CFC 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. Occasional.

EMR 4372 ED-CFC 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. Occasional.

ENC 1101 CAH-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. The ‘NC’ grading policy applies to this course. Fall, Spring.

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ENC 1101H CAH-ENG 3(3,0) Honors Freshman Composition I: PR: Score of 60+ on TSWE of SAT or C.I. and permission of Honors. Expository writing with emphasis on effective communication and critical thinking. Emphasizing the writing process topics are based on selected readings and on student experiences. The "NC" grading policy applies to this course. Honors-level content. Fall, Spring.

ENC 1102 CAH-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. The "NC" grading policy applies to this course. Fall, Spring.

ENC 1102H CAH-ENG 3(3,0) Honors Composition II: PR: ENC 1101H with a grade of "C-" or better. Same as ENC 1102, with honors-level content. Note: Grade of C (2.0) or better required in ENC 1102. The "NC" grading policy applies to this course. Fall, Spring.

ENC 2127 CAH-ENG 3(3,0) Grammar and Composition: A systematic study of grammar and mechanics to improve editing for clarity and accuracy in writing. Occasional.


ENC 2411C CAH-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. Occasional.

ENC 3211 CAH-ENG 3(3,0) Theory and Practice of Technical Writing: PR: ENL 1102, Junior standing, or C.I. Exploring definitions and theoretical foundations in technical writing field, and the roles of writers in industry. Fall, Spring.

ENC 3211H CAH-ENG 3(3,0) Honors Theory and Practice of Technical Writing: PR: Permission of Honors and ENL 1102H or equivalent credit. Taught at Honors level. Definition, history, scope, practices, and theoretical bases of technical writing and its relationship to general English studies. Occasional.

ENC 3241 CAH-ENG 3(3,0) Writing for the Technical Professional: PR: ENC 1102, Junior standing, or C.I. Writing effective correspondence, instructions, proposals, and informal and formal reports. Fall, Spring.

ENC 3241H CAH-ENG 3(3,0) Honors Writing for the Technical Professional: PR: Permission of Honors and ENL 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. Occasional.

ENC 3250 CAH-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. Fall, Spring.

ENC 3310 CAH-ENG 3(3,0) Magazine Writing I: PR: Grade of C (2.0) or better required in ENC 1102. Intensive practice in description narration, exposition and argumentation; control of tone, mood, viewpoint, and level of diction. Applicable to article, essay, and short story writing. Fall, Spring.

ENC 3311 CAH-ENG 3(3,0) Advanced Expository Writing: PR: Grade of C (2.0) or better required in ENC 1102. Practice of expository writing directed to general reader. Fall, Spring.

ENC 3905 CAH-ENG 3(3,0) Directed experience in Writing: PR: ENC 1102. Individualized topics of study and/or research in writing with personalized faculty direction. May be repeated for credit. Occasional.

ENC 3942 CAH-ENG 3(3,0) Journal Writing Practicum: An interdisciplinary practicum in journal writing as a literary genre and a means of self-exploration. Occasional.

ENC 4215 CAH-ENG 3(3,0) Technical Publication and Project Management: PR: ENC 3211 or ENC 3231 or C.I. New publishing technology, stressing composition and printing; word processing, automated text processing, methods of reproduction, introduction of graphics; style, format, layout, and board-work. Spring. M&S fee: $10.00

ENC 4218 CAH-ENG 3(3,0) The Visual in Technical Documentation: PR: ENC 3293. Relevant theories of the visual and their application to technical communication practice. Fall, M&S fee: $10.00

ENC 4262 CAH-ENG 3(3,0) International Technical Communication: PR: Grade of C (2.0) or better required in ENC 3211 or ENC 3241 or C.I. International issues in the field of technical communication including internationalizing documents, user interface design, international collaboration, and rhetorical and logical challenges. Occasional.

ENC 4265 CAH-ENG 3(3,0) Writing for the Computer Industry: PR: ENC 1102 and Junior standing, or C.I. Creating different kinds of software manuals or online help systems for the computer industry. Occasional.

ENC 4275 CAH-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. Occasional.

ENC 4280 CAH-ENG 3(3,0) Technical Writing Style: PR: ENC 3211 or ENC 3241 or C.I. Strategies for understanding and improving writing styles, particularly for a variety of technical writing genres. Spring.

ENC 4290 CAH-ENG 3(3,0) Usability Testing for Technical Communication: PR: ENC 4265 or C.I. Usability theory and techniques for evaluating manuals, online documentation, and other technical communication genres. Occasional.

ENC 4293 CAH-ENG 3(3,0) Documentation and the Collaborative Process: PR: ENC 3211 or ENC 3241. Development of a book-length project from idea to final published product. Examples may include style manuals, policies and procedures, and training manuals. Fall, Spring.

ENC 4294 CAH-ENG 3(3,0) Documentation and Client-Based Collaboration: PR: ENC 4293. Practical application of editing theory to large ongoing projects from the student's particular field. Should be taken concurrently with ENC 4215. Fall, Spring. M&S fee: $10.00

ENC 4295 CAH-ENG 3(3,0) Capstone Experience in Technical Writing: PR: ENC 4294. Designing, writing, and illustrating a technical communication product. Development of a service-learning or client based product. Fall, Spring. M&S fee: $10.00

ENC 4312 CAH-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. Occasional.

ENC 4313 CAH-ENG 3(3,0) Research Writing: PR: ENC 1102, Junior standing, and C.I. Writing correspondence, instructions, proposals, and informal and formal reports in various disciplines. Occasional.

ENC 4360 CAH-ENG 3(3,0) Nature Writing: PR: CRW 3013 or C.I. Students will write essays that explore different approaches to writing about the natural world, and will discuss issues raised by such writing. Occasional.

ENC 4414 CAH-ENG 3(3,0) Writing and Hypertext: PR: Grade of C (2.0) or better required in ENC 3211 or ENC 3241. Theories of electronic literacy and information to develop a more critical sensibility regarding hypertext. Occasional.

ENC 4415 CAH-ENG 3(3,0) Digital Rhetorics and The Modern Dialectic: PR: ENC 1102. This online course explores the development of digital/hypertext rhetoric through a close reading and analysis of formative rhetorical texts, modern American fiction and films. Fall, Spring.

ENC 5216 CAH-ENG 3(3,0) Editing Professional Writing: PR: Graduate status or senior standing or C.I. The study of major issues in editing, including levels of edit, grammar and mechanics, visuals, style, and the impact of technology. Fall, Spring.

ENC 5225 CAH-ENG 3(3,0) Theory and Practice of Document Usability: PR: Graduate status or senior standing or C.I. Presents theory and practice of how document usability is assessed and improved. Occasional.

ENC 5237 CAH-ENG 3(3,0) Writing for the Business Professional: PR: Graduate status or senior standing or C.I. A study of the major document designs for professionals in business, focusing on audience, purpose, style, arrangements, and content. Fall, Spring.

ENC 5245 CAH-ENG 3(3,0) Teaching Professional Writing: PR: Graduate status or senior standing or C.I. Prepares students to determine writing needs of professional discourse communities, analyze those needs, and design in-house or freelance writing programs to address those needs. Occasional.

ENC 5276 CAH-ENG 3(3,0) Writing/Consulting: Theory & Practice: PR: Graduate status or senior standing or C.I. The trade and practice of assessing and responding to writing as a collaborator (as opposed to evaluator). Occasional.

ENC 5291 CAH-ENG 3(3,0) Developing Professional Writing Projects: PR: Graduate status or C.I. Developing Professional Writing is a course in which students learn the basics of planning writing projects, including scheduling, budgeting, collaborative writing, production, and problem solving. Occasional.

ENC 5337 CAH-ENG 3(3,0) Modern Rhetorical Theory: PR: Graduate status or senior standing or C.I. With special attention to the rhetor-audience relationship, the course studies history and practice of modern rhetorical theory. Spring.
ENC 5705 CAA-ENG 3(2,1)
Theory and Practice in Composition: PR: Graduate status or senior standing or C.I. Intensive study of theories of composition, with practical experience in the writing laboratory and in composition classes. Spring.

ENC 5745 CAA-ENG 3(3,0)
Teaching Practicum: PR: ENC 5705, graduate status or senior standing, or C.I. To supplement and deepen theoretical and practical experiences during their first teaching semester, GTA’s will participate in staff development and individual conferences with their mentors. Occasional.

ENC 5930 CAA-ENG 3(3,0)
Current Topics in Professional Writing: PR: Graduate status or C.I. Students will learn how to produce texts for specialized fields of discourse, including the legal and legal profession, as well as for general publication. Occasional.

ENG 3010 CAA-ENG 3(3,0)
Practical Criticism: PR: Grade of C (2.0) or better required in ENC 1102. Student evaluation of selected fiction, poetry, and drama through practical exercises in literary criticism. Occasional.

ENG 3014 CAA-ENG 3(3,0)
Theories and Techniques of Literature Study: PR: Junior standing, or C.I., and C (2.0) or better required in ENC 1102. Techniques of analysis, theories of interpretation, and application of critical approaches to selected works. Fall, Spring.

ENG 3073 CAA-ENG 3(3,0)
Cultural Studies Literature: PR: ENC 1102. The theoretical and cultural developments over time that call for broadening the applications of literary analysis to produce “cultural studies.” Occasional.

ENG 4114 CAA-ENG 3(3,0)
Literature and Film: PR: ENC 1102 and ENG 3014. The differences in emphasis, medium, and technique in selected novels and their film adaptations. Occasional.

ENG 5009 CAA-ENG 3(3,0)
Methods of Bibliography and Research: PR: Graduate status or senior standing or C.I. Bibliographical, library and systematic approaches to research at the graduate level in language and literature. Fall.

ENG 5018 CAA-ENG 3(3,0)
Literary Criticism: PR: Graduate status or senior standing or C.I. Historical survey of major critics from classical antiquity to the modern era. Spring.

ENL 2012 CAA-ENG 3(3,0)
English Literature I: PR: Grade of C (2.0) or better required in ENC 1102. Beowulf to 1798. Fall, Spring.

ENL 2022 CAA-ENG 3(3,0)
English Literature II: PR: Grade of C (2.0) or better required in ENC 1102. From 1798 to 1914. Fall, Spring.

ENL 3951 CAA-ENG 3(3,0)
Orlando Shakespeare Festival: PR: ENC 1102. Involvement in theory and practice of Shakespeare’s art by performance-oriented study and participation in the Orlando Shakespeare Festival’s pre-season activities and productions. Occasional.

ENL 3951H CAA-ENG 3(3,0)
Orlando Shakespeare Festival Honors: PR: ENC 1102 and permission of Honors. Honors theory and practice of Shakespeare’s art by performance-oriented study and participation in the Orlando Shakespeare Festival’s pre-season activities and productions. Occasional.

ENL 4101 CAA-ENG 3(3,0)
English Novel: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Analysis of major English novels. Occasional.

ENV 5116C ECS-CCE 3(2,3) Air Pollution Monitoring: PR: C.J. Air Pollution sampling techniques, equipment, and monitor siting. Emphasis on theory and direct applications in air pollution monitoring. Occasional. M&S fee: $15.00

ENV 5334 ECS-CCE 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. Occasional.

ENV 5335 ECS-CCE 3(3,0) Hazardous Waste Management: PR: ENV 3001 or C.I. Engineering planning and analysis associated with handling, storage, treatment, transportation, and disposal of hazardous wastes. Occasional.

ENV 5356 ECS-CCE 3(3,0) Solid Waste Management: PR: ENV 3001. Engineering design, planning, and analysis problems associated with storage, collection, processing, and disposal of solid wastes. Fall.

ENV 5410 ECS-CCE 3(3,0) Drinking Water Treatment: PR: ENV 4561. Drinking water treatment using existing and newly developed processes. Fe, Mn, As, NO3, DBP3, SOCs and other contaminants using oxidation, membranes, ion exchange, precipitation, sorption, and other processes. Occasional.

ENV 5505 ECS-CCE 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 and ultimate disposal. Occasional.

ENV 5517 ECS-CCE 3(3,0) Engineering Chemical and Biological Processes: CR: ENV 4561 (or equivalent) or C.I. Coverage of equilibrium/acyclic chemistry, softening and coagulation, and disinfection of water. Microbiology and biochemistry as applied to activated sludge system design. Fall.

ENV 5636 ECS-CCE 3(3,0) Environmental and Water Resources Systems Analysis: PR: ENV 3001 or C.I. Discussion of environmental and water resources systems with the emphasis on cost-effectiveness, pollution prevention, and sustainability to aid in environmental engineering decision-making. Occasional.


EPH 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. Occasional.


ESE 4942 ED-TLP 1(1,0) Internship II Seminar: PR: Internship in the specific discipline. CR: Internship II in the specific discipline. Culminating seminar emphasizing current classroom management and assessment issues, as they relate to teaching in the secondary grades. Fall, Spring.

ESE 4943 ED-TLP 7-12(0,35) Internship II — Secondary: PR: ESE 3940 or EDE 3942. Student teaching in a secondary school under the direction of a certified classroom teacher. Scheduled concurrent seminars. Graded SU or Letter grade. Occasional.


ESI 4234 ECS-IEMS 3(3,0) Quality Engineering: PR: STA 3032. Basic concepts and techniques of quality control; applications of statistics in industrial research; design of quality assurance systems; reliability engineering. Fall.

ESI 4312 ECS-IEMS 3(3,0) Operations Research: PR: STA 3032. Introduction to linear, non-linear, and dynamic programming. Decision analysis, random processes, and queuing. Course covers theory through application and implementation of results. Fall.

ESI 4321 ECS-IEMS 3(3,0) Quantitative Techniques in Industrial Engineering: PR: ESI 4312. Extension of ESI 4312 with primary emphasis on Operations Research and statistical applications to industri-al engineering problems. Even Fall.

ESI 4523C ECS-IEMS 3(2,3) Systems Simulation: PR: STA 3202, EGN 3211 or high level programming language. Methods and procedures for simulating large-scale systems with digital computers. High level programming and simulation languages are used. Spring. M&S fee: $20.00

ESI 4628C ECS-IEMS 3(2,3) Industrial Engineering Applications of Computers: PR: EGN 3211 or high level programming language. Survey of microcomputer methods in industrial engineering practice. Topics include: spreadsheets, databases, expert systems, and project management. Lab exercises. Fall. M&S fee: $20.00

ESI 5219 ECS-IEMS 3(3,0) Engineering Statistics: PR: C.J. Discrete and continuous probability distributions, hypothesis testing, regression, non-parametric stats and ANOVA. Fall, Spring.

ESI 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. Odd Fall.

ESI 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 (DO-178), software reliability, reliability in design, and electronic systems reliability. Fall.

ESI 5306 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. Fall.

ESI 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. Occasional.

ESI 5419C ECS-IEMS 3(2,2) Engineering Applications of Linear and Nonlinear Optimization: PR: ESI 4512 or ESI 5236. Course covers linear and nonlinear optimization applications in production planning, staffing, engineering design, distribution networks, and other engineering areas. Focuses on practicing OR analysts. Odd Fall. M&S fee: $45.00

ESI 5531 ECS-IEMS 3(3,0) Discrete Systems Simulation: PR: STA 3032. Methods for performing discrete system simulation, including network modeling, will be treated. Spring.

EST 3211 ECS-ENT 3(3,0) Wave Photonics: PR: EST 3222, and EET majors. Wave properties of light, interaction with different media, and photonic technologies and systems based on wave nature of light. Spring.

EST 3213 ECS-ENT 3(3,0) Photonics Simulation: PR: EST 3222. The behavior of light in standard optical systems consisting of both refractive and reflective light. Begin with general optic principles and end with system design. Not open to Physics majors or minors. Fall.

EST 3222 ECS-ENT 3(3,0) Photonics Technology: PR: PHY 2053C, PHY 2054C, MAP 3401, MAC 2312, and MAC 2523 or MAC 2311. Course will introduce engineering technology students to the field of photonics. Light properties, optics, lasers, systems. Fall.

EST 3543C ECS-ENT 3(2,2) Programmable Logic Applications and Device Integration: PR: MAC 3105, EET 2085C, or equivalent. Built on knowledge of logic fundamentals programming technologies, integrated circuits, and number systems to operate and test systems using programmable logic protocol. Fall. Spring.

EST 4225 ECS-ENT 3(3,0) Manufacturing of Photonics: PR: EST 3222. Manufacturing processes and practices of photonic devices and systems. Tolerance studies, manufacturing lines, tests, measurements, and other topics related to low and high volume photonics manufacturing. Fall.

EST 4227 ECS-ENT 3(3,0) Photonic Sensors and Devices: PR: EST 3213, EST 3211. How light is converted to electronics to incorporate an electronic system. Standard means of detecting light such as photodiodes and charge-coupled devices will be covered. Spring.


EST 4256 ECS-ENT 3(3,0) Photonic Communications: PR: EST 4227, EST 4236. The use of light as media for transmission of information. Modulation techniques, light transmission through different mediums, and detection and demodulation. Spring.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Offered</th>
<th>Description</th>
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<tbody>
<tr>
<td>ETI 4186C</td>
<td>Applied Reliability: ETL 3116; Practical application of reliability concepts and analysis applicable to the design, production and logistics phases of systems and system components</td>
<td>Odd Spring</td>
<td>Fundamentals of quality assurance, testing, production, and testing.</td>
</tr>
<tr>
<td>ETI 4187C</td>
<td>Applied Logistics: ETL 3116 &amp; C.I. Introduction to logistics. Emphasis on practical applications. Includes systems engineering, cost systems, reliability, maintainability, system functional analysis, logistics support analysis, life cycle cost analysis.</td>
<td>Odd Spring</td>
<td>Logistics concepts and application applicable to design, production and logistics phases.</td>
</tr>
<tr>
<td>ETI 4218C</td>
<td>Computer Numerical Controls - Machining Applications: ETL 3305C. Theory of methods and concepts for machining, computer numerical control programs, types of operations, cutting tools, machine tools, and electrical discharge machines.</td>
<td>Fall &amp; Spring</td>
<td>Numerical control programs, types of operations, cutting tools, machine tools, and electrical discharge machines.</td>
</tr>
<tr>
<td>ETC 4214C</td>
<td>Construction Materials and Methods: CR: ETG 3541. Construction principles, details, materials and methods used as related to the construction of buildings. Fall.</td>
<td>Fall</td>
<td>Construction principles, details, materials and methods used as related to construction of buildings.</td>
</tr>
<tr>
<td>ETC 4241C</td>
<td>Construction Estimating: MAC 1114 &amp; EG 1111C or equivalent &amp; ETC 4241C. Techniques of making estimates and computations of materials, labor, equipment, overhead costs and profits.</td>
<td>Fall</td>
<td>Techniques of making estimates and computations of materials, labor, equipment, overhead costs and profits.</td>
</tr>
<tr>
<td>ETC 4242</td>
<td>Construction Contracts and Specifications: The role of construction contracts, architectural specifications, product specifications, industry standards and building codes in the process of building construction. Spring.</td>
<td>Spring</td>
<td>The role of construction contracts, architectural specifications, product specifications, industry standards and building codes in the process of building construction.</td>
</tr>
<tr>
<td>ETC 4243</td>
<td>Building Systems: PHY 2053C, EET 3085 or equivalent.</td>
<td>Spring</td>
<td>Building systems: PHY 2053C, EET 3085 or equivalent.</td>
</tr>
</tbody>
</table>
ETM 4331C ECS-ENT 4(3,2) Applied Fluid Mechanics: PR: MAC 2253 or MAC 2311; PHY 2053C or equivalent. An introduction to the basic concepts of hydromechanics and hydromechanical devices; fluid statics, flow of ideal fluids, continuity of mass, impulse and momentum principles, conservation of energy, flow of fluid in pipes, etc. Occasional.


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. Occasional.

EUH 2000 CAH-HIST 3(3,0) Western Civilization I: A survey of western civilization from ancient to 1648. Fall, Spring.


EUH 2001 CAH-HIST 3(3,0) Western Civilization II: A survey of western civilization from 1648 to present. May be taken before EUH 2000. Fall, Spring.


EUH 3122 CAH-HIST 3(3,0) Medieval Society and Civilization: PR: EUH 2000 and 2001 or C.I. Fall, Spring.

EUH 3124 CAH-HIST 3(3,0) The Crusades: PR: EUH 2000 and EUH 2001, or C.I. The phenomenon of crusading in medieval Europe and the Middle East, including theories of ‘just war’ and jihad. Even Spring.

EUH 3142 CAH-HIST 3(3,0) Renaissance and Reformation: PR: EUH 2000 and 2001 or C.I. Influence of Renaissance humanism on arts, letters, and politics; Luther and Protestantism; the Catholic Church. Odd Fall.

EUH 3235 CAH-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. Occasional.

EUH 3242 CAH-HIST 3(3,0) Modern Europe and the First World War: A survey of the impact of the democratic institutions, education, transportation, housing, health, mass communications, entertainment, women, and warfare. Occasional.

EUH 3281 CAH-HIST 3(3,0) Second World War and Rebirth of Europe: PR: EUH 2000 and 2001 or C.I. Origins of World War II; Hitler’s “New Order” and resistance movements; Cold War, the Stalization of Russia; Sovietization of East Central Europe; Western reconstruction, and prosperity. Occasional.

EUH 3315 CAH-HIST 3(3,0) History of Modern Spain: PR: Modern European History (19th-20th century). The evolution of Modern Spain through its key institutions, cultural as well as social movements, and impact of political and intellectual trends, 1700-Present. Occasional.


EUH 3431 CAH-HIST 3(3,0) History of Modern Italy: PR: EUH 2001. The history of modern Italy from the origins of national unification through the post-World War II era. Occasional.

EUH 3431H CAH-HIST 3(3,0) Honors History of Modern Italy: PR: EUH 2001 and consent of Honors. The history of modern Italy from the origins of national unification through the post-World War II era, with honors content. Occasional.

EUH 3451 CAH-HIST 3(3,0) History of Modern France: PR: EUH 2001, EUH 2242 or C.I. The course traces the evolution of France through the study of French political thought, institutional development, social movements, and international roles from 1789-present. Occasional.

EUH 3531 CAH-HIST 3(3,0) Medieval Ireland: PR: EUH 2000 and EUH 2001 or C.I. Ireland’s historical and cultural development from 1129 to 1667. Occasional.

EUH 3536 CAH-HIST 3(3,0) Early Modern Ireland: PR: EUH 2000 and EUH 2001 or C.I. Ireland’s historical and cultural development from 1667 to 1800. Occasional.


EUH 3651 CAH-HIST 3(3,0) War and Society: Evolution of weapons, tactics, strategy; role, social status, recruitment of soldiers, influence of military on governments; and international efforts to preserve peace. Occasional.

EUH 4284 CAH-HIST 3(3,0) Fascism and the Totalitarian Dictatorships: PR: EUH 2000 and 2001 or C.I. Totalitarian ideologies, institutions, and practices in Lenin’s and Stalin’s Russia. Mussolini’s Italy, and Hitler’s Third Reich; fascist movements in the non-totalitarian states. Occasional.


EUH 4465 CAH-HIST 3(3,0) Hitler’s Third Reich: PR: EUH 2000 and 2001 or C.I. German nationalism and militarism; World War I and Versailles Treaty; the Weimar Republic and the rise of the Nazis; Second World War, division and recovery. Occasional.

EUH 4500 CAH-HIST 3(3,0) English History to 1485: PR: EUH 2000 and 2001 or C.I. Occasional.

EUH 4501 CAH-HIST 3(3,0) English History: 1485-1815: PR: EUH 2000 and 2001 or C.I. Occasional.

EUH 4502 CAH-HIST 3(3,0) British History: 1815-Present: PR: EUH 2000 and 2001 or C.I. Occasional.

EUH 4571 CAH-HIST 3(3,0) History of Russia to 1801: PR: EUH 2000 and 2001 or C.I. The history of Russia from its origins to 1801; the rise of Russian nationalism and militarism; the development of Muscovite expansionism and absolutism; Time of Troubles; the Peter the Great and Catherine; Role of the Orthodox Church. Occasional.

EUH 4574 CAH-HIST 3(3,0) History of Russia: 1801-1917: PR: EUH 2000 and 2001 or C.I. The history of Russia from its origins to 1801; the rise of Russian nationalism and militarism; the development of Muscovite expansionism and absolutism; Time of Troubles; the Peter the Great and Catherine; Role of the Orthodox Church. Occasional.

EUH 4582 CAH-HIST 3(3,0) 20th Century Russian Diplomatic History: PR: C.I. Russian diplomatic history from the signing of the Entente Cordiale to the aftermath of the Cold War. Occasional.

EUH 4610 CAH-HIST 3(3,0) Women in European Society: From Medieval to Modern: PR: Junior standing or C.I. The course examines the changing situation of women in Europe from the Middle Ages to the twentieth century. Occasional.

EUH 4620 CAH-HIST 3(3,0) European Great Powers: 1815-1914: PR: EUH 2000 and 2001 or C.I. Congress of Vienna, Metternich's system of European great powers, the alliances, and the outbreak of World War I. Occasional.


EUH 5247 CAH-HIST 3(3,0) Colloquium in Europe from 1919-1939: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in European history between 1919 and 1939. Occasional.

EUH 5285 CAH-HIST 3(3,0) Colloquium in Europe Since World War II: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in European history since World War II. Occasional.

EUH 5371 CAH-HIST 3(3,0) Colloquium in Spanish History: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in Spanish history. Occasional.

EUH 5415 CAH-HIST 3(3,0) Rome and Early Christianity: PR: Graduate standing or C.I. Current trends in historical literature in Christianity from its development as a distinct religion to its relations with and eventual "triumph" within the Roman Empire. Occasional.
Colloquium: British History: PR: Graduate status or senior standing or C.I. Selected topics in British history. May be repeated for credit only when course content is different. Occasional.

Colloquium in Soviet Russia: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics in Russian history, 1911-present. Occasional.

Colloquium in Czarist Russia: PR: Graduate status or senior standing or C.I. Selected topics on the literature of Russia under the Czars prior to 1917. Occasional.

Colloquium: European Intellectual History: PR: Graduate status or senior standing or C.I. Reading and class discussion of the literature on selected topics of European intellectual history. Occasional.

Seminar in Conservation Issues: PR: Graduate status or senior standing or C.I. Contemporary topics stressing a broad base of conservation issues will be the focus of this seminar series. May be repeated for credit only when course content is different. Occasional.

Professional Role of the Vocational Teacher: PR: EVT 3371 or C.I. Occasional.

Course Construction in Health Occupations Education: PR: EVT 3365 or C.I. Planning and preparation of materials, managing the laboratory and involvement in appropriate Vocational Student Organizations. Clinical instruction related to vocational education and industry training. Occasional.

General Methods/Testing Evaluation in Vocational Education: General teaching methods, testing and evaluation. Techniques specific to Vocational Education and Industry Training. Odd Fall.


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. Occasional.

Special Needs of Vocational Students: PR: EVT 3365 or C.I. Achievement of teacher competency in meeting the special needs of the handicapped, culturally different, slower learner, those with basic skill deficiencies, and those in non-traditional programs. Spring.


Curriculum Development Techniques for Industry Training: The practical application of fundamental knowledge, important skills, alternative analysis methods, and the critical elements of the trainers analysis tasks. Spring.
Intermediate Animation: PR: Animation majors only, FIL 3286C, and a satisfactory portfolio review or C.I. Focus on 3D computer modeling and animation systems. Hands-on exercise on the type of high-end animation systems used in the film industry. May be repeated for credit. Even Fall. Spring. M&S fee: $45.00.

Film 3300C CAH-FILM 3(3,1)
Film Documentary: PR: Film or Cinema Studies major, FIL 3201C or FIL 3229. The uses and analysis of the non-fiction film. Fall. M&S fee: $15.00.

Film 3304C CAH-FILM 3(1,3)
Documentary Vision: PR: Film major and FIL 3201C. Styles and approaches to documentary filmmaking, with emphasis on making short, personal films. Spring.

Film 3307 CAH-FILM 3(3,0)
Doodorama: PR: FIL 2480. Techniques to dramatize real-life events and persons, with emphasis on representation, adaptation and ethics. Occasional.

Film 3309 CAH-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. Fall, Spring.

Film 3401 CAH-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. Fall.

Film 3402 CAH-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 cinema history from 1946 to the present. Spring.

Film 3410 CAH-FILM 3(3,0)
History of Animated Films I: 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. Even Fall.

Film 3412 CAH-FILM 3(4,0)

Film 3418 CAH-FILM 3(3,0)

Film 3455C CAH-FILM 6(2,4)
Film Landscapes: Story, Image and Production Design: PR: FIL 2400. The use of landscape in film and its importance to the art of production design. Fall.

Film 3503C CAH-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. Fall. M&S fee: $10.00.

Film 3504C CAH-FILM 3(3,1)
Film Theory and Criticism II: PR: FIL 3503C and Film or Cinema Studies major. Major film theories from Second World War period to present. Spring. M&S fee: $10.00.

Film 3510 CAH-FILM 3(3,0)
World Cinema Traditions: PR: Cinema Studies or Film major, FIL 3504C. The relationship among film, history, and culture in selected Asian, African, Latin American, and Middle Eastern countries. Fall, Spring.

Film 3511 CAH-FILM 3(3,0)

Film 3512 CAH-FILM 3(3,0)

Film 3513 CAH-FILM 3(3,0)

Film 3514 CAH-FILM 3(3,0)

Film 3520 CAH-LANG 3(3,0)
Italian Film: This course attempts to stimulate and/or increase the interest of students in Italian cinema as an art form with the director playing the key role. Films by most outstanding Italian movie directors will be analyzed from a social, economic, and historical point of view. Occasional.

Film 3521 CAH-LANG 3(3,0)
French Film: The study of French cinema as an art form and the key role of the director. Films are analyzed from structural, social, economical, and historical perspectives with attention to their relationship with French literature. Taught in English. Occasional.

Film 3522 CAH-LANG 3(3,0)
German Film: PR: C.I. Exploration of the form and context of German film during different time periods in relation to other aspects of culture and to sociopolitical structures at the time. Occasional.

Film 3531 CAH-FILM 3(3,0)

Film 3534 CAH-FILM 3(3,0)
Sound Design for Film I: PR: Film BFA, World Cinema, or Digital Media major. Technical and aesthetic aspects of production and post-production sound recording, editing, and mixing for film. Fall, Spring.

Film 3542 CAH-FILM 3(3,0)
Cinema Criticism Writing: PR: ENC 1102, FIL 2400, FIL 3401, FIL 3402 and FIL 3503C. Modes of cinema criticism. Occasional.

Film 3551 CAH-FILM 3(3,0)
American Cinema: PR: Film major. Lectures, films and forums designed to provide awareness of styles, images, and myths in cinema that influence or reflect our culture. Spring.

Film 3625 CAH-DIG 3(3,0)
Interactive Entertainment: PR: FIL 3201C or DIG 2000 and a minimum grade of “B” (3.0) or better in DIG 3001, and Film or Digital Media major. Ways to apply diverse skills of film making to digital media, non-linear story telling, virtual reality, video games and non-traditional education and military simulation. Fall, Spring.

Film 3871 CAH-FILM 3(3,0)
The American Film Artist: PR: FIL 2400. Analysis of a major American filmmaker’s style, vision and works; how these evolved and their impact on film and the culture. May be repeated for credit. Fall. M&S fee: $10.00.
Craft, techniques, and design for film production, including features, films and forums designed for students in the film industry. The class is taught by faculty and guest speakers from the film industry. Graded S/U. May be repeated for credit. Fall, Spring.

Adaptation: PR: FIL 2107. The process of adapting scripts from other sources. The investigation of the legalities of adaptation, analysis of existing models, and written adaptations. Occasional.

Feature/TV Writing I: PR: Film major and FIL 3124. Writing workshop, examination of mythic storytelling, and ethics of scripting. Fall.

Feature/TV Writing II: PR: Film major, FIL 4111C. Advanced writing workshops, principles and methods of adaptation and reader's coverage. Spring.

Interactive Writing I: PR: Junior Standing, Film major. FIL 3124 or Digital Media major. Writing workshop for experienced scriptwriters, cold readings, preparing calling card script, marketing scripts and funding sources. Occasional.

Interactive Writing II: PR: Film major and FIL 4113C. Advanced writing and development of short interactive narratives as well as examination of non-traditional structures as applied to interactive writing. Occasional.

Motion Picture Genre: PR: FIL 2400. Analysis and evaluation of films, including their major genres, directors, styles, and periods. Even Fall. M&S fee: $10.00.

Intermediate Film Production: PR: Film major, FIL 3201C. Advanced exploration of the aesthetic and technical facets of filmmaking. Occasional. M&S fee: $45.00.

Capstone I: PR: FIL 3125 or C.I. Intensive tutorial guidance, instruction and evaluation of final film projects from initial concept through production. May be repeated for credit. Graded S/U. Fall. M&S fee: $45.00.

Episodic Production: PR: Film or Animation Majors. Episodic production techniques. Occasional.

Cinematography II: PR: Film major, FIL 3201C, FIL 2200. Advanced principles and practices of cinematography. Spring. M&S fee: $45.00.

Capstone II: PR: Film major and FIL 4203C. Intensive tutorial guidance, instruction and evaluation of final film projects in post production. May be repeated for credit. Spring. M&S fee: $45.00.

Sound Design III: PR: FIL 4535C. Advanced aspects of sound mixing and sound editing using advanced protocols and digital format. Occasional.

Design for Film: PR: Film major, FIL 3201C, FIL 4202C. Analysis of visual structure of film. Specific problems in art direction. Fall.

Special Problems in Film Design: A series of exercises in craft, techniques, and design for film production, including animation. Odd Spring. M&S fee: $20.00.


Non-Linear Editing: PR: Film major and FIL 3201C. Provide basic working knowledge of AVID editing system, to edit assigned projects, give basic understanding of editorial styles and techniques in film storytelling. Occasional. M&S fee: $45.00.

Advanced Animation: PR: Animation majors only, FIL 3286C, FIL 3287C, and a satisfactory portfolio review or C.I. Advanced 3D modeling and animation techniques. Working in small production teams, students will create short animated segments using a high-end 3D animation system. May be repeated for credit. Fall, Odd Spring. M&S fee: $45.00.

Animation Workshop: PR: Animation majors only, FIL 3286C, FIL 3287C, FIL 4288C, and a satisfactory portfolio review or C.I. Production level course in computer animation that emphasizes all phases of the commercial production process, including storyboard, budgets, client relations, and post-production. May be repeated for credit. Fall, Odd Spring. M&S fee: $45.00.

Editing II: PR: Film major and FIL 2274C. Theory, techniques and practices in picture editing. Fall. M&S fee: $45.00.

Documentary Workshop II: PR: FIL 4301C. Advanced documentary projects for community groups, heritage organizations, non-profit agencies using film, video and digital media. Fall.


Film Theory/Film Production: PR: Junior standing or C.I. Non-narrative filmmaking and periods.

Film Colloquium: PR: Admission to Film and Digital Media master's program or C.I. Research methodology for the study and production of Feature films. Fall.

Transmedia Story Creation: PR: Admission to Film and Digital Media master's program or C.I. Repurposing of traditional stories into new forms and environments. Fall.

Visual Storytelling: PR: Admission to Film and Digital Media master's program or C.I. Visual story-telling ranging from storyboard to classic structural paradigms for feature film scripts. Fall.

Film Production Management: PR: Film major, FIL 3201C. Production, budgeting, script breakdown, construction of production boards, scheduling, location scouting, and crew procurement. Spring.

Personal Finance and Investments: PR: Open to all students (majors, minors, and non-majors). An overview of personal and family financial planning. Topics include housing, investments, insurance, retirement planning, estate planning, financial services, consumer credit, and tax planning. Fall, Spring.

Financial Markets: PR: FIN 3403: open to majors or minors who require this course. The role of short and long-term financial markets and financial institutions in capital formation and allocation. Theories and mathematics of interest rates. Fall, Spring.
GEB 3815  BA-MAN  3(3,0)  Employee Training for Non-Business Majors: PR: MAN 3025. Employee training needs and practices as performed by supervisors and managers under the direction of organizational specialists. Designed for non-business majors. Occasional.

GEB 4111  BA-MAN  3(3,0)  New Venture Finance: PR: FIN 3403. Provides hands-on processes for developing financial information necessary such as budgets and pro forma financial statements to start up a new venture. Odd Fall, Even Spring.

GEB 4117  BA-MAN  3(3,0)  Business Plan Preparation: PR: MAN 4802. Develop a new venture plan evolving from an original concept through a process that incorporates all the elements of a professionally written business proposal. Fall, Spring.

GEB 4358  BA-FIN  3(3,0)  International Negotiations and Transactions: PR: Finance major, Junior standing and admission to CBA. Focuses on providing an understanding of the concepts and skills required for international negotiations and transactions. Occasional.


GEB 4363  BA-FIN  3(3,0)  Export and Import Management: PR: Finance major, Junior standing and admission to CBA. Focuses on the management of export/import business and provides students with knowledge about international trade. Occasional.

GEB 5941  BA-BUS  1.5(1,5)  Professional Business Practicum: PR: Acceptance in the graduate program. The practicum is to provide a professional business work experience for students entering the graduate program. The practicum is to provide a professional business work experience for students entering the graduate program. Occasional.

GEO 1200  ECS-CHE  3(3,0)  Physical Geography: Basic physical elements of geography, including climate, landforms, soils, natural vegetation, minerals, and their integrated patterns of world distribution. Fall, Spring.

GEO 2370  ECS-CHE  3(3,0)  Resources Geography: Analysis of basic principles and problems associated with development, use, conservation, and management of natural resources, with special emphasis on the United States. Fall, Spring.

GEO 3471  COS-POLS  3(3,0)  World Political Geography: Analysis of factors which affect power relations among nations, including area, location, political styles, ethnic divisions, and the politics of energy. Fall, Spring.

GER 1005  CAH-MUSIC  1(0,1)  German Diction: This course is especially designed for music and voice students, with an emphasis on musical terms, German songs, and opera libretti. Odd Spring.

GER 1120  CAH-LANG  4(4,1)  Elementary German Language and Civilization I: Introduces the student to German culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Fall, Spring.

GER 1120H  CAH-LANG  4(4,1)  Honors Elementary German Language and Civilization I: PR: Permission of Honors. Introduces the student to German culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Honors level content. Occasional.

GER 1121  CAH-LANG  4(4,1)  Elementary German Language and Civilization II: PR: GER 1120 or equivalent. Continuation of GER 1120. Fall, Spring.

GER 1121H  CAH-LANG  4(4,1)  Honors Elementary German Language and Civilization II: PR: GER 1120H or equivalent and permission of Honors. Continuation of GER 1120H, with honors-level content. Occasional.

GER 2200  CAH-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. Fall, Spring.

GER 2201  CAH-LANG  3(3,1)  Intermediate German Language and Civilization II: PR: GER 2200 or equivalent. Continuation of GER 2200 with emphasis on German civilization. Spring.

GER 2210  CAH-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. Occasional.

GER 2240  CAH-LANG  3(3,0)  German Conversation: PR: GER 2201 or equivalent. Development of skills in conversation and comprehension through practice. Occasional.

GER 2270  CAH-LANG  6(6,0)  Intermediate German Study Abroad: PR: GER 1121 or equivalent. Intermediate German language and culture taught in the native environment. Occasional.

GER 2271  CAH-LANG  2(0)  Modern German Civilization Abroad I: PR: One year of College-level German. Key elements of German life: its artistic, intellectual, scientific, and spiritual contributions to the world via guest lecturers, readings, films, and other media. In German. Occasional.

GER 3102  CAH-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. Occasional.

GER 3272  CAH-LANG  2(0,2)  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. Occasional.

GER 3420  CAH-LANG  3(3,0)  Intensive German Composition: PR: GER 2201 or equivalent. Development of skills in composition. Occasional.

GER 3440  CAH-LANG  3(3,0)  Business German I: PR: GER 2200. Introduction to German business language and practices. Occasional.

GER 3440H  CAH-LANG  3(3,0)  Business German II: PR: GER 3440. Continuation of Business German I. Occasional.

GER 3470  CAH-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. Occasional.

GER 3760  CAH-LANG  3(3,0)  Advanced German Oral Communication: PR: GER 2201 or equivalent. Vocabulary building with systematic training in dictation and locution. Speeches and oral presentations as well as production and delivery of real-life dialogues. Even Fall.

GER 3780  CAH-LANG  3(3,0)  German Phonetics and Diction: PR: GER 2240. The fundamental principles of German pronunciation. Occasional.

GER 4422  CAH-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. Occasional.

GER 4510  CAH-LANG  3(3,0)  Life and Culture in Nazi Germany: PR: C.I. Confrontation with the development of national socialist ideas and their realization in everyday life and culture. Given in German. Occasional.

GER 4520  CAH-LANG  3(3,0)  Modern Germany: PR: Given in German. An introduction to the history of postwar Germany from the two Germanies to reunification and today’s Germany. Occasional.

GEW 3100  CAH-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. Occasional.

GEW 3101  CAH-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. Occasional.

GEW 3370  CAH-LANG  3(3,0)  Short Story: PR: GER 2201 or equivalent. German short prose works of the 19th and 20th centuries. Occasional.

GEW 3480  CAH-LANG  3(3,0)  German Post-War Literature: PR: GER 2201. This course examines the works of German, Austrian and Swiss writers after World War II. Occasional.

GEW 4482  CAH-LANG  3(3,0)  German Children’s Literature: PR: GER 2200. A look into the history of German children’s literature with a concentration on works after World War II. Occasional.

GEW 4521  CAH-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. Occasional.

GEY 3001  HPA-SOWK  3(3,0)  Gerontology: An Interdisciplinary Overview: PR: Junior standing or C.I. Study of aging from an interdisciplinary perspective that bridges social and behavioral sciences, nursing, social work, allied health, and natural sciences. May be repeated for credit. Fall.

GEY 5007  CON-NURS  3(3,0)  Women and Healthy Aging: PR: Graduate standing or senior undergraduate. The examination of the health promotion opportunities and bi-psycho-social challenges of women as they age. Spring.

GEY 5600  ED-TLP  3(3,0)  Physiology of Aging: PR: BSC 2010C or PCB 3703C or PET 4531C or equivalent. The purpose of this course is to develop the student’s understanding of the effects of human aging on various body systems. Occasional.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>GRE 5648</td>
<td>GPA-SOWK</td>
<td>3(3,0)</td>
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<tr>
<td>GIS 3043C</td>
<td>GIS for Environmental Studies</td>
<td>3(2,2)</td>
<td>C.S. Geographic Information Systems (GIS) technology for environmental analysis. GIS theory with training using ArcGIS, including environmental analysis and facility siting studies. Odd Fall.</td>
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<tr>
<td>GIS 4035C</td>
<td>ECS-CEE</td>
<td>3(2,2)</td>
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<tr>
<td>GLY 1030</td>
<td>Geology and its Applications</td>
<td>3(3,0)</td>
<td>Geologic principles, applications, and hazards including gemstones, rock cycle, mollusca, invertebrates, vertebrates, fossil fuels, groundwater, sinkholes, beach erosion, landslides, earthquakes, tidal waves, volcanism. Fall, Spring.</td>
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<tr>
<td>GRA 2101C</td>
<td>CAH-ART Introduction to Computer Art</td>
<td>3(2,4)</td>
<td>ART 2201C or C.I.</td>
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<tr>
<td>GRA 2101H</td>
<td>CAH-ART Honors Introduction to Computer Art</td>
<td>3(2,4)</td>
<td>ART 2820 or C.I.</td>
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<tr>
<td>GRA 2140C</td>
<td>CAH-ART Computer Graphic Design</td>
<td>3(2,4)</td>
<td>ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Problems involving the use of computer graphic systems for electronic publication. Odd Fall. M&amp;S fee: $15.00</td>
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<tr>
<td>GRA 2190C</td>
<td>CAH-ART Design in Advertising</td>
<td>3(2,4)</td>
<td>ART 2201C. Principles and techniques. Not open to art majors specializing in graphic design. Intended for visual arts education majors and general university elective. Occasional. M&amp;S fee: $5.00</td>
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<tr>
<td>GRA 3100C</td>
<td>CAH-ART Intermediate Graphic Design I</td>
<td>3(2,4)</td>
<td>ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. Methods related to studio projects in graphic design. Fall. M&amp;S fee: $15.00</td>
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<tr>
<td>GRA 3112C</td>
<td>CAH-ART Intermediate Graphic Design II</td>
<td>3(2,4)</td>
<td>ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, ART 3100C, and a satisfactory portfolio review or C.I. Further development of studio techniques and problems in graphic design with emphasis on digital prepress. Spring. M&amp;S fee: $43.50</td>
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<tr>
<td>GRA 3113C</td>
<td>CAH-ART Type &amp; Design</td>
<td>3(2,4)</td>
<td>ART 2201C, ART 2203C, ART 2300C, ART 2301C. A survey of type, calligraphy and letter forms and their appropriate use as subject matter for graphic design and publication. Fall, Odd Spring. M&amp;S fee: $15.00</td>
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<tr>
<td>GRA 3151C</td>
<td>CAH-ART Illustration</td>
<td>3(2,4)</td>
<td>ART 2201C, ART 2203C, ART 2300C, ART 2301C. Pictorial and representational illustration using various media and techniques. Occasional.</td>
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<tr>
<td>GRA 3801C</td>
<td>CAH-ART Intermediate Computer Graphic Design</td>
<td>3(2,4)</td>
<td>Acceptance in Graphic Design specialization and ART 2201C, ART 2203C, ART 2300C, ART 2301C, and a satisfactory portfolio review or C.I. The use of computer graphic systems for electronic publication. Fall.</td>
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<tr>
<td>GRA 4119C</td>
<td>CAH-ART Packaging Design and Display Systems</td>
<td>3(2,4)</td>
<td>Acceptance in Graphic Design Concentration and GRA 3100C. The visual concepts of packaging design and display systems. Exploration of materials, structures, function and semantic aspects of the packaging industry. Occasional.</td>
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<tr>
<td>GRA 4154C</td>
<td>CAH-ART Advanced Illustration</td>
<td>3(2,4)</td>
<td>ART 2201C, ART 2203C, ART 2300C, ART 2301C, GRA 3151C, and a satisfactory portfolio review or C.I. Illustration problems involving the use of advanced level techniques in illustration media. May be repeated for credit. Occasional. M&amp;S fee: $45.00</td>
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<tr>
<td>GRA 4196C</td>
<td>CAH-ART Advanced Graphic Design</td>
<td>3(2,4)</td>
<td>ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3801C, GRA 3511C or ART 3332C, and a satisfactory portfolio review or C.I. Practical studio problems, with emphasis on organization of visual design elements. Fall. M&amp;S fee: $45.00</td>
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<tr>
<td>GRA 4197C</td>
<td>CAH-ART Special Problems in Graphic Design</td>
<td>3(2,4)</td>
<td>ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, GRA 3100C, GRA 3112C, GRA 3801C, GRA 4196C, GRA 3511C or ART 3332C, GRA 4154C or ART 4302C, and a satisfactory portfolio review or C.I. Advanced problems in visual design and reproduction. May be repeated for credit. Spring. M&amp;S fee: $15.00</td>
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<tr>
<td>GRA 4802C</td>
<td>CAH-ART Advanced Computer Graphic Design</td>
<td>3(2,4)</td>
<td>ART 2201C, ART 2203C, ART 2300C, ART 2301C, PGY 2401C, ART 3100C, GRA 3112C, GRA 3801C, GRA 4196C, GRA 3511C or ART 3332C, GRA 4154C or ART 4302C, and a satisfactory portfolio review or C.I. Problems involving the use of advanced computer graphic systems for electronic publication. Odd Fall. M&amp;S fee: $15.00</td>
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<tr>
<td>HAI 1120</td>
<td>CAH-LANG Elementary Haitian Language and Culture I</td>
<td>4(4,0)</td>
<td>Permission of Honors. Introduces students to Classical Greek Literature and civilization through the study of grammar and syntax and extensive readings of Greek texts. Occasional.</td>
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<tr>
<td>HAI 1120</td>
<td>CAH-LANG Elementary Haitian Language and Culture II</td>
<td>4(4,0)</td>
<td>GRE 1121H and permission of Honors. Continuation of Elementary Greek I. Occasional.</td>
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<tr>
<td>HAI 1120</td>
<td>CAH-LANG Elementary Haitian Language and Culture II</td>
<td>4(4,0)</td>
<td>PR: HAI 1121 or equivalent. Continuation of HAI 1120. Spring.</td>
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<tr>
<td>HBR 1120</td>
<td>CAH-JUD Intermediate Modern Hebrew Language and Culture I</td>
<td>4(4,0)</td>
<td>ART 2200 or C.I.</td>
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<tr>
<td>HBR 1120</td>
<td>CAH-JUD Intermediate Modern Hebrew Language and Culture II</td>
<td>4(4,0)</td>
<td>PR: HBI 1121 or equivalent. Designed to continue the study of Modern Hebrew; increase proficiency in conversation, reading and writing skills, and further expose students to Israeli culture. Occasional.</td>
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<tr>
<td>HBR 1121</td>
<td>CAH-JUD Intermediate Modern Hebrew Language and Culture II</td>
<td>4(4,0)</td>
<td>PR: HBR 2200. Further development of modern Hebrew language skills in listening, speaking, reading, and writing. Occasional.</td>
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<tr>
<td>HBR 3250</td>
<td>CAH-JUD Biblical Hebrew</td>
<td>3(3,0)</td>
<td>PR: HBR 1121 or C.I. Grammatical and syntactical structure of Biblical Hebrew. Occasional.</td>
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<tr>
<td>HBR 3410</td>
<td>CAH-JUD Conversational Hebrew</td>
<td>3(3,0)</td>
<td>PR: HBR 1120, HBR 1121 or equivalent. CI. Study and practice of contemporary conversational Israeli Hebrew. Occasional.</td>
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<tr>
<td>HFT 1000</td>
<td>RCM-TEA Introduction to the Hospitality and Tourism Industry</td>
<td>3(3,0)</td>
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<td>HFT 1350</td>
<td>RCM-TEA Career &amp; Promotional Development in Golf</td>
<td>3(3,0)</td>
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<td>HFT 1356</td>
<td>RCM-TEA Concepts and Practices of Golf Associations</td>
<td>3(3,0)</td>
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<tr>
<td>HFT 2220</td>
<td>RCM-HOS Lodging Operations</td>
<td>3(3,0)</td>
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<tr>
<td>HFT 2259</td>
<td>RCM-MEI Design &amp; Maintenance of Golf Equipment</td>
<td>3(3,0)</td>
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HFT 2403 RCHM-HOS 3(3,0) Hospitality Industry Financial Accounting: Basic understanding of financial accounting and specifically hospitality industry accounting concepts and procedures used in hotels, restaurants, and clubs. Fall, Spring.

HFT 2500 RCHM-TEA 3(3,0) Hospitality and Tourism Marketing: PR: HFT 1000. The application of marketing concepts to the Hospitality and Tourism Industry. Special emphasis on marketing planning and strategic marketing. Fall, Spring.

HFT 2750 RCHM-TEA 3(3,0) The Event Industry: Overview of meetings, conventions, special events and exhibitions including the roles of organizations and people involved in the businesses that comprise this industry. Fall, Spring.

HFT 3263 RCHM-HOS 3(3,0) Restaurant Management: PR: HFT 1000, FSS 2221C, and junior standing or C.I. Discussion of the topics integral for the successful management of restaurant and food service organizations. Fall, Spring.

HFT 3273 RCHM-HOS 3(3,0) Principles of Resort Timesharing: PR: HFT 1000 and junior standing or C.I. Principles of resort timeshare operations and ownership. Fall, Spring.


HFT 3313 RCHM-HOS 3(3,0) Hospitality Physical Plant Management: PR: Junior standing. Analysis of operational problems related to the physical plant and structure of enterprises in the hospitality industry. Spring.

HFT 3353 RCHM-TEA 3(3,0) Golf Planning & Operations I: PR: HFT 3259. Customer relations concepts, an effective golf instruction program, and characteristics of effective merchandising and inventory procedures. Occasional.

HFT 3354 RCHM-TEA 3(3,0) Agronomy for Golf Course Management: PR: HFT 3353. Primary roles and responsibilities of the golf course superintendent. Occasional.

HFT 3355 RCHM-TEA 3(3,0) Golf Planning & Operations II: PR: HFT 3353. Merchandising and inventory control, golf swing philosophy and leadership models. Occasional.

HFT 3374 RCHM-TEA 3(3,0) Multi Media Applications in Exhibitions: PR: HFT 1000, HFT 2750, or C.I. The management of the audio and visual process of a large exhibition. Occasional.

HFT 3431 RCHM-HOS 3(3,0) Hospitality industry Managerial Accounting: PR: HFT 2403 and junior standing or C.I. Presentation, interpretation, and analysis of internal and external hospitality industry financial reports affecting management decisions using hospitality industry systems of accounting. Fall, Spring.

HFT 3443 RCHM-TEA 3(3,0) Event Technology: PR: HFT 1000 and HFT 2750; or C.I. Use of technology in the event industry to solidify processes and help people be more productive. Covers types of technology for different event processes. Occasional.

HFT 3444 RCHM-HOS 3(3,0) Hospitality Information Systems: PR: CGS 2100C, HFT 2254, and HFT 3263; or C.I. Focuses on management functions and practices, information systems and technology in hospitality. Higher tech for higher touch building on computer literacy and operation knowledge. Fall, Spring.


HFT 3511 RCHM-TEA 3(3,0) Convention and Conference Sales: PR: HFT 2750, HFT 2500 and junior standing or C.I. In-depth understanding of the sales process for the convention market. Covers the people, methods, materials and equipment needed. Fall.

HFT 3512 RCHM-TEA 3(3,0) Event Promotion: PR: HFT 1000, HFT 2750, and HFT 2500; or C.I. Promotion of events to sponsors, attendees, exhibitors and other participants. Occasional.

HFT 3515 RCHM-HOS 3(3,0) Reservations Sales & Marketing: PR: HFT 1000, HFT 2500 or C.I. Provides insight to all aspects of planning, performing and measuring room sales activities. Focus will be to manage all distribution channels to maximize profitability. Odd Fall.

HFT 3540 RCHM-HOS 3(3,0) Guest Services Management I: PR: Junior standing or C.I. The study of making decisions from the guest's point of view in the hospitality industry. Fall, Spring.


HFT 3600 RCHM-HOS 3(3,0) Legal Environment in the Hospitality and Tourism Industry: PR: C.I. Principles of law as related to the Hospitality/Tourism Industry. Fall, Spring.

HFT 3610 RCHM-HOS 3(3,0) Law and Restaurant Management: PR: HFT 3600 and HFT 3263. Emphasis on regulatory, case and administrative law. Compliance, prevention, and remedial actions are stressed. Occasional.

HFT 3654 RCHM-HOS 3(3,0) Franchising in the Restaurant Industry: PR: Restaurant Management Core or C.I. Addresses the legal requirements for franchising, contract rates, responsibilities, size, structure, and history. Fall.

HFT 3670 RCHM-TEA 3(3,0) Hospitality and Event Risk Management: PR: HFT 1000 and HFT 2750; or C.I. Risk, crisis, and liability issues that may arise in the planning and management of special events, meetings, conventions, and exhibitions. Occasional.

HFT 3700 RCHM-TEA 3(3,0) Tourism Management: PR: HFT 1000 and junior standing or C.I. Analysis of the tourism phenomenon in contemporary societies. An exploration of major concepts about tourism as an inter-linked industry composed of many sectors within both the private and public sectors. Fall, Spring.

HFT 3741 RCHM-TEA 3(3,0) Meeting Management: PR: HFT 4753 and HFT 4754. The process of meeting planning, from setting objectives to analyzing the success of the event. Fall, Spring.

HFT 3770 RCHM-TEA 3(3,0) Cruise Line Operations and Management: PR: HFT 1000 and junior standing or C.I. Understanding of cruise company operations and management. Shipboard organization and delivery of the cruise product to the guest. Occasional.

HFT 3784 RCHM-TEA 3(3,0) Amusement Technology: PR: HFT 1000 and HFT 1475. Exploration of various technologies utilized by the leisure-based entertainment industry. Includes amusement devices, operational and IT software packages as well as ride and show systems. Spring.

HFT 3785 RCHM-TEA 3(3,0) Management of Gaming Enterprises: PR: Junior level standing, an in-depth study of gaming-based organizations including cruise ships, Indian reservation casinos, and others. The history and development of gaming organizations, the economics, social, and cultural impact of gaming and managerial challenges and opportunities in the industry. Occasional.

HFT 3792 RCHM-TEA 3(3,0) Event Design and Production: PR: HFT 1000, HFT 2750, HFT 3443, and HFT 3670; or C.I. The many aspects of event production, including art, design, and staging. Provides hands on practical experience. Occasional.

HFT 3798 RCHM-HOS 3(3,0) Fairs and Festivals: PR: HFT 1000 and HFT 2750; or C.I. Explains modern day exhibitions and trade shows from fairs and festivals. Occasional.

HFT 3807 RCHM-HOS 3(3,0) Multi-Unit Food Service Operations: PR: HFT 1300 and junior standing or C.I. The strategy and managerial aspects of chain restaurant management, including organization development, brand building, and industry segments. Spring.

HFT 3834 RCHM-HOS 3(3,0) Topics in Restaurant and Foodservice Management: PR: HFT 3200 and FSS 2211C. Guest lecture series covering contemporary issues in the various segments of the foodservice industry. Odd Spring.

HFT 3869 RCHM-HOS 3(3,0) History and Culture of Wine: PR: World History course or C.I. Discussion of the role that wine has played in the history, culture, and religion of diverse civilizations. Fall, Spring. M&S fee: $45.00.

HFT 3933 RCHM-RCHM 1(1,0) Distinguished Lectures in Hospitality Management: PR: HFT 1000, Junior standing. First hand introduction to hospitality leaders, their perspectives on the segments they represent, and the breadth of those segments. Graded S/U. Fall, Spring.

HFT 3949 RCHM-RCHM 0-5(0,1,5) Cooperative Education: Provides paid, pre-professional work experience related to the students' major while they continue to attend school. Requires achievement of major-related learning objectives. Fall, Spring.

HFT 4250C RCHM-HOS 3(3,1) Hospitality Operations: PR: Junior Standing or C.I. An integration of lodging and food service operations providing students with a comprehensive knowledge of these related content areas; food service lab component. Occasional.

HFT 4253 RCHM-HOS 3(3,0) Hotel Operations: PR: HFT 1000, HFT 2220; FSS 2221C, HFT 2254, HFT 2500, HFT 3500, HFT 2750, HFT 2403, HFT 3444, HFT 3540. Provides the advanced student with first-hand knowledge of the day-to-day operations of a hotel property. Reconciles conflicts between theory and practice in a real life hotel. Spring.

HFT 4255 RCHM-HOS 3(3,0) Advanced Hotel Development: PR: HFT 4462, HFT 4473, or C.I. Hotel investment practices, risk management and other investment decision factors. Occasional.
UCF Courses and Descriptions

HFT 4266 RCHM-HOS 3(3,0) Restaurant Brand Management: PR: HFT 3263 and junior standing or C.I. Exploration of the principles of brand management for the corporate restaurant industry. Occasional.

HFT 4268 RCHM-HOS 3(3,0) Case Studies in Restaurant Management: PR: HFT 3263 and junior standing or C.I. Application of case study methodology to advanced topics in restaurant and food service management. Fall, Spring.

HFT 4269 RCHM-HOS 3(3,0) Case Studies in Multi-Unit Restaurant Management: PR: HFT 3263. Application of case study methodology to advanced topics in chain or multi-unit restaurant and food service operations. Fall.

HFT 4274 RCHM-HOS 3(3,0) Vacation Ownership Resort Management: PR: HFT 3273, HFT 4522 or C.I. Comprehensive analysis of applied theories, principles, and techniques used in the management of vacation resorts. Occasional.

HFT 4275 RCHM-HOS 3(3,0) Development of Vacation Ownership Resorts: PR: HFT 3273 and HFT 4473 or C.I. Comprehensive analysis of applied theories, principles, and techniques used in the planning and development of vacation resorts. Occasional.

HFT 4277 RCHM-TEA 3(3,0) Yacht, Country, and City Club Management: PR: HFT 1000 and junior standing or C.I. A study of the history, development, operation and management of Yacht, Country and City Clubs. Emphasis will be placed on operational aspects. Fall.

HFT 4281 RCHM-HOS 3(3,0) Restaurant Leadership Strategies and Tactics: PR: Hospitality Management Core and Restaurant Management Core or C.I. An analysis of the leadership styles of restaurant industry founders and executives. Fall, Spring.

HFT 4284 RCHM-HOS 3(3,0) Training and Employee Performance in the Foodservice Industry: PR: HFT 2220, HFT 3540; HFT 4266; HFT 4268; HFT 4322; FSS 3224; FSS 4124. Teaching and training methodologies relative to the service positions in a restaurant. Encompasses training techniques, guest interaction, and assessment of service performance. Occasional.

HFT 4286 RCHM-TEA 3(3,0) Hospitality Communications: PR: HFT 1000; HFT 2220; FSS 2221C; HFT 2254; HFT 2500; HFT 3600; HFT 2750; HFT 2403; HFT 3444; HFT 3540. Communication exchanges in the hospitality industry for effective presentations, conflict resolution, and report writing. Emphasis on interdepartmental dependence by managers in hospitality enterprises in the areas of reading, writing, speaking, and listening. Fall, Spring.

HFT 4294 RCHM-HOS 3(3,0) Hospitality Enterprises Management II: PR: C.I. Planning and implementing strategies for managing the human resource in the hospitality/tourism industry. Occasional.

HFT 4295 RCHM-TEA 3(3,0) Leadership and Strategic Management in Hospitality Industry: PR: Completion of Hospitality Management Core program. Principles of strategic decision making in various hospitality and tourism organizations; lectures, class discussions, and group case analysis presentations. Fall, Spring.

HFT 4298 RCHM-TEA 3(3,0) Hospitality Business Consulting: PR: HFT 1000 and junior standing or C.I. A systematic approach to Hospitality Management. Students apply their cumulative knowledge in an active learning environment in a small hospitality operation. Spring.

HFT 4343 RCHM-HOS 3(3,0) Hospitality Facilities Planning and Design: PR: HFT 1000, HFT 2254 and junior standing; or C.I. Principles of facility planning; layout and design for dining, kitchen, guest room, lobby, and service areas. Odd Fall.

HFT 4358 RCHM-TEA 3(3,0) Golf Course Facility Design: PR: HFT 3385. Golf course and golf facility design from a functional perspective and from a perspective of form. Occasional.

HFT 4375 RCHM-TEA 3(3,0) Advanced Trade Show Management: PR: HFT 4754 or C.I. Trade show installation, floor management and dismantling/shippping. Pre-event logistics and on-site management of critical success factors. Occasional.

HFT 4413 RCHM-HOS 3(3,0) Technology Applications for Hospitality Management: PR: HFT 3444 Hospitality Information Systems. Provides students with fundamental information system concepts and techniques for effective applications to strategic thinking in hospitality organizations. Odd Fall.

HFT 4425 RCHM-HOS 3(3,0) Financial Analysis for Restaurant Managers: PR: HFT 2403, HFT 3431, and HFT 3263. Topics of unit level economics, budgeting, valuation of restaurant enterprises, ownership models, franchising, financing, and securing access to capital through debt and equity markets. Occasional.

HFT 4432 RCHM-HOS 3(3,0) Hospitality Industry Auditing: PR: HFT 3431 Hospitality Industry Managerial Accounting. Provides basic fundamentals of eliminating fraud and saving money through proper internal controls in the hospitality industry. Occasional.

HFT 4442 RCHM-HOS 3(3,0) Vacation Ownership Reservations and Database Systems: PR: HFT 1000, HFT 3273, HFT 4522, HFT 4274 or C.I. Tactics and strategies necessary for owner exchange, information transmission, and financial reporting. Occasional.

HFT 4453 RCHM-HOS 3(3,0) Food, Beverage, and Labor Cost Controls: PR: HFT 3431 Hospitality Industry Managerial Accounting. Provides students with basic fundamentals of food, beverage, and labor cost control systems in the hospitality industry. Fall, Even Spring.

HFT 4462 RCHM-HOS 3(3,0) Hospitality Industry Finance: PR: HFT 3431 and junior standing or C.I. Working knowledge of finance concepts and theories applicable to the Hospitality Industry including evaluating management contracts, franchising, and leasing. Odd Fall, Odd Spring.

HFT 4473 RCHM-HOS 3(3,0) Hotel Development Analysis: PR: HFT 3431 and junior standing or C.I. Review of methodological operation, financial, and marketing aspects of analysis for hotel development projects. Even Fall.

HFT 4522 RCHM-HOS 3(3,0) Vacation Ownership Resort Sales Tactics and Strategies: PR: HFT 1000, HFT 3273 or C.I. Sales tactics and corporate strategies employed in the sales and marketing of vacation ownership properties. Occasional.

HFT 4532 RCHM-TEA 3(3,0) Managing the Employee Experience in the Theme Park and Attraction Industry: PR: HFT 4755 and junior standing or C.I. Managing staffing needs, supervision, communication, legal compliance, and retention in the theme parks and attraction industry. Fall.


HFT 4645 RCHM-HOS 3(3,0) Restaurant Real Estate, Site Selection, and Marketing: PR: Hospitality and Restaurant Management Cores or C.I. Explains the management systems for finding, evaluating, securing, and developing dynamic restaurant real estate locations. Occasional.

HFT 4717 RCHM-HOS 3(3,0) Hospitality Operations II: PR: Junior Standing. A survey of tourism, travel agency, airline, convention and trade show operations from both the U.S. and international perspective. Occasional.

HFT 4722 RCHM-TEA 3(3,0) Travel Agency Management: PR: Junior Standing. The trends operation management procedures and practices of travel agents. Emphasis on tools utilized in agency operations. Occasional.

HFT 4735 RCHM-TEA 3(3,0) Tourism Geography: PR: HFT 3700 and junior standing or C.I. A seminar discussing the main geographical tourism destinations in U.S. and the World. Fall, Spring.


HFT 4752 RCHM-TEA 3(3,0) Guest Services Management II: PR: HFT 3540 or C.I. Using decision theory and analytical techniques to create and maintain quality guest services. The emphasis is on strategic implications of quality service management. Occasional.

HFT 4753 RCHM-TEA 3(3,0) Convention and Conference Services: PR: HFT 3511 and junior standing or C.I. Provides an in-depth understanding of the acquisition and management of services (food and beverage, audio visual, transportation, etc.) integral to effective convention and conference operations. Spring.

HFT 4754 RCHM-TEA 3(3,0) Exhibit and Trade Show Operations: PR: HFT 2750 and junior standing or C.I. Provides an in-depth study of exhibit and trade show operations. Focuses on both supply and demand pertaining to exhibits and trade shows. Fall, Spring.

HFT 4755 RCHM-TEA 3(3,0) Theme Park and Attraction Management: PR: HFT 1000 and junior standing or C.I. An in-depth study of the theme park and attraction industry, focusing on resources, ride operations, merchandising, food services, and architectural design. Fall, Spring.

HFT 4757 RCHM-TEA 3(3,0) Event Management: PR: HFT 3443, HFT 3670, HFT 3792, HFT 3512, HFT 4802 and junior standing or C.I. Reviews the role and scope of events in the hospitality industry, as well as the process of planning, organizing, and managing events. Fall, Spring. M&S fee: $37.00

HFT 4758 RCHM-TEA 3(3,0) Contemporary Issues in the Theme Park and Attraction Industry: PR: HFT 4755 and junior standing or C.I. Examination of current issues in the theme park and attractions industry, including hands-on situation analysis. Fall.

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HFT 4759  RCHM-TEA  3(3,0)  
Product Development in Theme Parks and Attractions: PR: HFT 4755 and junior standing or C.I. The strategic management process associated with product development in the theme parks and attraction industry. Spring.

HFT 4762  RCHM-TEA  3(3,0)  

HFT 4786  RCHM-TEA  3(3,0)  
Managing the Guest Experience in the Theme Park and Attraction Industry: PR: HFT 4755. The management of guest needs and expectations in theme parks and attractions. Spring.

HFT 4787  RCHM-TEA  3(3,0)  
Operational Issues in the Theme Park and Attraction Industry: PR: HFT 4755. Organizational structure and operational culture of theme parks and attractions. Fall.

HFT 4791  RCHM-TEA  3(3,0)  
Event Management II: PR: HFT 3670, HFT 3512, HFT 3443, HFT 3792, FSS 2221C, HFT 3802, and HFT 3757. Capstone course in event management. Students produce an event that has been planned in HFT 3757. Occasional. M&S fee: $45.00.

HFT 4795  RCHM-TEA  3(3,0)  
Entertainment Arts and Events: PR: HFT 2760 and HFT 4755 or C.I. A historical perspective of theme park, event, and attraction entertainment. Covers show development, event production, creative processes, casting, costumes, styling, and evaluation. Fall, Spring.

HFT 4796  RCHM-TEA  3(3,0)  
International Events: PR: HFT 1000 and HFT 2760, or C.I. Considerations when planning events that are held outside of the United States or that attract a large number of participants from outside the United States. Occasional.

HFT 4802  RCHM-TEA  3(3,0)  
Catering Management: PR: HFT 3443, HFT 3670, HFT 3792, HFT 3512, FSS 2221C. Catering sales and operations. Emphasis on logistics, market segments, and service. Fall, Spring. M&S fee: $45.00.

HFT 4844  RCHM-HOS  3(3,0)  

HFT 4861C  RCHM-HOS  3(3,1)  
Beverage Management: PR: Minimum age of 21 by the first day of class and junior standing. The origin of production, storing, marketing, and control of beverages in the hospitality industry. Spring. M&S fee: $45.00.

HFT 4864  RCHM-HOS  3(3,0)  

HFT 4865  RCHM-HOS  3(3,0)  

HFT 4866C  RCHM-HOS  3(3,1)  
Exploring Wines of the World: PR: HFT 1000, HFT 2503, and Age of 21; or C.I. Using senses to evaluate wines, methodology of tasting and evaluating wines, growing, processing, and production of grape varieties used in making wine. Odd Fall, Even Spring. M&S fee: $45.00.

HFT 4894  RCHM-HOS  3(3,0)  
International Gastronomy: PR: FSS 2221C, HFT 3700, and C.I. A world view of culture and cuisine that includes an international travel component. May be used in the degree program a maximum of 2 times. Spring.

HFT 4949  RCHM-RCHM  0-5(0,1,5)  
Cooperative Education: Provides paid, pre-professional work experience related to the student’s major while they continue to attend school. Requires achievement of major-related learning objectives. Fall, Spring.

HIM 3006  HPA-HP  3(3,0)  
Foundations of Health Information Management (HIM): PR: Acceptance into upper-division limited access HIM program or C.I. Foundation of profession; release of information; record analysis; numbering and filing systems; standards for long-term care; ambulatory care; and mental health records. Fall, Spring.

HIM 3116C  HPA-HP  4(3,2)  
Health Record Organization and Management: PR: HIM 3006. Nomenclature/classification systems; health and vital statistics; data analysis and presentation; indexing; computer abstracting; accrediting and approving agencies; medical staff organization. Spring.

HIM 3806L  HPA-HP  4(0,8)  
Professional Practice Experience I: PR: Admission to HIM program. CR: HIM 3006, HIM 3531 and HIM 3116C. Interdepartmental experience; master patient index; numbering and filing systems; assembly and analysis; incomplete record control; record storage, retention and retrieval; and release of information. Fall, Spring.

HIM 4226C  HPA-HP  5(3,4)  
Coding Procedures I: PR: HSC 3531 or C.I. Principles and mechanics of coding systems for inpatient health information retrieval; ICD-9-CM, DRGs; encoders. Fall, Spring.

HIM 4256C  HPA-HP  5(2,2)  
Coding Procedures II: PR: HSC 3531 or C.I. Principles and mechanics of coding systems for outpatient health information retrieval; CPT/HCPCS; APCs; encoders. Fall, Spring.

HIM 4344C  HPA-HP  4(3,2)  
Health Information Department Management: PR: HIM 3116C, HSA 4190 or MAN 3025; or C.I. Personnel administration; budgeting; forms analysis; work distribution and simplification; equipment selection; ergonomics and space planning. Fall.

HIM 4506C  HPA-HP  4(2,2)  
Quality Management: PR: HSC 3531 or C.I. Principles and mechanics of quality improvement; utilization review; case management and risk management. Fall, Spring.

HIM 4656C  HPA-HP  4(2,2)  
Health Information Management Systems: PR: HSA 4191 or C.I. Visualization of computerized information systems, management and patient care in the health care industry, systems analysis, system design and project management concepts. Fall, Spring.

HIM 4676  HPA-HP  4(3,0)  
Professional Development and Issues in Health Information Management: PR: HIM 4543C, HIM 4563A. Analysis of management functions in health care setting: the HIM professional as an educator; problem-solving techniques; professional ethics; alternative careers. Spring.

HIS 3462  CAH-HIST  3(3,0)  

HIS 3949  CAH-HIST  0(0,8)  
Cooperative Education in History: PR: Departmental permission required before registering. Cooperative education experience in history. Graded S/U. May be repeated for credit. Occasional.

HIS 4070  CAH-HIST  3(3,0)  

HIS 4150  CAH-HIST  3(3,0)  
History and Historians: PR: C.I. A study of European and/or American historiography. May be used in the degree program a maximum of 2 times. Fall, Spring.

HIS 4935  CAH-HIST  3(3,0)  
Senior Seminar: PR: Senior standing, history major, and C.I. Research in history through sustained reading, writing, and discussion on a focused topic. May be repeated for credit. Fall, Spring.

HIS 4944  CAH-HIST  3(3,0)  
Internship in Public History: PR: C.I. The Public History Internship is a one-semester course in which undergraduate history majors explore and gain experience in public history professions. Fall, Spring.

HIS 4970  CAH-HIST  3(3,0)  
Senior Thesis: Original research paper available to advanced history majors, topics to be selected in consultation with a directing professor. Occasional.

HIS 5067  CAH-HIST  3(3,0)  
Introduction to Public History: PR: Graduate status or senior standing or C.I. Course will explore work of important historians influenced by social theory to gain an understanding of their main concepts. Occasional.

HIS 5158  CAH-HIST  3(3,0)  
Classic and Contemporary Historical Thought: PR: Graduate status or senior standing or C.I. Examine and discuss the practice of history in museums, archives, documentary editing, historical publication, media, historical societies, and government agencies. Occasional.

HIS 4150  CAH-HIST  3(3,0)  
History and Historians: PR: C.I. A study of European and/or American historiography. May be used in the degree program a maximum of 2 times. Fall, Spring.
UCF Courses and Descriptions

HSA 3111H HPA-HP 3(3,0) U.S. Health Care Systems Honors: PR: Major or minor in College of Health or C.I. Permission of Honors. A survey of the economics, social, and political aspects of the health care system in the United States. With Honors content. Occasional.

HSA 3170 HPA-HP 3(3,0) Health Care Finance: PR: HSA 3111 or C.I. AGC 2021 and AGC 2071. Budgeting and resource allocation related to health care agencies. Fall, Spring.

HSA 3222 HPA-HP 3(3,0) Long Term Care and Administration: PR: HSA 3111 or C.I. The clients, services, and administration of long-term care in specific settings. Students complete a service learning component in long-term care organizations. Even Fall, Spring.

HSA 3430 HPA-HP 3(3,0) Health Care Economics: PR: HSA 3111; ECO 2023, or C.I. An application of economic principles to analyze how different economic incentives affect patients, providers, and policy makers behaviors in the delivery of health services. Fall, Spring.

HSA 4109 HPA-HP 3(3,0) Principles of Managed Care: PR: HSA 3111 or C.I. Course will introduce the contractual, financial, and practice pattern components of managed care. Even Fall, Spring.

HSA 4151H HPA-HP 3(3,0) Honors Health Care Policy: PR: Permission of Honors and Junior Standing or C.I. Examination of five significant policy issues to enable the student to gain knowledge and understanding of the complexities of health care as a societal issue. Occasional.

HSA 4180 HPA-HP 3(3,0) Organization and Management for Health Agencies: PR: HSA 3111 or C.I. Organization and management of health care agencies, including procedural applications. Fall, Spring.

HSA 4191 HPA-HP 3(3,0) Health Care Automation: PR: HSA 3111; CGS 2100, or CGS 1060C, or C.I. Analysis and design of computerized systems for health data and health administration. Fall, Spring.

HSA 4201 HPA-HP 3(3,0) Community Health: PR: HSA 3111 or C.I. Historical, sociocultural and economic factors in community health; current community health problems; interphase of governmental, voluntary and private agencies. Fall, Spring.


HSA 4502 HPA-HP 3(3,0) Risk Management Systems: PR: HSA 3111 or C.I. Safety, liability and loss control issues with emphasis on risk reduction and risk transfer in health care. Fall, Spring.

HSA 4701 HPA-COM SCDIS 6(6,0) Introduction to Research in the Health Professions: PR: Senior or post-bac standing. The logic of research and the architecture of basic and applied investigations that are internally and externally reliable and valuable will be stressed. Occasional.

HSA 4702 HPA-HP 3(3,0) Health Sciences Research Methods: PR: HSA 3111; STA 2044C or STA 2023, or C.I. Introduction to research design in the Health Sciences, including design, literature review, testing, analysis, and conclusions. Fall, Spring.

HSA 5177 HPA-HP 3(3,0) Foundations of Health Care Finance: PR: Admission to graduate program in HSA or C.I. Preparatory course for graduate students who are not prepared to take the required health care finance course. Occasional.

HSA 5198 HPA-HP 3(3,0) Health Care Decision Sciences and Knowledge Management: PR: Graduate standing. Emphasis on development of a general systematic approach to solving problems under uncertainty. The role of informatics and application of information technology in improving managerial decision making process will be presented. Occasional.

HSA 5257 HPA-HP 3(3,0) ICD9 Coding for Health Services Administrators: PR: HSC 0536, B.S. in Health related field, or C.I. Emphasis on developing basic skills to facilitate an understanding of the coding process and the compliance issues relevant to the process. May be repeated for credit. Occasional.

HSA 5258 HPA-HP 3(3,0) CPT Coding for Health Services Administrators: PR: HSC 6638 or C.I., or BS in Health-related field. Emphasis on understanding of coding process and the compliance issues relevant to the process. Occasional.

HSC 1931C HPA-HPA 2(1,1) Foundations of Leadership: PR: LEAD Scholars Program. Seminar for LEAD Scholars in the College of Health & Public Affairs providing a foundation of leadership, scholarship, and service regarding disciplines in the college. Occasional.

HSC 2000 HPA-HP 2(2,0) Introduction to the Allied Health Professions: A survey of allied health professions with regard to duties, responsibilities, education and training, ethics, and relationships with other health professionals. Graded S/U. Fall.


HSC 2921 HPA-HP 2(2,0) LEAD Colloquium: PR: Accepted to the LEAD Scholars Program and have completed at least two of the following: A) 1040C, GEB 1091C or EDG 1005C. Experiential leadership development in an appropriate setting with the LEAD Scholars Program. May be repeated for credit. Occasional.

HSC 3110C HPA-HP 3(2,2) Medical Self Assessment: Development of clinical skills and understanding of one's health to encourage active participation of individuals in their own health care. Fall, Spring. M&S fee: $15.00.

HSC 3157 HPA-HP 3(3,0) Introduction to Pharmacology: Review of terminology and regulations. Study of drug types and usage. Fall, Spring.

HSC 3402C HPA-HP 3(2,3) CPR & First Aid: To train individuals to accepted and recognized medical standards in emergency first aid and CPR to include medical, environmental and trauma related emergencies. Occasional.

HSC 3531 HPA-HP 3(3,0) Medical Terminology: A study of the language of medicine and allied health specialties, including work construction, definitions, and application of terms. Fall, Spring.

HSC 3559 HPA-COM SC&DIS 3(3,0) Disabilities in American Society: PR: Junior or senior status. Personal, social, and environmental impediments confronted by persons with disabilities, including communicative disorders. Strategies that promote life satisfaction are also reviewed. Fall.

HSC 3593 HPA-HP 3(3,0) HIV Disease: A Human Concern: Analysis of the spectrum of HIV disease and the issues surrounding this public health crisis. Fall, Spring.

HSC 3640 HPA-HP 3(3,0) Health Law: PR: HSA 3111 or C.I. Principles of law as applied to the health field, with special reference to health practices. Fall, Spring.

HSC 4008 HPA-HP 3(3,0) Professional Development in Health Professions: PR: RET 3026C or C.I. Career development planning, professional leadership approaches to problem solving, regulatory and professional requirements, and the impact of disease and technology on the health care industry. Spring.

HSC 4148 HPA-HP 2(2,0) Medical Pharmacology I: Drugs in pulmonary diseases; effects on nervous system, and neuro/receptors, depressants & stimulants; influence on metabolism and endocrinics. (MD/RV) Bronchodilators, mycotics, etc. Fall.

HSC 4149 HPA-HP 2(2,0) Medical Pharmacology II: PR: HSC 4148 or C.I. Drugs used in cardiovascular disorders. Includes inotropic, chronotropic agents, beta blocker drugs, calcium channel antagonists. Spring.

HSC 4243 HPA-HP 3(3,0) Analysis of Instruction in Health Professions: Development of teaching aids, audiovisuals, learning packets. Course development, questioning strategies, evaluation of didactic and clinical performance. Spring.

HSC 4500 HPA-HP 3(3,0) Epidemiology: PR: HSA 3111 or C.I. STA 2014C or STA 2023. A study of the distribution and determination of diseases and injuries in human population. Fall, Spring.

HSC 4550 HPA-HP 3(3,0) Pathophysiologic Mechanisms: PR: ZOO 3733C and PCB 3730C, or C.I. A study of pathologic lesions and pathophysiological mechanisms in causation and evolution of the various disease state. Fall, Spring.

HSC 4564 HPA-HP 3(3,0) Health Care Needs of the Elderly: PR: HSA 3111 or C.I. Overview of the physical and emotional needs of the elderly, including the institutional health care available. Fall, Spring.

HSC 4653 HPA-HP 3(3,0) Health Care Ethics: PR: HSA 3111 or C.I. A study of ethical issues in health care, including life-saving measures, rights to die, transplants, surrogate guardianship, privacy and confidentiality, and decision-making. Fall, Spring.

HSC 5317 ED-TLP 3(3,0) Health Methods: Teaching Strategies and Interventions: PR: Admission to Graduate Certificate in Health and Wellness or C.I. Application of the knowledge of teaching strategies, methodology, and curriculum to develop a comprehensive school health program. Occasional.

HSC 5595 HPA-HP 3(3,0) AIDS: A Human Concern: Focus on epidemiology, transmission, prevention, legal and health care issues, economic impact, psychosocial aspects, sexuality, substance abuse, ethics, hotline, referral services and the decision-making process. Occasional.

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ISM 4153 BA-MIS 3(3,0)
Enterprise Information Systems: PR: ISM 3011. Open to MIS Majors and Minors and students whose major requires it. Implementing and managing enterprise information systems in organizations. Occasional.

ISM 4154 BA-MIS 3(3,0)
Enterprise Application Development: PR: ISM 4431. Open to MIS Majors and Minors and students whose major requires it. Design and development of enterprise applications with special emphasis on web based development platforms. Occasional.

ISM 4212C BA-MIS 4(3,2)
Database Design and Implementation: PR: ISM 3253, ISM 3011. Open to MIS Majors and Minors and students whose major requires it. Design and implementation of relational database in organizations. Fall, Spring.

ISM 4220 BA-MIS 3(3,0)
Distributed Information Systems: PR: ISM 3253, ISM 3011. Open to MIS Majors and Minors and students whose major requires it. Computer networking and communications. Managerial and technical dimensions of client/server and other modes of distributed and decentralized computing in business. Fall, Spring.

ISM 4228 BA-MIS 3(3,0)
Advanced Distributed Information Systems: PR: ISM 4220. Open to MIS Majors and Minors and other appropriate majors. Provides students with in-depth, hands-on experience with networking hardware and software. Teamwork is emphasized in mastering networking concepts. Occasional.

ISM 4238 BA-MIS 3(3,0)
Business Programming/OOP: PR: ISM 3253, ISM 4212C, or C.I. Open to MIS Majors and Minors and other appropriate majors. Provides students with in-depth, hands-on experience with networking hardware and software. Teamwork is emphasized in mastering networking concepts. Occasional.

ISM 4300 BA-MIS 3(3,0)
Information Technology Management: PR: ISM 4113, ISM 3025. Open to MIS Majors and Minors and students whose major requires it. The strategy and theory of the design, development, adoption, and management of new information technologies. Fall, Spring.

ISM 4323 BA-MIS 3(3,0)
Information Systems Security: PR: ISM 4220. Open to MIS Majors and Minors and students whose major requires it. Primary issues related to information systems security in an organization's IT infrastructure. Occasional.

ISM 4400 BA-MIS 3(3,0)
Decision Support: PR: ISM 3011. Open to MIS Majors and Minors and students whose major requires it. Computer-based quantitative models and decision support systems in organizations. Fall, Spring.

ISM 4431 BA-MIS 3(3,0)

ISM 4480 BA-MIS 3(3,0)

ISM 4941 BA-MIS 3(3,0)
Internship in MIS: PR: ISM 3253, ISM 4212C, and ISM 3011. Consent of department chair. Provides student with supervised, management information system-related work experience in a sponsoring organization. See department for information. Fall, Spring.

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. Occasional.

ISM 5123 BA-MIS 3(3,0)
Concepts of Systems Analysis and Design: PR: Graduate standing. Using a traditional life-cycle approach, the course introduces practical tools and techniques for organizational analysis and the subsequent design of an information system. Occasional.

ISM 5127 BA-MIS 3(3,0)
Concepts of Database Design and Administration: PR: Graduate standing. Introduces concepts and methodologies related to the effective utilization of data by organizations. Occasional.

ISM 5219 BA-MIS 3(3,0)

ISM 5256 BA-MIS 3(3,0)
Concepts of Business Programming: PR: Senior or Admission to Graduate Study. Principles of programming including program design, fundamental programming constructs, and database access. Occasional.

ISM 5315 BA-MIS 3(3,0)
Information Systems Project Management: PR: Graduate standing. This course introduces students to the concept of project management including project scope, cost, time and quality. Occasional.

ISM 5507 BA-MIS 3(3,0)

ITT 4155 COS-Comm 3(3,0)

ITA 1005 CAH-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. Even Spring.

ITA 1120 CAH-LANG 4(4,1)
Elementary Italian Language and Civilization I: PR: ITA 2201 or equivalent. Introduces the student to Italian culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Fall, Spring.

ITA 1121 CAH-LANG 4(4,1)
Elementary Italian Language and Civilization II: PR: ITA 1120 or equivalent. Continuation of ITA 1120. Fall, Spring.

ITA 2200 CAH-LANG 3(3,0)
Intermediate Italian Language and Civilization I: PR: ITA 3420 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. Fall.

ITA 2201 CAH-LANG 3(3,0)
Intermediate Italian Language and Civilization II: PR: ITA 2200 or equivalent. Designed to continue development of language skills at intermediate level, plus a review of grammar and study of syntax, with emphasis on Italian civilization. Spring.
Writing minor. A study of the techniques and procedures of print media; issues, principles, and practices.

JOU 3101 COS-COMM 3(3,0)
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. Fall, Spring. M&S fee: $15.00

JOU 3184C COS-COMM 3(2,1)
Metro Reporting: PR: Journalism minor and a minimum grade of "C" (2.0) in JOU 2100C. Coverage of several important news beats in a metropolitan area. Occasional.

JOU 3201 COS-COMM 3(3,0)
Editing I: PR: Journalism major or Magazine Journalism minor and meet grammar proficiency requirement. Editing copy, writing headlines, managing newsroom operations. Fall, Spring. M&S fee: $15.00

JOU 3202 COS-COMM 3(3,0)
Editing II: PR: Journalism major or Magazine Writing minor, a minimum grade of "C" (2.0) in JOU 3201, and a minimum grade of "C" (2.0) in JOU 2100C. Practical aspects of editing. Principles of design. Practice in editing and layout. Fall, Spring. M&S fee: $15.00

JOU 3313C COS-COMM 3(2,1)
Sports Reporting: PR: Journalism major and a minimum grade of "C" (2.0) in JOU 2100C. Covering sports for the print media; issues, principles, and practices. Occasional.

JOU 3510 COS-COMM 3(3,0)
Magazine Publishing: PR: Journalism major or Magazine Writing minor, and a minimum grade of "C" (2.0) in JOU 2100C. The magazine industry, emphasizing business operations and current topics. Spring.

JOU 4181 COS-COMM 3(3,0)
Public Affairs Reporting: PR: Journalism major, and a minimum grade of "C" (2.0) in both JOU 2100C and JOU 3_________ 3 _ _ Metro Reporting. Reporting on city, county and state government. Fall, Spring. M&S fee: $15.00

JOU 4211C COS-COMM 3(2,1)
Informational Graphics: PR: JOU major and a minimum grade of "C" (2.0) in JOU 2100C. Use of boxes, charts and graphics in the print media. Occasional.

JOU 4213C COS-COMM 3(2,1)
Page Design: PR: Journalism major and JOU 3201 and JOU 3202 or VIC 3001. Designing newspaper pages, including stories, headlines, and other content. Occasional.

JOU 4224 COS-COMM 3(3,0)
Magazine Editing and Production: PR: Journalism major or Magazine Writing minor, and a minimum grade of "C" (2.0) in JOU 2100C. The magazine industry, including writing and editing skills, and editorial, business, and production requirements. Occasional.

JOU 4300 COS-COMM 3(3,0)
Feature Writing: PR: Journalism major or Magazine Writing minor, and a minimum grade of "C" (2.0) in JOU 2100C. Writing feature articles for newspapers and magazines. Fall, Even Spring.

JOU 4306C COS-COMM 3(1,2)
Critical Writing: PR: Journalism major or Magazine Writing minor. Writing reviews of movies, plays, television programs, concerts, books, and other cultural works. Occasional.

JOU 4308 COS-COMM 3(3,0)
Freelance Writing: PR: Journalism major or Magazine Writing minor. A study of the techniques and procedures of freelance writing, including the preparation of several manuscripts. Occasional.

JOU 4340C COS-COMM 3(1,3)
On-line Journalism I: PR: A minimum grade of "C" (2.0) in JOU 2100C, and PUR 3100. The development, impact and problems of using the Internet as a journalistic tool. Write and design news for the Web. Occasional. M&S fee: $15.00

JOU 4341C COS-COMM 3(1,3)
On-line Journalism II: PR: JOU 4340C. Study, design, and development of on-line journalism materials. Occasional. M&S fee: $15.00

JOU 4342C COS-COMM 3(2,1)

JOU 4700 COS-COMM 3(3,0)

JPN 1120 CAH-LANG 4(4,1)

JPN 2200 CAH-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. Fall.

JPN 2201 CAH-LANG 3(3,1)
Intermediate Japanese Language and Civilization II: PR: JPN 2200 or equivalent. Continuation of JPN 2200 with emphasis on Japanese civilization. Spring.

JPN 2952 CAH-LANG 3(3,0)

JPN 3760 CAH-LANG 3(3,0)
Advanced Japanese Conversation: PR: JPN 2201 or equivalent proficiency. Communication in conversational Japanese to enhance knowledge of the sound changes, speech functions and styles in verbal discourse. Occasional.

JST 3005 CAH-JUD 3(3,0)

JST 3100 CAH-JUD 3(3,0)

JST 3120 CAH-JUD 3(3,0)

JST 3121 CAH-JUD 3(3,0)
Classic Texts of Judaism: PR: ENC 1102. Scriptur, post-Biblical Rabbinic writings, Exegesis, Apocrypha, Qumran documents, Mishnah, Talmud, the Siddur, as well as Jewish mystical writings. Occasional.

JST 3820 CAH-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. Occasional.

LAE 3414 ED-TLP 3(3,0) Literature for Children: PR: Admission to Undergraduate Elementary Education Program or C.I. Criteria for analysis and evaluation of children's literature in terms of interests, needs, and abilities of children. Fall, Spring.

LAE 4314 ED-TLP 3(3,0) Language Arts in the Elementary School: PR: EDG 4323 or C.I. Content, principles, materials, and techniques involved in teaching, speaking, listening, writing, and spelling in the elementary school; organizing for instruction. Fall, Spring.

LAE 4342 ED-TLP 3(3,0) Teaching Language and Composition: PR: EDG 4323; CR: LAE 4360 and ESE 3940. Techniques and methods in teaching grammar, usage, dialect, and composition; includes meeting the needs of the new English language learner. Fall, Spring.

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. Fall, Spring.

LAE 4361 ED-TLP 3(3,0) Literacy Strategies for Middle and High School: PR: EDG 4323. Theory, teaching strategies, and resources for effective middle and high school reading programs, to assist pre-service teachers to understand content reading. Fall, Odd Spring.

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. Fall.

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. Occasional.

LAE 5295 ED-TLP 1-3(1-3,0) Writing Workshop: 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. Fall, Spring.

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. Fall.

LAE 5337 ED-TLP 3(3,0) Literacy Strategies for Middle and Secondary Teaching: PR: EDG 6236 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. Occasional.

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. Fall, Spring.

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. Fall, Spring.

LAE 5367 CAH-ENG 3(3,0) English Composition and Literature for Teachers of Advanced Placement: PR: Graduate status or senior standing, and C.I. A two-week summer institute for secondary school teachers preparing to teach Advanced Placement courses. Occasional.

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. Spring.

LAE 5465 ED-TLP 3(3,0) Literature for Adolescents: PR: Senior standing or C.I. Selecting and evaluating books for adolescents with emphasis on the use of literature in the development of young people. Fall.

LAE 5495 ED-TLP 3(3,0) Assessing Writing: PR: C.I. Students will explore a variety of strategies for assessing students' writing including holistic scoring, primary trait scoring, and portfolio assessment. Spring.


LAH 3400 CAH-HIST 3(3,0) History of Mexico and Central America: PR: EUH 2000 and 2001 or C.I. A survey of Mexican and Central American history from Pre-Columbian times to the present. Occasional.

LAH 3470 CAH-HIST 3(3,0) History of the Caribbean: PR: EUH 2000 and 2001 or C.I. History of Cuba, Puerto Rican, Dominican Republic, and Haiti from Pre-Columbian times to the present. Occasional.

LAH 4136 CAH-HIST 3(3,0) Colonial Florida: PR: AMH 2010 and AMH 2020 or C.I. History of Spanish Colonial Florida until 1821. Odd Fall.


LAH 4480 CAH-HIST 3(3,0) History of Cuba: PR: Any two of the following: AMH 2010, AMH 2020, WOH 2012, or WOH 2022. History of Cuba from pre-Columbian era to present. Occasional.

LAH 4742 CAH-HIST 3(3,0) The Mexican Revolution: PR: AMH 2020 or C.I. Political and social history of Mexico since 1910 and domination of one party rule over 70 years. Occasional.

LAH 5713 CAH-HIST 3(3,0) Colloquium in U.S.-Latin American Relations: PR: Graduate status or senior standing or C.I. The course will analyze U.S.-Latin American relations from an historical perspective. It will be presented through readings and discussion of selected materials. Occasional.

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. Fall, Spring.

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. Fall, Spring.

LAS 4023 CAH-AAS 3(3,0) African Caribbean Experience: PR: Junior standing or C.I. Interdisciplinary study of the evolution of African Caribbean culture, its influence on institutions, social and political movements, and contemporary Caribbean society. Occasional.

LAT 1120 CAH-LANG 4(4,1) Elementary Latin Language and Civilization I: PR: Permission of Honors. Introduces the student to Latin culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Fall.

LAT 1120H CAH-LANG 4(4,1) Honors Elementary Latin Language and Civilization I: PR: Permission of Honors. Introduces the student to Latin culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language, with honors-level content. Occasional.


LIN 3010 CAH-ENG 3(3,0) Principles of Linguistics: PR: Grade of C (2.0) or better required in ENC 1102. An overview of the modern linguist's approach to language. Analytic methods of phonology, morphology, syntax. Brief systematic survey of dialectology, language acquisition, and semantics. Occasional.

LIN 3703 COS-PSYCH 3(3,0) Psychology of Oral Communication: Psychological principles involved in the communicative process, with application to individuals and groups. Occasional.

LIN 3716 HPA-COM SC&DIS 3(3,0) Language Development: Birth Through 8 Years.: PR: DEP 2004. Study of the language acquisition process in children from birth through eight years and how meaning is conveyed through sounds, words, and sentences. Fall, Spring.

LIN 3717 HPA-COM SC&DIS 3(3,0) Language Development: 9 - 18 Years: PR: LIN 3716. Study of the language acquisition process in children from nine through eighteen years and how meaning is conveyed through sounds, words, and sentences. Fall, Spring.

LIN 4105 CAH-ENG 3(3,0) History of the English Language: PR: Sophomore standing, and C (2.0) or better required in ENC 1102. Study of the English language and its development from Anglo-Saxon to Modern. Fall, Spring.


LIN 4643 CAH-ENG 3(3,0) Cross Cultural Communication: PR: Junior standing or C.I., and C (2.0) or better required in ENC 1102. Study of spoken, written, and nonverbal communication of selected cultural groups. Occasional.

LIN 4643 CAH-ENG 3(3,0) Cross Cultural Communication: PR: Junior standing or C.I., and C (2.0) or better required in ENC 1102. Study of spoken, written, and nonverbal communication of selected cultural groups. Occasional.
LIN 4660 CAH-ENG 3(3,0) Linguistics and Literature: PR: Grade of C (2.0) or better required in LIN 3010 or C.I. Language study as an aid to understanding literature. Occasional.

LIN 4680 CAH-ENG 3(3,0) Modern English Grammar: PR: Sophomore standing, and C (2.0) or better required in ENC 1102. Emphasis upon the analysis and comparison of traditional, structural, and transformational grammar. Spring.

LIN 4711 HPA-COM SC&DIS 3(3,0) Language Analysis: PR: LIN 3716 and LIN 3717. CR: LIN 4711L. Introduction to procedures for sampling, analyzing, and describing language across the lifespan. Fall, Spring.

LIN 4711L HPA-COM SC&DIS 1(0,1) Language Analysis Lab: PR: LIN 3716 and LIN 3717. CR: LIN 4711. Introduction to procedures for sampling, analyzing, and describing language samples across the lifespan. Graded S/U. Fall, Spring.

LIN 4801 CAH-ENG 3(3,0) Language and Meaning: PR: ENC 1102 and Sophomore standing. A linguistic study of the nature of language, meaning, and the ways in which man uses language in various social, cultural, institutional, and professional settings. Occasional.

LIN 5137 CAH-ENG 3(3,0) Linguistics: PR: Graduate status or senior standing or C.I. Modern linguistic theories and studies focusing on language acquisition and development, contemporary American English, semantics, and para-linguistics. Occasional.

LIN 5675 CAH-ENG 3(3,0) English Grammar and Usage: PR: Graduate status or senior standing or C.I. An overview of modern grammar, including structural, transformational and rhetorical grammar, along with an examination of controversial usage. Occasional.

LIT 2000 CAH-ENG 3(3,0) Introduction to Literary Interpretation: PR: ENC 1102. Interpretation of fiction, drama, verse: conflict, characterization, point of view, rhetorical and poetic devices, figurative language, verse forms; application of critical approaches to selected works. Occasional.

LIT 2110 CAH-ENG 3(3,0) World Literature I: PR: ENC 1102. Poetry, prose, and drama selected from ancient Hebrew, Greek, and Oriental literature and from that of Renaissance Europe. Fall, Spring.

LIT 2120 CAH-ENG 3(3,0) World Literature II: PR: ENC 1102. Readings from Moliere, Voltaire, Goethe, Pushkin, Balzac, Tolstoy, Ibsen, Mann, Kafka, Camus, and others. Fall, Spring.

LIT 2120H CAH-ENG 3(3,0) World Literature II — Honors: PR: Permission of Honors. Same as LIT 2120, with honors-level content. Occasional.

LIT 3082 CAH-ENG 3(3,0) Continental European Fiction Since 1900: PR: Grade of C (2.0) or better required in ENC 1102. A selection of significant works of fiction written in various languages during the present century, read in translation. Occasional.

LIT 3192 CAH-ENG 3(3,0) Caribbean Literature: PR: Grade of C (2.0) or better required in ENC 1102. Traces how Caribbean societies have achieved self-expression through documentary writing, prose, fiction, and popular culture; in English. Occasional.

LIT 3192H CAH-ENG 3(3,0) Honors Caribbean Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. How Caribbean societies have achieved self-expression through documentary writing, prose fiction, and popular culture; taught in English. Honors content. Occasional.

LIT 3202 CAH-ENG 3(3,0) Death and Dying: PR: ENC 1102. Considering the topic of death and dying through a study of literature, the course includes facts, psychological impact, ideological responses to death and identity. Occasional.

LIT 3313 CAH-ENG 3(3,0) Science Fiction: PR: ENC 1102. An investigation of science fiction as a literary form, together with selected read- ings. Occasional.

LIT 3313H CAH-ENG 3(3,0) Honors Science Fiction Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. An investigation of science fiction as a literary form, together with selected readings. Honors content. Occasional.

LIT 3383 CAH-ENG 3(3,0) Women in Literature: PR: ENC 1102. Fiction, poetry, drama and non-fiction by selected women writers, such as Emily Dickinson, Jane Austen, George Eliot, Kate Chopin, Zora Neale Hurston, Toni Morrison, Adrienne Rich, Gwendolyn Brooks. Occasional.

LIT 3383H CAH-ENG 3(3,0) Honors Women in Literature: PR: Permission of Honors and ENC 1102H or equivalent credit. Fiction, poetry, drama and non-fiction by selected women writers, such as Emily Dickinson, Jane Austen, George Eliot, Kate Chopin, Zora Neale Hurston, Toni Morrison, Adrienne Rich, Gwendolyn Brooks. Honors content. Occasional.

LIT 3394 CAH-ENG 3(3,0) Literature of AIDS: PR: ENC 1102. To familiarize students with the new genre of literature that has arisen related to AIDS. Essays, short stories, plays, poetry, diaries, and novels will be covered. Occasional.

LIT 3394H CAH-ENG 3(3,0) Honors Literature of AIDS: PR: Permission of Honors and ENC 1102H or equivalent credit. Literature related to AIDS: Essays, short stories, plays, poetry, diaries, and novels. Honors content. Occasional.

LIT 3482 CAH-ENG 3(3,0) Literature & Popular Culture: PR: ENC 1102. Analysis of media to determine popular values in the formation of popular cultural perceptions. Occasional.

LIT 3823 CAH-ENG 3(3,0) Hispanic Women Writers: PR: ENC 1102. Hispanic women writers in a variety of genres. May be repeated for credit. Occasional.

LIT 3905 CAH-ENG 3(3,0) Directed experience in Literature: PR: ENC 1102, C.I. Individualized topics of study and/or research in literature with personalized faculty direction. May be repeated for credit. Occasional.

LIT 3911H CAH-ENG 1(1,0) Research Methods — Honors: PR: Permission of Honors. Introduction to scholarship and practical research in literature and writing. Occasional.

LIT 4043 CAH-ENG 3(3,0) Modern Drama As Literature: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. A study of important plays, playwrights, themes, movements, and styles in modern American, British, and European drama. Occasional.

LIT 4184 CAH-ENG 3(3,0) Irish Literature: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. Study of literature written in Ireland, within the context of Irish history, politics, culture, and colonial experience. Occasional.

LIT 4303 CAH-ENG 3(3,0) Post-World War II Fiction: PR: Grade of C (2.0) or better required in ENC 1102 and ENG 3014. An investigation of various modes of reality in the works of significant world authors, crossing cultural boundaries. Occasional.

LIT 4374 CAH-ENG 3(3,0) Literature of the Bible: PR: Grade of C (2.0) or better required in ENC 1102 or ENG 3014 or C.I. Literary forms in the Bible — narrative, poetic, and dramatic — and their reflection in modern literature. Occasional.

LIT 4374H CAH-ENG 3(3,0) Honors Literature of the Bible: PR: Permission of Honors and ENC 1102H or equivalent credit. Literary forms in the Bible — narrative, poetic, and dramatic — and their reflection in modern literature. Honors content. Occasional.

LIT 4433 CAH-ENG 3(3,0) Literature and Science and Technology: PR: ENC 1102 and Junior Standing or C.I. Major works of non-fiction that address and describe the history, philosophy, politics, and new ideas in science and technology. Fall.

LIT 4554 CAH-ENG 3(3,0) Advanced Feminist Theories: PR: Grade of C (2.0) or better required in ENC 1102, WST 3015 or ENG 3014. An advanced exploration of feminist critical theories and practices. Occasional.

LIT 4937H CAH-ENG 3(3,0) English Honors Seminar: PR: ENG 3014 and permission of Honors. In-depth study of language and/or literature with an emphasis on creative and critical abilities. Occasional.

LIT 5028 CAH-ENG 3(3,0) Form and Theory of Short Story: PR: Graduate status or senior standing or C.I. Evolving forms and theories of short fiction and the implications of form and theory. Occasional.

LIT 5269 CAH-ENG 3(3,0) Nineteenth-Century Essays: PR: Graduate status or senior standing or C.I. English non-fiction prose of the 19th century. Occasional.

LIT 5309 CAH-ENG 3(3,0) Popular Culture and Media: PR: Graduate status or senior standing or C.I. Study of contemporary media and the literature of popular culture. Occasional.

LIT 5366 CAH-ENG 3(3,0) The Romantic Revolt (19th Century Literature): PR: Graduate status or senior standing or C.I. The romantic revolt in poetry and prose; English, American and Continental literature from 1798 to 1832. Occasional.

LIT 5387 CAH-ENG 3(3,0) Captives, Housewives, and Coquettes: PR: Graduate status or senior standing or C.I. Course considers early American women's literature from 17th to 19th centuries. Occasional.

LIT 5389 CAH-ENG 3(3,0) Studies in Gender & Fiction Writing: PR: Graduate status or senior standing or C.I. Graduate level Feminist Theories from "French Feminism" to "Critical Race Theories." Occasional.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Prerequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAA 4227</td>
<td>COS-MATH Advanced Calculus II</td>
<td>3(3,0)</td>
<td>PR: MAA 4226 or C.I. Continuation of MAA 4226. Spring.</td>
</tr>
<tr>
<td>MAA 5210</td>
<td>COS-MATH Topics in Advanced Calculus</td>
<td>4(4,0)</td>
<td>PR: MAA 4226 or equivalent, graduate status or senior standing, or C.I. Topics in multivariable calculus, including limits, continuity, integration, differentiation, Taylor's theorem, inverse and implicit function theorems. Fall.</td>
</tr>
<tr>
<td>MAA 5405</td>
<td>COS-MATH Complex Variables</td>
<td>3(3,0)</td>
<td>PR: MAC 2313, and graduate status or senior standing or C.I. Analytic functions, integration in the complex plane. Laurent series and residue calculus. Inversion of Laplace transformations. Conformal mappings. Applications in engineering and the physical sciences. Fall.</td>
</tr>
<tr>
<td>MAA 5416</td>
<td>COS-MATH Foundations of Analysis</td>
<td>3(3,0)</td>
<td>PR: MAA 2253, and graduate status or senior standing or C.I. Topological spaces, compactness results, connectedness, analytical and differentiable manifolds, topological groups, Lie groups, representation theory for classical groups, Green, Stokes and Gauss' theorems. Odd Spring.</td>
</tr>
<tr>
<td>MAC 1105</td>
<td>COS-MATH College Algebra</td>
<td>3(3,0)</td>
<td>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, induc- tion. This course prepares students for higher-level mathematics courses. The &quot;NC&quot; grading policy applies to this course. Fall, Spring.</td>
</tr>
<tr>
<td>MAC 1105H</td>
<td>COS-MATH Honors College Algebra</td>
<td>3(3,0)</td>
<td>PR: Appropriate score on placement test and permission of Honors. Analysis of functions (including polynomial, rational, exponential, logarithmic), analysis of conic sections, analysis of systems of linear equations, sequences and series, mathematical induction, and the binomial theorem. The &quot;NC&quot; grading policy applies to this course. Occasional.</td>
</tr>
<tr>
<td>MAC 1114</td>
<td>COS-MATH College Trigonometry</td>
<td>3(3,0)</td>
<td>PR: MAC 1105 or 2 years of high school algebra or C.I. The circle arc length, circular functions, identities, inverse functions, applications to simple harmonic motion, function of angles, complete development of triangle solving. The &quot;NC&quot; grading policy applies to this course. Fall, Spring.</td>
</tr>
<tr>
<td>MAC 1140</td>
<td>COS-MATH Pre-Calculus Mathematics</td>
<td>3(3,0)</td>
<td>PR: Math placement test, or 2 years of high school algebra, or C.I. Properties and graphs of polynomials, rational, exponential and logarithmic functions, matrices, sequences and series, induction, binomial theorem. Prepares students for upper level mathematics. Fall, Spring.</td>
</tr>
<tr>
<td>MAC 2147</td>
<td>COS-MATH Mathematics for Calculus</td>
<td>5(5,0)</td>
<td>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. The &quot;NC&quot; grading policy applies to this course. Even Fall, Spring.</td>
</tr>
<tr>
<td>MAC 2233</td>
<td>COS-MATH Concepts of Calculus</td>
<td>3(3,0)</td>
<td>PR: MTH 1105 and C.I. The differential and integral calculus of rational, exponential and logarithmic functions. Applications to business analysis. Not open to students with credit in MAA 2223 or MAC 2311. The &quot;NC&quot; grading policy applies to this course. Fall, Spring.</td>
</tr>
<tr>
<td>MAC 2241</td>
<td>COS-MATH Calculus for Life Sciences</td>
<td>4(4,0)</td>
<td>PR: MTH 1105. Discrete dynamical systems, derivatives and dynamics, applications of derivatives, integrals and their applications. For biologists and others required to have one semester of calculus. The &quot;NC&quot; grading policy applies to this course. Occasional.</td>
</tr>
<tr>
<td>MAC 2253</td>
<td>COS-MATH Applied Calculus I</td>
<td>3(3,0)</td>
<td>PR: MTH 1105 and MTH 1114 or C.I. Differentiation and integration. An introduction to differential equations and Laplace Transforms. Applications to engineering technology. Not open to students with credit in MAC 2253 or MTH 2251. The &quot;NC&quot; grading policy applies to this course. Fall, Spring.</td>
</tr>
<tr>
<td>MAC 2254</td>
<td>COS-MATH Applied Calculus II</td>
<td>3(3,0)</td>
<td>PR: MTH 2253 or C.I. Continuation of MAC 2253. Fall, Spring.</td>
</tr>
<tr>
<td>MAC 2311</td>
<td>COS-MATH Calculus with Analytic Geometry I</td>
<td>4(4,0)</td>
<td>PR: MTH 1105 and MTH 1114 or equivalent or C.I. The differential and integral calculus of algebraic and elementary transcendental functions with geometric and physical applications. Topics from analytic geometry include coordinate systems, vectors, lines, conic sections, transformations of coordinates, and polar coordinates. During the 2nd and 3rd semesters the topics also include sequences and series, Taylor's series, and the differential and integral calculus for functions of several variables. The &quot;NC&quot; grading policy applies to this course. Fall, Spring.</td>
</tr>
<tr>
<td>MAC 2311H</td>
<td>COS-MATH Calculus with Analytic Geometry I</td>
<td>4(4,0)</td>
<td>PR: Permission of Honors. Differential and integral calculus, emphasizing understanding basic concepts and their applications. Students will complete projects on their own. For honors students from all disciplines. The &quot;NC&quot; grading policy applies to this course. Occasional.</td>
</tr>
<tr>
<td>MAC 2312</td>
<td>COS-MATH Calculus with Analytic Geometry II</td>
<td>4(4,0)</td>
<td>PR: Permission of Honors. Continuation of MAC 2311H. Occasional.</td>
</tr>
<tr>
<td>MAC 2312H</td>
<td>COS-MATH Calculus with Analytic Geometry II</td>
<td>4(4,0)</td>
<td>PR: Permission of Honors. Continuation of MAC 2311H. Occasional.</td>
</tr>
<tr>
<td>MAC 2313</td>
<td>COS-MATH Calculus with Analytic Geometry III</td>
<td>4(4,0)</td>
<td>PR: MAC 2312 or C.I. Continuation of MAC 2312H. Fall, Spring.</td>
</tr>
<tr>
<td>MAC 3103H</td>
<td>COS-MATH Systems Modeling and Simulation</td>
<td>3(3,0)</td>
<td>PR: Permission of Honors and MAC 2312. Population growth dynamics; spread of an epidemic; ecological predator-prey relationships; insulin and its use in the control of diabetes; economic systems. Occasional.</td>
</tr>
<tr>
<td>MAD 2014</td>
<td>COS-MATH Foundations of Discrete Math</td>
<td>3(3,0)</td>
<td>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 structure. Fall, Spring.</td>
</tr>
<tr>
<td>MAD 4203</td>
<td>COS-MATH Applied Combinatorics</td>
<td>3(3,0)</td>
<td>PR: MTH 2312, and either MTH 3302 or COT 3100C, or C.I. Counting principles; permutations and combinations; multisets; recurrence relations and generating functions; combinatorial designs; the Pólya theory of counting. Fall.</td>
</tr>
<tr>
<td>MAD 4301</td>
<td>COS-MATH Graph Theory</td>
<td>3(3,0)</td>
<td>PR: MTH 2312 and MTH 3302, or C.I. Graph theory; isomorphism, connectivity, traversability, matchings, factorizations; planarity, colorings, and Ramsey number. Spring.</td>
</tr>
<tr>
<td>MAD 5205</td>
<td>COS-MATH Combinatorics and Graph Theory II</td>
<td>3(3,0)</td>
<td>PR: MAD 4203, graduate status or senior standing, or C.I. Polya's theory of counting; Latin squares and rectangles; block designs; coding theory; probabilistic methods; hypergraphs; applications. Odd Spring.</td>
</tr>
<tr>
<td>MAE 2801</td>
<td>ED-TLP Elementary School Mathematics</td>
<td>3(4,3)</td>
<td>PR: MTH 1105 or MGF 1106. Mathematics appropriate for the elementary school including the six basic sets of numbers, concepts, learning sequences, algorithms, problem-solving techniques, error patterns, number systems, and geometry. Fall, Spring.</td>
</tr>
<tr>
<td>MAE 3400</td>
<td>ED-CFCS Math Curriculum and Assessment in Early Childhood</td>
<td>3(3,0)</td>
<td>PR: EDG 4000. ECE Theory and Practice, EEC 4207, or EEC 3940. Methodologies for teaching and assessing young children in mathematics concepts and skills through an integrated, developmentally appropriate program. Fall.</td>
</tr>
<tr>
<td>MAE 4326</td>
<td>ED-TLP How Children Learn Mathematics</td>
<td>3(3,0)</td>
<td>PR: MTH 2201 or C.I., and admission to Phase II. Instructional strategies, learning activities, the use of manipulatives, lesson planning, evaluation of mathematical learning, and diagnostic techniques. Fall, Spring.</td>
</tr>
<tr>
<td>MAE 4360</td>
<td>ED-TLP Mathematics Instructional Analysis</td>
<td>4(3,2)</td>
<td>PR: EDG 4323. Study of course objectives for the middle grades and high school curriculum and survey of methods and materials which have special application for teaching mathematics. Fall.</td>
</tr>
<tr>
<td>MAE 4634</td>
<td>ED-TLP Programs in Teaching Mathematics</td>
<td>3(2,1)</td>
<td>PR: C.I. A consideration of special programs, strategies, and materials. Emphasis on individual needs of students. Spring.</td>
</tr>
<tr>
<td>MAE 5318</td>
<td>ED-TLP Current Methods in Elementary School Mathematics</td>
<td>3(3,0)</td>
<td>PR: EDG 4323. Strategies of instruction of computation and concepts of number, geometry, and measurement; instructional materials. (Meets Elementary Education certification requirements.). Fall, Spring.</td>
</tr>
<tr>
<td>MAE 5327</td>
<td>ED-TLP Teaching Middle School Mathematics</td>
<td>3(3,0)</td>
<td>PR: EDG 6238 or C.I. Students will develop skills in planning and delivering mathematics instruction in grades 5-9. The use of technology, cooperative learning, ESOL, and manipulatives is considered. Occasional.</td>
</tr>
<tr>
<td>MAE 5336</td>
<td>ED-TLP Current Methods in Secondary School Mathematics</td>
<td>3(3,0)</td>
<td>PR: EDG 4323 or EDG 6238 or C.I. Required special methods course for mathematics 6-12 certification. Assessment, curriculum, technology, practical classroom ideas and activities. Occasional.</td>
</tr>
<tr>
<td>MAE 5935</td>
<td>COS-MATH Post-Secondary Mathematics</td>
<td>3(3,0)</td>
<td>PR: Graduate status or senior standing or C.I. The course will focus on issues which are faced by teachers of collegiate mathematics. Topics will be selected from teaching issues, program issues, and other issues. Even Fall.</td>
</tr>
</tbody>
</table>
Management of Organizations: PR: Junior standing and business major or minor, ACG 2071, ECO 2013, ECO 2023. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior and control. Fall, Spring.

Honors Management of Organizations: PR: Junior standing and business major or minor, permission of Honors, ECO 2013, ECO 2023 and ACG 2071. Introduction to the theory and practice of managing formal organizations, including planning, organization theory, human behavior, and control. Applicable to honors students. Occasional.

Management of Human Resources: PR: Management major, MAN 3025, Junior Standing. Provides students with a complete, comprehensive review of essential human resource management concepts and techniques. Applicable to all students of management. Fall, Spring.


Human Relations in Management: PR: Management major, MAN 3025. The study of individual, interpersonal, group, and intergroup problems in business organizations through the use of case studies and experimental exercises. Fall, Spring.


Human Resource Management Issues: PR: Management major, Junior standing, MAN 3301. An application-oriented course to give students in the area experiences generally reserved for practitioners in the field of human resource management and labor relations. Odd Spring.

Human Resources Recruitment and Selection: PR: Management major, MAN 3025. A concentrated investigation of the methods appropriate to the development, implementation and administration of the staffing process in contemporary organizations. Fall, Spring.

Compensation Administration: PR: Management major, MAN 3301. Presentation of compensation theory and current pay related issues and their application to the design and administration of pay systems in large and small organizations. Fall, Odd Spring.

Training and Development: PR: Management major, MAN 3301. This course focuses on training and development activities as performed by organizational specialists. Theory, issues, practices and problems are discussed. Fall, Spring.

Labor Relations Management: PR: Management major, Junior standing, MAN 3301. The impact of employee organizations on labor relations, current problems, conflicts and trends; the development of managerial approaches to achieve labor-management cooperation. Occasional.


Production Planning and Control: PR: Management major, ISM 3530. In depth study on long-range, intermediate-range and short-range planning and control methods as applied to a manufacturing organization. Occasional.

International Management: PR: Management major, GEB 4361. The course examines issues involved in multinational management of business firms, with special emphasis on comparative management. Fall, Spring.

Business Ethics and Society: PR: Management major, MAN 3025. This course applies the ethics dimension to business decisions in today’s complex political, social, economic and technological environment. Fall, Spring.

Strategic Management: PR: MAN 3025, MAR 3023, FIN 3403 and GEB 3031. Students assume a strategic view of organizations and integrate and apply material learned in their business courses to modern organizational problems and opportunities. Fall, Spring.


Entrepreneurship: PR: GEB 3031 or (MAN 3025 and MAR 3023). Study of small business and start-up management, including planning, feasibility, planning, product development, organizing, and financing. Fall, Spring.

Small Business Consulting: PR: 3.0 GPA and Business major in graduation term or C.I. Students are assigned teams and work with a local small business. Occasional.

Management Internship: PR: Management major, application approval, consent of department chair. Provides students with supervised, management-related work experience in a sponsoring organization. See department for information; application required. FALL: NOTE: MAN 4941 may not be counted for restricted elective credit in management. May be repeated for credit. Occasional.

Management Foundations: PR: Graduate standing or C.I. Theory and practice of managing organizations to include planning, organizational theory, human behavior, and control. Fall, Spring.

Management Concepts: PR: Acceptance in MBA program, Theory and practice of managing organizations to include planning, organizational theory, human behavior, and control. Occasional.

Small Business Institute: PR: C.I. Hands-on small business consulting course. Students are assigned teams and work with a local small business. Even Fall, Even Spring.
Applications to regression analysis, differential and integral univariate splines and their application to data fitting.

MAP 5363 COS-MATH 3(3,0)

MAP 5385 COS-MATH 3(3,0)
Applied Numerical Mathematics: PR: MAP 2302, graduate status or senior standing, or C.I. Classical topics or numerical analysis and their applications, Romberg integration, Richardson extrapolation, Gaussian quadrature schemes. Spring.

MAP 5396 COS-MATH 3(3,0)
Splines and Data Fitting: PR: MAS 3106, MAS 3105, MAP 2302, and graduate status or senior standing or C.I. Univariate splines and their application to data fitting. Applications to regression analysis, differential and integral equations. Algorithms to use different types of splines in computation. Occasional.

MAP 5404 COS-MATH 3(3,0)
Mathematical Foundations for Industrial Engineering and Operations: PR: MAP 2302, ESI 5219 or equivalent, ESI 4532, and graduate status or senior standing or C.I. Methods of proof, set theory, basic elements of topology, real analysis, graph theory, and matrix analysis. Occasional.

MAP 5407 COS-MATH 3(3,0)

MAP 5426 COS-MATH 3(3,0)
Special Functions: PR: MAP 2302, and graduate status or senior standing or C.I. Linear Algebra and matrix methods, ordinary differential equations, Fourier series, partial differential equations, numerical methods for differential equations, and applications to engineering. Occasional.

MAP 5435 COS-MATH 3(3,0)
Advanced Mathematics for Engineers: PR: MAP 2302, and graduate status or senior standing or C.I. Abstract vector spaces, linear transformations, isomorphism, norms, completeness. Equations of motion in inviscid and viscous fluids, energy equation and energy flux, linear theory of gravity and capillary-gravity waves, variational principles for water waves. Occasional.

MAP 5514 COS-MATH 3(3,0)
Linear and Nonlinear Waves I: PR: MAP 2302, MAP 4363, and graduate status or senior standing, or C.I. Introduction to shell theory, linear and nonlinear theories, nonlinear differential equations, numerical methods for shell equations, and applications to engineering. Occasional.

MAP 5931 COS-MATH 1(1,0)
Research Seminar: PR: Graduate status or senior standing or C.I. Four instructors will introduce the students to a research area by presenting necessary background and presenting current investigations. Different branches of mathematics will be presented for a sense of diversity. Occasional.

MAR 3023 BA-MAR 4(4,0)
Marketing: PR: Admission to UCF. Study of functions, institutions, and basic problems in marketing of goods and services in our domestic economy and abroad. Fall, Spring.

MAR 3023H BA-MAR 4(4,0)
Marketing - Honors: PR: Permission of Honors College. Honors introductory course in marketing. Topics include customer orientation, segmentation, positioning, strategic marketing management, implementation, and control. Fall.

MAR 3323 BA-MAR 3(3,0)
Marketing Communication: PR: MAP 2302 and common program prerequisites and appropriate Major or Minor. Introduction to marketing communication programs. Fall, Spring.

MAR 3391 BA-MAR 3(3,0)
Integrated Marketing Communication: PR: MAP 2302 and common program prerequisites and appropriate Major or Minor. Written and verbal presentations skills applied to marketing settings. A significant portion of the course is devoted to the study of professional selling. Fall, Spring.

MAR 3403 BA-MAR 3(3,0)
Sales Force Management: PR: MAP 3203 and common program prerequisites and appropriate Major or Minor. An overview of the sales management process. Emphasis on sales program formulation and implementation. Fall, Spring.

MAR 3503 BA-MAR 3(3,0)
Customer Behavior: PR: MAP 3203 and common program prerequisites and appropriate Major or Minor. Understanding customer buying behavior, building long-term customer relationships, segmentation of markets and positioning strategies. Fall, Spring.

MAR 3613 BA-MAR 3(3,0)
Marketing Analysis and Research: PR: MAP 3203 and common program prerequisites and appropriate Major or Minor. Emphasis on statistical analysis for marketing decision making. Forecasting, financial analysis, and acquisition of primary data through market research are emphasized. Fall, Spring.

MAR 3641 BA-MAR 3(3,0)
Marketing Intelligence: PR: MAP 3203 and common program prerequisites and appropriate Major or Minor. Contemporary sources and applications of information concerning external forces impacting market decision making. Fall, Spring.

MAR 3880 BA-MAR 3(3,0)
E-Marketing: PR: MAP 3203 and common program prerequisites and appropriate Major or Minor. Contemporary sources and applications of information concerning external forces impacting market decision making. Fall, Spring.

MAR 4156 BA-MAR 3(3,0)
International Marketing: PR: MAP 3203 and common program prerequisites and appropriate Major or Minor. Investigates strategy, policy, and the variables in international marketing decisions. Fall, Spring.

MAR 4231 BA-MAR 3(3,0)
Retailing Management: PR: MAP 3203 and common program prerequisites and appropriate Major or Minor. Analysis of the field of retailing. Emphasis on planning for profit through management, inventory control, etc. Occasional.

MAR 4392 BA-MAR 3(3,0)
Advanced Professional Selling: PR: MAP 3203 and common program prerequisites and appropriate Major or Minor and MAP 3901 and Department Consent. Advanced study of the professional selling process, including team selling, negotiating, customer conflict management, and CRM systems. Fall.

MAR 4413 BA-MAR 3(3,0)
Strategic Issues in Sales: PR: MAP 3203 and common program prerequisites and appropriate Major or Minor and MAR 4392 and Department Consent. Advanced study of selected contemporary strategic issues in selling and sales management. Spring.

MAR 4711 BA-MAR 3(3,0)
Sport Marketing: PR: MAP 3203 and common program prerequisites and appropriate Major or Minor. Study of marketing as it applies to the sports and leisure industry. Occasional.

MAR 4712 BA-MAR 3(3,0)
Healthcare Marketing: PR: MAP 3203 and common program prerequisites and appropriate Major or Minor. Study of marketing as it applies to healthcare manufacturers, intermediaries and providers. Occasional.

MAR 4715 BA-MAR 3(3,0)
Entertainment Marketing: PR: MAP 3203 and common program prerequisites and appropriate Major or Minor. Application of marketing theory and tools to the marketing of products and services in the entertainment industry. Occasional.

MAR 4724 BA-MAR 3(3,0)

MAR 4803 BA-MAR 3(3,0)
Marketing Management: PR: MAP 3203 and common program prerequisites and appropriate Major or Minor and MAR 3503 and MAR 3613. Planning, organizing, implementing, monitoring and controlling marketing programs to effectively compete in dynamic and diverse business environments. Fall, Spring.

MAR 4804 BA-MAR 3(3,0)
Marketing Strategy: PR: MAP 3203 and common program prerequisites and Marketing Major or Minor and MAR 4803. Marketing problems are explored, with emphasis on strategy formulation and integrative marketing decision-making. Fall, Spring.

MAR 4841 BA-MAR 3(3,0)
Services Marketing: PR: MAP 3203 and common program prerequisites and appropriate Major or Minor. Examination of marketing in services industries, with particular emphasis on unique aspects of services marketing, the service marketing mix, and the implementation of services strategies. Fall, Spring.

MAR 4941 BA-MAR 3(3,0)
Marketing Internship: PR: Marketing major, application approval, consent of department chair. Provides student with supervised, market-related work experience in a sponsoring organization. Application required. Fall, Spring.

MAS 3105 COS-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. Fall, Spring.

MAS 3106 COS-MATH 4(4,0)
Linear Algebra: PR: MAC 2312. MAS 3105, or C.I. Abstract vector spaces, linear transformations, isomorphisms, projections, innerproducts, the spectral theorem, Jordan Canonical Form. (Only offered spring semester). Spring.

MAS 3203 COS-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. Spring.
MAS 4301 COS-MATH 3(3,0) Abstract Algebra I: PR: MHF 3302 and MAS 3106, or C.I. Sets and mappings, groups, subgroups, permutation groups, homomorphisms and isomorphisms, the isomorphism theorems, groups actions, the class equation, Sylow theorems, and rings. Fall.

MAS 4302 COS-MATH 3(3,0) Abstract Algebra II: PR: MAS 4301 or C.I. Advanced topics in abstract algebra, including ring theory and field theory; introduction to Galois theory. Spring.

MAS 4934 COS-MATH 3(3,0) Topics in Algebra and Discrete Mathematics: PR: MAS 3106, MAS 4301, and MAD 4203 or MAD 4031, or C.I. Advanced topics in abstract algebra and discrete mathematics. Selection of topics will vary. May be used in the degree program a maximum of 3 times. Occasional.

*Note: The published catalog's description of this course was incorrect.

MAS 5145 COS-MATH 3(3,0) Advanced Linear Algebra and Matrix Theory: PR: MAS 3105, and graduate status or senior standing or C.I. LU and LDL decompositions, linear spaces, inner product spaces, systems of linear equations, eigenvalues and canonical forms, variational principles and applications. Occasional.

MAS 5311 COS-MATH 3(3,0) Abstract Algebra with Applications: PR: MAS 4301 or undergraduate abstract algebra, and graduate status or senior standing or C.I. Group actions, the class equation, Sylow Theorems, polynomial rings, Euclidian domains, principal ideal domains, field extensions, modules, and semisimple rings. Fall.

MAT 5711 COS-MATH 3(3,0) Scientific Computing: PR: MAC 2313, MAP 2302, graduate status or senior standing, 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. Fall.


MCB 3020C BCBS-M&M 5(3,4) General Microbiology: PR: BSC 2010C, CHM 2046, or CR: CHM 2210. Fundamentals of microbiology, evaluating microbial structure and function, metabolism, growth, genetics, virology, environmental control, ecology, pathogenicity; and laboratory techniques. Fall, Spring. M&S fee: $45.00.

MCB 3020H BCBS-M&M 5(3,5) General Microbiology Honors: PR: BSC 2010C, CHM 2046 or CR: CHM 2210, and consent of Honors. Same as MCB 3020C with enrichment and further development of analytical skills in a separate laboratory and discussion section. With Honors content. Fall.

MCB 3023 BCBS-M&M 3(3,0) Pathogenic Microbiology: PR: MCB 3020C or C.I. Microorganisms producing disease in man and other animals; means of transmission; protection against disease. Spring.

MCB 3023L BCBS-M&M 1(0,3) Pathogenic Microbiology: CR: MCB 3023. Laboratory investigation of pathogenic microorganisms, with emphasis on isolation and identification of pathogenic microorganisms. Spring. M&S fee: $45.00.

MCB 3404 BCBS-M&M 3(3,0) Bacterial Genetics and Physiology: PR: MCB 3020C. Basic principles of microbial physiology and emphasizing the biochemistry of microbial genetics. Fall.


MCP 4203 BCBS-M&M 3(3,0) Infectious Processes: PR: MCB 3020C. The infectious process and the response of host cells and tissue to infection. Fall.

MCP 4204 BCBS-M&M 3(3,0) Cellular Microbiology: Host-Pathogen Interactions: PR: MCB 3020C, PCB 3522. Examination of the molecular details of host-pathogen interactions. Key areas of cell biology will be considered in relation to microbial pathogenesis. Spring.

MCP 4276 BCBS-M&M 3(3,0) Epidemiology of Infectious Diseases: PR: MCB 3020C. Study of descriptive and analytic epidemiology and its application to the analysis of infectious diseases and in the community health status. Spring.

MCP 4312 BCBS-M&M 3(3,0) Molecular Biotechnology: PR: MCB 3020C. Principles, techniques, and applications of Molecular Biotechnology in the analysis of infectious diseases and in the community health status. Spring.

MCP 4414 BCBS-M&M 3(3,0) Microbial Metabolism: PR: MCB 3020C, CR: BCH 4503. Interrelationships between cellular structure function and genetic traits in microorganisms. The interaction between microorganisms and their nutritional environment. Fall, Spring.


MCP 4603 BCBS-M&M 3(3,0) Environmental Microbiology: PR: MCB 3020C. Fundamentals of microbiology, evaluating microbial structure and function, metabolism, growth, genetics, virology, environmental control, ecology, pathogenicity; and laboratory techniques. Fall, Spring. M&S fee: $45.00.

MCP 5205 BCBS-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. Fall.

MCP 5208 BCBS-M&M 3(3,0) Cellular Microbiology: Host-Pathogen Interactions: PR: Graduate Standing, PCB 3522. Examination of the molecular details of host-pathogen interactions. Key areas of cell biology will be considered in relation to microbial pathogenesis. Spring.


MCP 5505 BCBS-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. Occasional.

MCP 5527 BCBS-M&M 3(3,0) Genetic Engineering and Biotechnology: PR: PCB 3522 and PCB 4524 or C.I. Principles of Genetic Engineering and Biotechnology in Bacteria, Yeast, Viral, Mammalian, Non-mammalian systems. Plants, including human gene therapy, novel pharmaceuticals, recombinant proteins will be discussed in depth. Fall.

MCP 5654 BCBS-M&M 3(3,0) Applied Microbiology: PR: MCB 3020C or C.I. Microbial biochemistry of industrial processes including: economics, scaling, scale up, quality control and applied genetics. Occasional.

MCP 5722C BCBS-M&M 4(2,4) Methods in Biotechnology: PR: Graduate standing. A laboratory course that will train graduate students in fluorescence and luminescence-based assays used in biopharmaceutical industry for target validation. Occasional.

MCP 5932 BCBS-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. Occasional.

MGF 1106 COS-MATH 3(3,0) Finite Mathematics: PR: Intermediate algebra or 2 years of high school algebra or C.I. Introduction: logic, set theory, sets, probability, geometry, arrays, games. This course is intended for students who are not planning to take further courses in mathematics. Fall, Spring.

MGF 1107 COS-MATH 3(3,0) Explorations in Mathematics: PR: Intermediate algebra or 2 years of high school algebra. The beauty and utility of mathematics, including patterns and symmetry, voting strategies, and finance. Connections between math and music, art, architecture, and nature. For students not intending to take higher mathematics. Fall, Spring.


MCP 4404 COS-MATH 3(3,0) History of Mathematics: PR: MAC 2312 or C.I. A chronological study of the evolution of mathematical thought from prehistoric counting through modern ideas of the 20th century. Recommended for prospective teachers in mathematics. Fall.

MHS 2330 ED-CFCS 3(3,0) Career Planning: Introduction to career and life planning theories and concepts that assists students in applying these to their own lives. Odd Fall, Even Spring.

MHS 2441 ED-CFCS 3(3,0) Marriage and Intimate Relationships: Examination of the dynamics of intimate relationships, dating, courtship, and relationships. Occasional.
MLS 4630 BCBS-M&M 3(3,0)
Advanced Clinical Chemistry II: PR: CHM 2210, PCB 3703C or C.I. Correlation of laboratory tests to specific human disease states. Spring.

MLS 4630L BCBS-M&M 1(0,3)

MLS 4830C BCBS-M&M 4(4,8)
Interpretive & Practical Clinical Chemistry: PR: Admission to the MLS program. MLS 4625, MLS 4630. Clinical instruction and practice in the clinical chemistry laboratory. Case studies, chemist review, hands on practice both in the student lab and affiliate. Fall. M&S fee: $15.00

MLS 4831C BCBS-M&M 4(4,8)
Interpretive & Practical Immunohematology: PR: Admission to the MLS program, MLS 4550, MLS 4565C. Advanced study of principles of immunohematology. Application and performance of technique to solve problems in blood banking will be included. Fall. M&S fee: $15.00

MLS 4832C BCBS-M&M 4(4,8)
Diagnostic Microbiology: PR: Admission to the MLS program, MLS 3305, MLS 4334. Advanced study of hematology and pathophysiological correlation to hematology disorders. Correlation of case studies and clinical practice in both student labs and clinical affiliates. Fall. M&S fee: $15.00

MLS 4833C BCBS-M&M 4(4,8)
Diagnostic Microbiology: PR: Admission to the MLS program, MLS 4460C. Practical application of modern bacteriological procedures with clinical specimens to include mycology & virology and appropriate quality control. Clinical practice in both student lab and affiliate. Fall. M&S fee: $15.00

MLS 4834C BCBS-M&M 4(4,8)
Advanced Instrumentation: PR: Admission to the MLS program, MLS 4630, MLS 4550. Introduces MLS students to different types of research within the clinical setting. Spring.

MLS 4910 BCBS-M&M 1(1,0)
Introduction to Clinical Research: PR: MLS 3202C, MLS 4625, MLS 4550. Introduces MLS students to different types of research within the clinical setting. Spring.

MLS 4933 BCBS-M&M 2(2,0)

MMC 2004 COS-COMM 3(3,0)
Mass Media: Introduction to the nation's mass media, including newspapers, radio, television, magazines, advertising, and public relations. Fall, Spring.

MMC 3200 COS-COMM 3(3,0)
Mass Communication Law: PR: AMH 2010 or AMH 2020 or POS 204L. Legal rights and responsibilities of the mass media. Fall, Spring.

MMC 3420 COS-COMM 3(3,0)
Mass Media Research Methods: PR: Communication major. Theory and methods of research used by media professionals and academics, focusing on radio / TV and advertising / public relations research. Fall, Spring.

MMC 4263 COS-COMM 3(3,0)
New Media Technologies: PR: Majors only, RTV 3200. An examination of the technologies impacting the communications media environment and society. Occasional.

MMC 4301 ECS-AROTC 3(3,0)
Leadership and Management: PR: MSL 3202C. Discuss staff organization, functions, and processes, analyze counseling responsibilities and methods, apply leadership and problem solving principles to a complex case study/simulation. Fall.

MMC 4302 ECS-AROTC 4(3,1)
Leadership and Ethics: PR: MSL 3201C. Probes leadership responsibilities that foster an ethical command climate; develops cadet leadership competencies; applies principles and techniques of effective written and oral communication. Spring.

MMC 4411 COS-COMM 3(3,0)
AdPrcampaigns: PR: ADPS teachers only and ADV 308, PUR 4000 and either PUR 3100 or ADV 410L. Planning and managing communication Campaigns that integrate both advertising and public relations strategies. Even Fall; Odd Spring.

MMC 4602 COS-COMM 3(3,0)
Contemporary Media Issues: PR: A minimum grade of "C" (2.0) in JOU 2100C. Relationship between the mass media and society; examination of social and ethical issues and responsibilities of the media's relationship with government. Even Spring.
MTG 4302 COS-MATH 3(3,0)
Introduction to Topology: PR: MHF 3302 and MAS 3106 or C.I. Metric spaces, topological spaces, limit points, continuity, compactness, and connectedness. Spring.

MTG 5256 COS-MATH 3(3,0)
Differential Geometry: PR: MAA 4227, graduate status or senior standing, or C.I. Differentiable manifolds, tangent space and tangent bundle, flows and vector fields, Lie derivatives, cotangent space and cotangent bundle, Riemann metrics, connections and geodesics, applications in classical mechanics. Occasional.

MUC 1101C CAH-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. Fall, Spring.

MUC 2104C CAH-MUSIC 2(1,1)
Composition II: PR: MUC 1101C and Music or composition major. Continuation of Composition I. Competence determined by faculty jury. May be repeated for credit. Fall, Spring.

MUC 3105C CAH-MUSIC 2(1,1)
Composition III: PR: MUC 2104C and competence determined by faculty jury. Continued study of composition with additional intensive work expected for composition majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MUC 3311 CAH-MUSIC 3(2,2)
MIDI Sequencing I: PR: Keyboard ability and reading music or C.I. Utilization of synthesizers, drum machines, and computers with MIDI sequencing software to create music. Fall, Spring. M&S fee: $15.83

MUC 4106C CAH-MUSIC 4(1,1)
Composition IV: PR: MUC 3105C and competence determined by faculty jury. Intensive advanced study of composition for composition majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MUC 4313 CAH-MUSIC 3(3,0)
MIDI Sequencing II: PR: MUC 4441, Junior standing or C.I. Technical aspects of MIDI usage, including MIDI specification, sysex, and MIDI machine control. Occasional.

MUC 4441 CAH-MUSIC 3(3,0)
MIDI Sequencing III: PR: MUC 3311, Junior standing, and C.I. Continuation of sequencing, sampling, and interactive digital music technology. Spring. M&S fee: $15.83

MUC 4611C CAH-MUSIC 3(2,1)
Computer Animation and Digital Music: PR: MUC 4441 or FIL 3286C and C.I. Music students and computer animation students work collaboratively to produce animation projects with original musical scores and sound effects. Occasional.

MUC 4612C CAH-MUSIC 3(2,2)

MUC 4950 CAH-MUSIC 0(0,0)
Composition Recital: CR: MUC 4106C. Culminating public concert of works written while studying Composition I-V. Graded S/U. Odd Fall.

MUC 5112 CAH-MUSIC 2(1,0)
Composition V: PR: Graduate standing in music education or C.I. Advanced music composition at the graduate level. May be used in the degree program a maximum of 4 times. Occasional.

MUE 1291 CAH-MUSIC 1(0,1)
Instrumental Classes: Instruction in recorder and guitar, as it applies to classroom usage for music educators. Odd Fall.

MUE 2040 CAH-MUSIC 2(2,0)

MUE 2211 ED-CFCS 3(3,0)

MUE 2346 CAH-MUSIC 1(0,2)
Vocal Techniques: PR: Music major or C.I. Vocal function, anatomy, and pedagogical methodology with applications for K-12 teaching. Odd Spring.

MUE 2440 CAH-MUSIC 1(0,2)
String Techniques: PR: MUED major, junior standing or C.I. Class instruction in string playing and pedagogical techniques. Spring. M&S fee: $30.00

MUE 2450 CAH-MUSIC 1(0,2)
Woodwind Techniques I: PR: MUED major, Junior standing or C.I. Class instruction in woodwind playing and pedagogical techniques. Fall.

MUE 2460 CAH-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. Fall.

MUE 2470 CAH-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. Spring. M&S fee: $35.00

MUE 2471 CAH-MUSIC 1(1,1)
Percussion Techniques II: PR: MUED 2470 or C.I. Additional performing and teaching techniques of the percussion family, as relevant to today's instrumental music teachers. Odd Spring.

MUE 3210 ED-TLP 1(1,0)

MUE 3333 CAH-MUSIC 3(3,0)

MUE 3353 CAH-MUSIC 2(2,0)

MUE 3451 CAH-MUSIC 1(1,0)
Woodwind Techniques II: PR: MUE 2450, MUED major, Junior standing or C.I. Continuation of Woodwind Techniques I, with emphasis on double reeds. Occasional.

MUE 3461 CAH-MUSIC 1(1,1)
Brass Techniques II: PR: MUE 2460. Continued study of performance techniques, teaching skills, resources, and materials required to teach brass instruments to beginning, middle, and high school level students. Odd Spring.

MUE 3490 CAH-MUSIC 1(1,0)

MUE 3693 CAH-MUSIC 2(2,0)
Technology in Music Education: PR: MUE 2040 or C.I. Productivity software, classroom management tools, web design and other technological tools for classroom teaching. Odd Spring.

MUE 4311 ED-TLP 2(2,0)
Elementary School Music Methods: PR: Junior standing, MUED major. Organization and administration of instruction for comprehensive music education, K-6; instructional planning, techniques, and materials for elementary music education. Fall.

MUE 4330 ED-TLP 2(2,0)
Secondary School Music Methods: PR: MUE 4311 or C.I. Instructional planning, techniques and materials in middle school, junior high and senior high classrooms; consideration of general music education program, evaluation materials and procedures. Spring.

MUE 4331 CAH-MUSIC 3(3,0)
Secondary Choral Methods I: PR: MUE 2040 or C.I. Examination of vocal and choral literature, planning skills and rehearsal techniques for choral groups. Odd Spring.

MUE 4332 CAH-MUSIC 3(3,0)
Secondary Instrumental Methods I: PR: MUE 2040. Wind, percussion, and string teaching methods for beginning and middle level students in a large classroom setting. Odd Spring.

MUE 4335 CAH-MUSIC 3(3,0)
Secondary Choral Methods II: PR: MUE 4331. Continued examination of vocal and choral literature, planning skills and rehearsal techniques for choral groups. Odd Spring.

MUE 4337 CAH-MUSIC 3(3,0)

MUE 4350 ED-TLP 2-3(2-3,0)

MUE 4354 ED-TLP 3(3,0)

MUE 4393 CAH-MUSIC 2(2,0)
Music and Students with Special Needs: PR: MUE 2040 or C.I. Consideration of the general education music curriculum in regards to students with disabilities and special needs. Odd Fall.

MUE 4394 CAH-MUSIC 1(1,0)

MUE 4441 CAH-MUSIC 3(3,0)

MUE 4480C CAH-MUSIC 1(1,1)

UCF Courses and Descriptions
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Department</th>
<th>Title</th>
<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>MUE 4481</td>
<td>CAH-MUSIC</td>
<td>Jazz Pedagogy</td>
<td>1(1,0)</td>
<td>PR: Music major, MUT 1112 and C.I. Methods, materials, and resources for teaching jazz ensembles and improvisation at the secondary school level. Occasional.</td>
</tr>
<tr>
<td>MUE 4963</td>
<td>CAH-MUSIC</td>
<td>Music Education Pre-Professional</td>
<td>0(1,0)</td>
<td>PR: Internship I. Demonstration of comprehensive music education skills and knowledge. Graded S/U. May be used in the degree program a maximum of 2 times. Occasional.</td>
</tr>
<tr>
<td>MUE 5348C</td>
<td>ED-TLP</td>
<td>K-12 Music Methods</td>
<td>4(4,0)</td>
<td>PR: Graduate standing in Music Education or C.I. Organization and administration of instruction for comprehensive music education, K-12. Instructional planning, techniques, and materials for general, choral, and instrumental music education. Spring.</td>
</tr>
<tr>
<td>MUG 3104</td>
<td>CAH-MUSIC</td>
<td>Basic Conducting</td>
<td>2(1,1)</td>
<td>PR: Non-music majors only. Fundamental techniques and practice in conducting. Fall.</td>
</tr>
<tr>
<td>MUG 3202</td>
<td>CAH-MUSIC</td>
<td>Choral Conducting and Materials</td>
<td>2(1,1)</td>
<td>PR: C.I. Study of advanced vocal or instrumental conducting techniques. Rehearsal procedures, selection of materials and program-building, interpretation of scores, study and performance of selected works. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>MUG 4103C</td>
<td>CAH-MUSIC</td>
<td>Advanced Conducting</td>
<td>2(1,1)</td>
<td>PR: Graduate standing or C.I. Study of advanced vocal or instrumental conducting techniques. Rehearsal procedures, selection of materials and program-building, interpretation of scores, study and performance of selected works. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>MUH 2017</td>
<td>CAH-MUSIC</td>
<td>Survey of Rock Music</td>
<td>3(3,0)</td>
<td>PR: Junior standing, C.I. Study of rock music to prominence, and its impact on audience reception. No musical background required. Fall. Spring.</td>
</tr>
<tr>
<td>MUH 2019</td>
<td>CAH-MUSIC</td>
<td>American Popular Music</td>
<td>3(3,0)</td>
<td>PR: C.I. History and analysis of popular music of the United States from the 1840s to the present. Fall. Spring.</td>
</tr>
<tr>
<td>MUH 2071C</td>
<td>CAH-MUSIC</td>
<td>World Music Survey and Performance Laboratory</td>
<td>1(0,1)</td>
<td>PR: MUT 1112 or C.I. An introduction to different musical cultures including West African, Caribbean, South American, and Asian. Occasional.</td>
</tr>
<tr>
<td>MUH 3211</td>
<td>CAH-MUSIC</td>
<td>Music History and Literature</td>
<td>3(3,0)</td>
<td>PR: MUT 1112. History of Western European art music from Antiquity to 1750. Fall.</td>
</tr>
<tr>
<td>MUH 3212</td>
<td>CAH-MUSIC</td>
<td>Music History and Literature</td>
<td>3(3,0)</td>
<td>PR: MUT 1112. History of Western European and American art music from 1750 to present day. Spring.</td>
</tr>
<tr>
<td>MUH 3622</td>
<td>CAH-MUSIC</td>
<td>Music and Ritual in East Asian Religions</td>
<td>3(3,0)</td>
<td>PR: ENC 1102 and one of the following: REL 2200, HUM 2210, HUM 2220, MUL 2720, ANT 2000, ANT 2410, WOH 2012, WOH 2022. The aural and kinetic elements of religious ceremony, focusing on the interplay of music and ritual in Buddhism, Daoism, Confucianism, Shintoism. Occasional.</td>
</tr>
<tr>
<td>MUH 4218</td>
<td>CAH-MUSIC</td>
<td>Review of Music History</td>
<td>1(1,0)</td>
<td>PR: C.I. A review of music history from Ancient Greece to the present. Occasional.</td>
</tr>
<tr>
<td>MUL 3381</td>
<td>CAH-MUSIC</td>
<td>Contemporary Popular Music</td>
<td>3(3,0)</td>
<td>PR: MUT 1112 or C.I. Study of contemporary popular music. Music reading not required. Even Fall.</td>
</tr>
<tr>
<td>MUL 3401</td>
<td>CAH-MUSIC</td>
<td>Piano Literature I</td>
<td>2(1,1)</td>
<td>PR: Major in Music or C.I. Study of contemporary popular music. Music reading not required. Odd Fall.</td>
</tr>
<tr>
<td>MUL 3401</td>
<td>CAH-MUSIC</td>
<td>Piano Literature II</td>
<td>2(1,1)</td>
<td>PR: Major in Music or C.I. Study of contemporary popular music. Music reading not required. Odd Fall.</td>
</tr>
<tr>
<td>MUL 3416</td>
<td>CAH-MUSIC</td>
<td>Western Art Music</td>
<td>1(1,0)</td>
<td>PR: Graduate standing or C.I. Study of Western art music from the Middle Ages to the 15th century. Odd Fall.</td>
</tr>
<tr>
<td>MUL 3421</td>
<td>CAH-MUSIC</td>
<td>History of Ornament</td>
<td>1(1,0)</td>
<td>PR: C.I. Study of ornament in music from the 17th century to the present. Odd Fall.</td>
</tr>
<tr>
<td>MUL 3422</td>
<td>CAH-MUSIC</td>
<td>Orchestration</td>
<td>3(3,0)</td>
<td>PR: C.I. Study of orchestration techniques and their application in music from the 18th century to the present. Odd Fall.</td>
</tr>
<tr>
<td>MUL 3423</td>
<td>CAH-MUSIC</td>
<td>Conducting</td>
<td>3(3,0)</td>
<td>PR: Graduate standing or C.I. Study of conducting techniques. Rehearsal procedures, selection of materials and program-building, interpretation of scores, study and performance of selected works. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>MUL 3424</td>
<td>CAH-MUSIC</td>
<td>String Literature and Pedagogy</td>
<td>3(3,0)</td>
<td>PR: C.I. Study of string solos/chamber music literature from the 16th century to the present. Odd Fall.</td>
</tr>
<tr>
<td>MUL 3441</td>
<td>CAH-MUSIC</td>
<td>Woodwind Literature</td>
<td>2(2,0)</td>
<td>PR: C.I. Study of woodwind literature from the 16th century to the present. Even Fall.</td>
</tr>
<tr>
<td>MUL 3442</td>
<td>CAH-MUSIC</td>
<td>Brass Literature</td>
<td>2(2,0)</td>
<td>PR: C.I. Study of brass literature from the 16th century to the present. Even Fall.</td>
</tr>
<tr>
<td>MUL 3463</td>
<td>CAH-MUSIC</td>
<td>Percussion Literature</td>
<td>2(2,0)</td>
<td>PR: C.I. Study of percussion instruments. Odd Fall.</td>
</tr>
<tr>
<td>MUL 3602</td>
<td>CAH-MUSIC</td>
<td>American/English Song Literature</td>
<td>3(3,0)</td>
<td>PR: C.I. Study of American and English songs of the 19th century. Odd Fall.</td>
</tr>
<tr>
<td>MUL 3604</td>
<td>CAH-MUSIC</td>
<td>German Song Literature</td>
<td>1(1,1)</td>
<td>PR: C.I. Study of German song literature. Even Spring.</td>
</tr>
<tr>
<td>MUL 3605</td>
<td>CAH-MUSIC</td>
<td>French Song Literature</td>
<td>1(1,1)</td>
<td>PR: C.I. Study of French song literature. Odd Fall.</td>
</tr>
<tr>
<td>MUL 4437</td>
<td>CAH-MUSIC</td>
<td>String Literature and Pedagogy</td>
<td>3(3,0)</td>
<td>PR: C.I. Study of string literature and techniques. Odd Fall.</td>
</tr>
<tr>
<td>MUL 4443</td>
<td>CAH-MUSIC</td>
<td>Brass Literature and Pedagogy</td>
<td>3(3,0)</td>
<td>PR: C.I. Study of brass literature and techniques. Odd Fall.</td>
</tr>
<tr>
<td>MUL 4444</td>
<td>CAH-MUSIC</td>
<td>Woodwind Literature and Pedagogy</td>
<td>3(3,0)</td>
<td>PR: C.I. Study of woodwind literature and techniques. Odd Fall.</td>
</tr>
<tr>
<td>MUM 5806</td>
<td>CAH-MUSIC</td>
<td>Performing Arts Management</td>
<td>3(3,0)</td>
<td>PR: C.I. Study of performing arts management. Odd Fall.</td>
</tr>
</tbody>
</table>
MUN 2023 CAH-MUSIC 1(0,2)  

MUN 2442 CAH-MUSIC 1(1,0)  
Percussion/Mallet Ensemble: PR: C.I. Preparation and performance of music for percussion with mallets. May be repeated for credit. Fall.

MUN 3113 CAH-MUSIC 2(0,8)  
Marching Band: PR: Admission by audition. Preparation for performance at football games and special occasions. May be repeated for credit. Fall. M&S fee: $30.54

MUN 3123 CAH-MUSIC 1(0,3)  
Concert Band: PR: Open to all students with audition. Study and performance of music for large ensembles. May be repeated for credit. Fall, Spring. M&S fee: $20.00

MUN 3143 CAH-MUSIC 1(0,4)  
Wind Ensemble: PR: Open to all students by audition. Study and performance of music for wind ensemble and band. May be repeated for credit. Fall. Spring. M&S fee: $20.00

MUN 3283 CAH-MUSIC 1(0,5)  
Symphony Orchestra: PR: Audition. Open to all students by audition. Rehearsal and performance of works from the symphonic repertoire. May be repeated for credit. Fall. Spring. M&S fee: $20.00

MUN 3313 CAH-MUSIC 1(3,0)  
University Choir: PR: C.I. Open to all students by audition. Study and performance of large ensemble music. Possible tours. May be repeated for credit. Fall. Spring. M&S fee: $20.00

MUN 3323 CAH-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. Fall. Spring. M&S fee: $20.00

MUN 3343 CAH-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. Fall. Spring. M&S fee: $20.00

MUN 3423 CAH-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. Fall. Spring. M&S fee: $20.00

MUN 3430 CAH-MUSIC 1(1,0)  
Trumpet Ensemble: PR: C.I. Rehearsal and performance of music for trumpet ensembles. May be repeated for credit. Occasional. M&S fee: $5.00

MUN 3433 CAH-MUSIC 1(0,2)  
Brass Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Fall. Spring. M&S fee: $20.00

MUN 3443 CAH-MUSIC 1(0,2)  
Percussion Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Fall. Spring. M&S fee: $35.00

MUN 3444 CAH-MUSIC 1(1,0)  
Mallet Ensemble: PR: C.I. Preparation and performance of music for mallet ensemble. May be repeated for credit. Fall. Odd Spring. M&S fee: $35.00

MUN 3453 CAH-MUSIC 1(0,3)  
Piano Ensemble: PR: Open to Music Majors or C.I. Study and performance of music for small ensembles. May be repeated for credit. Fall. Spring.

MUN 3483 CAH-MUSIC 1(0,2)  
String Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Fall. Spring. M&S fee: $20.00

MUN 3487 CAH-MUSIC 1(0,2)  

MUN 3713 CAH-MUSIC 1(0,4)  
Jazz Lab: PR: C.I. Open to all students by audition. Study and performance of music for small ensembles. May be repeated for credit. Fall. Spring. M&S fee: $20.00

MUN 3714 CAH-MUSIC 1(0,2)  
Jazz Combo: PR: Junior standing and C.I. Rehearsal and performance of music for small jazz combo, emphasizing improvisation. May be repeated for credit. Fall. Spring. M&S fee: $5.00

MUN 3717 CAH-MUSIC 1(0,3)  
Jazz/Pop Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Occasional.

MUN 3723 CAH-MUSIC 1(0,3)  
Vocal-Jazz Ensemble: PR: C.I. Open to all students. Study and performance of music for small ensembles. May be repeated for credit. Occasional.

MUN 3813 CAH-MUSIC 1(1,1)  
Steel Drum Ensemble: PR: C.I. Rehearsal and performance of music arranged for steel drum band. May be repeated for credit. Fall. Spring. M&S fee: $5.00

MUN 4476 CAH-MUSIC 1(0,2)  
Early Music Ensemble: PR: C.I. Study and performance of pre-classical music. May be repeated for credit. Fall. Spring. M&S fee: $5.00

MUN 5125 CAH-MUSIC 1(0,3)  
Concert Band: PR: Open to all graduate students by audition. Study and performance of music for large ensembles. May be used in the degree program a maximum of 4 times. Odd Fall. M&S fee: $20.00

MUN 5145 CAH-MUSIC 1(0,4)  
Wind Ensemble: PR: Open to all graduate students by audition. Study and performance of music for wind ensemble and band. May be used in the degree program a maximum of 4 times. Odd Fall. M&S fee: $20.00

MUN 5215 CAH-MUSIC 1(0,5)  
Symphony Orchestra: PR: Open to all graduate students by audition. Rehearsal and performance of works from the symphonic repertoire. May be used in the degree program a maximum of 4 times. Odd Fall. M&S fee: $20.00

MUN 5325 CAH-MUSIC 1(0,3)  
Women's Chorus: PR: Open to all graduate students by audition. Study and performance of choral music for women's voices. May be used in the degree program a maximum of 4 times. Odd Fall. M&S fee: $20.00

MUN 5368L CAH-MUSIC 1(0,3)  
Graduate Madrigal Singers: PR: Graduate standing in Music Education and C.I. Study of varied literature for small vocal ensembles. May be used in the degree program a maximum of 5 times. Occasional. M&S fee: $5.00

MUN 5385L CAH-MUSIC 1(0,3)  
Graduate University Chorus: PR: Graduate standing in Music Education and C.I. Study and performance of large ensemble music. May be used in the degree program a maximum of 5 times. Occasional. M&S fee: $5.00
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Units</th>
<th>Prerequisites</th>
<th>Description</th>
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<tbody>
<tr>
<td>MUT 1004</td>
<td>Fundamentals of Music I</td>
<td>3</td>
<td>MUT 1004, Theory and sight singing skills</td>
<td>Basic music theory and reading music at the keyboard. Fall.</td>
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<tr>
<td>MUT 1111</td>
<td>CAH-MUSIC</td>
<td>2</td>
<td>CR: MUT 1241, Writing, performance, analysis of</td>
<td>Musical Theory IA:</td>
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<tr>
<td></td>
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<td>and music of various stylistic periods, Fall,</td>
<td>Spring.</td>
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<tr>
<td>MUT 1112</td>
<td>CAH-MUSIC</td>
<td>2</td>
<td>CR: MUT 1111, CR: MUT 1242</td>
<td>Musical Theory IB:</td>
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<td>Continuation of MUT 1111.</td>
<td>Spring.</td>
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<tr>
<td>MUT 1121</td>
<td>CAH-MUSIC</td>
<td>4</td>
<td>PR: MUT 1104 or C.I.</td>
<td>Music Theory and Musicianship I:</td>
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<tr>
<td></td>
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<td></td>
<td>Studies in music theory, both written and aural</td>
<td>Continuation of MUT 1121, Studies in music theory, both written and aural</td>
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<td>skills, including musical analysis, model</td>
<td>skills, including musical analysis, model</td>
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<td>composition, sight singing, ear training,</td>
<td>composition, sight singing, ear training, and improvisation.</td>
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<td>and improvisation.</td>
<td>Odd Spring.</td>
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<td>MUT 1221</td>
<td>CAH-MUSIC</td>
<td>4</td>
<td>PR: MUT 1121 or C.I.</td>
<td>Music Theory and Musicianship II:</td>
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<td>Continuation of MUT 1121, Studies in music</td>
<td>Continuation of MUT 1121, Studies in music theory, both written and aural</td>
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<td>theory, both written and aural skills,</td>
<td>skills, including musical analysis, model composition, sight singing,</td>
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<td>including musical analysis, model composition,</td>
<td>ear training, and improvisation.</td>
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<td>sight singing, ear training, and improvisation.</td>
<td>Odd Spring.</td>
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<tr>
<td>MUT 1241</td>
<td>CAH-MUSIC</td>
<td>1</td>
<td>PR: MUT 1112, CR: MUT 2246</td>
<td>Ear Training and Sight Singing IA:</td>
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<td>Continuation of MUT 1241, Intended to be taken</td>
<td>Aural and visual/oral comprehension of elements of music - rhythm, melody,</td>
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<td>with MUT 1112, Fall, Spring.</td>
<td>harmony, form. Intended to be taken with MUT 1111, Fall, Spring.</td>
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<tr>
<td>MUT 1242</td>
<td>CAH-MUSIC</td>
<td>1</td>
<td>PR: MUT 1241</td>
<td>Ear Training and Sight Singing IB:</td>
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<td>Continuation of MUT 1241, Intended to be taken</td>
<td>Ear Training and Sight Singing IB:</td>
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<td>with MUT 1112, Spring.</td>
<td>Intended to be taken with MUT 1112, Spring.</td>
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<tr>
<td>MUT 2116</td>
<td>CAH-MUSIC</td>
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<td>PR: MUT 1112, CR: MUT 2246</td>
<td>Music Theory IIA:</td>
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<td>Continuation of MUT 1112, writing, performance,</td>
<td>Studying in music theory, both written and aural skills, including musical</td>
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<td>and analysis of music of various stylistic</td>
<td>analysis, model composition, sight singing, ear training, and improvisation.</td>
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<td>periods.</td>
<td>Odd Spring.</td>
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<tr>
<td>MUT 2117</td>
<td>CAH-MUSIC</td>
<td>2</td>
<td>PR: MUT 2116, CR: 2247</td>
<td>Music Theory IIB:</td>
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<td>Continuation of MUT 2116.</td>
<td>Mut 2116, Spring.</td>
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<tr>
<td>MUT 2126</td>
<td>CAH-MUSIC</td>
<td>4</td>
<td>PR: MUT 1122 or C.I.</td>
<td>Music Theory and Musicianship III:</td>
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<td>Continuation of MUT 1122, Studies in music</td>
<td>Mut 1122, Studies in music theory, both written and aural skills,</td>
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<td>theory, both written and aural skills,</td>
<td>including musical analysis, model composition, sight singing, ear</td>
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<td>including musical analysis, model composition,</td>
<td>training, and improvisation.</td>
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<td>sight singing, ear training, and improvisation.</td>
<td>Odd Spring.</td>
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<tr>
<td>MUT 2127</td>
<td>CAH-MUSIC</td>
<td>4</td>
<td>PR: MUT 2126 or C.I.</td>
<td>Music Theory and Musicianship IV:</td>
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<td>Continuation of MUT 2126, Studies in music</td>
<td>Mut 2126, Studies in music theory, both written and aural skills,</td>
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<td>theory, both written and aural skills,</td>
<td>including musical analysis, model composition, sight singing, ear</td>
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<td>including musical analysis, model composition,</td>
<td>training, and improvisation.</td>
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<td>sight singing, ear training, and improvisation.</td>
<td>Odd Spring.</td>
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<tr>
<td>MUT 2246</td>
<td>CAH-MUSIC</td>
<td>1</td>
<td>PR: MUT 1242</td>
<td>Ear Training and Sight Singing IIA:</td>
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<td>Ear Training and Sight Singing IIA:</td>
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<td>with MUT 2116, Fall.</td>
<td>Intended to be taken with MUT 2116, Fall.</td>
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<td>MUT 2247</td>
<td>CAH-MUSIC</td>
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<td>PR: MUT 2246</td>
<td>Ear Training and Sight Singing IB:</td>
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<td>Continuation of MUT 2246, Intended to be taken</td>
<td>Ear Training and Sight Singing IB:</td>
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<td>with MUT 2117, Spring.</td>
<td>Intended to be taken with MUT 2117, Spring.</td>
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<td>MUT 2961</td>
<td>CAH-MUSIC</td>
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<td>PR: MUT 2247</td>
<td>Sight-Singing Proficiency Exam:</td>
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<td>Demonstration of basic skills in ear-training.</td>
<td>Required of Music majors.</td>
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<td>Graded S/U. May be used in the degree program</td>
<td>Graded S/U. May be used in the degree program a maximum of 2 times.</td>
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<td>a maximum of 2 times.</td>
<td>Occasional.</td>
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<td>MUT 3401</td>
<td>CAH-MUSIC</td>
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<td>PR: MUT 2117, Discuss, analyze, and write</td>
<td>Music Theory Proficiency Exam:</td>
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<td>counterpoint exercises. 18th, 19th, and 20th</td>
<td>Demonstration of basic skills in part-writing, visual analysis,</td>
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<td>scores will be examined.</td>
<td>counterpoint exercises. 18th, 19th, and 20th scores will be examined.</td>
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<tr>
<td>MUT 3571</td>
<td>CAH-MUSIC</td>
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<td>PR: MUT 2115 and MUT 2117, Overview of 20th</td>
<td>Jazz Theory I:</td>
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<td>Century music including musical compositions,</td>
<td>PR: MUT 2115 and MUT 2117, Overview of 20th century music, including</td>
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<td>techniques of musical analysis, and styles.</td>
<td>musical compositions, techniques of musical analysis, and styles. Fall.</td>
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<tr>
<td>MUT 3622</td>
<td>CAH-MUSIC</td>
<td>3</td>
<td>PR: MUT 2115 and MUT 2117, Overview of 20th</td>
<td>Analytical Approaches to Musical Rhythm:</td>
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<td>Century music including musical compositions,</td>
<td>PR: MUT 2115 and MUT 2117, Overview of 20th century music, including</td>
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<td>techniques of musical analysis, and styles.</td>
<td>musical compositions, techniques of musical analysis, and styles. Fall.</td>
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<td>MUT 3642</td>
<td>CAH-MUSIC</td>
<td>2</td>
<td>PR: MUT 2115 and MUT 2117, Overview of 20th</td>
<td>Jazz Improvisation II:</td>
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<td>Century music including musical compositions,</td>
<td>PR: MUT 3641 Junior standing or C.I. A continuation of Jazz Improvisation I.</td>
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<td>techniques of musical analysis, and styles.</td>
<td>Even Spring.</td>
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<tr>
<td>MUT 3923</td>
<td>CAH-MUSIC</td>
<td>2</td>
<td>PR: MUT 2115 and MUT 2117, Overview of 20th</td>
<td>Jazz Workshop:</td>
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<td>Century music including musical compositions,</td>
<td>PR: MUT 3923 Junior standing or C.I. A continuation of Jazz Improvisation I.</td>
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<td>techniques of musical analysis, and styles.</td>
<td>Even Spring.</td>
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<td>MUT 4031</td>
<td>CAH-MUSIC</td>
<td>1</td>
<td>PR: C.I. A comprehensive review of harmonic</td>
<td>Review of Music Theory:</td>
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<td>and analytic skills. May be repeated for</td>
<td>PR: C.I. A comprehensive review of harmonic and analytic skills. May be</td>
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<td></td>
<td>credit.</td>
<td>repeated for credit.</td>
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<td>MUT 4311</td>
<td>CAH-MUSIC</td>
<td>3</td>
<td>PR: MUT 2300C and MUT 2127, Technical and</td>
<td>Orchestration:</td>
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<td>aesthetic principles of writing for instruments</td>
<td>PR: MUT 4311, Junior standing or C.I. A continuation of Jazz Improvisation I.</td>
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<td>of the concert orchestra.</td>
<td>Even Spring.</td>
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<td>MUT 4344</td>
<td>CAH-MUSIC</td>
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<td>PR: MUT 2300C and MUT 2127, Technical and</td>
<td>Seminar in Music Arranging:</td>
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<td>aesthetic principles of writing for instruments</td>
<td>Scoring for choral and instrumental ensembles.</td>
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<td>of the concert orchestra.</td>
<td>Scoring for choral and instrumental ensembles.</td>
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<td>MUT 5381</td>
<td>CAH-MUSIC</td>
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<td>Arranging and Composing Music:</td>
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<td>aesthetic principles of writing for instruments</td>
<td>PR: Satisfactory placement tests in theory, sight-singing, and ear training,</td>
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<td>of the concert orchestra.</td>
<td>and graduate status or senior standing or C.I. Arranging and</td>
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<td>May be repeated for credit.</td>
<td>and composing music for instrumental and vocal ensembles. Some emphasis</td>
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<td>May be repeated for credit.</td>
<td>on compositional techniques of the 20th century. Even Fall.</td>
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MUT 5936 CAH-MUSIC 3(3,0)  
Music Theory Seminar: PR: Graduate standing in music education or C.I. One or more issues of importance in music theory with emphasis on recent scholarly literature and debates. May be used in the degree program a maximum of 4 times. Occasional.

MVB 1211 CAH-MUSIC 1(0,1)  Secondary Trumpet: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trumpet. Intended for non-music majors. May be repeated for credit. Fall, Spring.

MVB 1212 CAH-MUSIC 1(0,1)  Secondary French Horn: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in French Horn. Intended for non-music majors. May be repeated for credit. Fall, Spring.

MVB 1213 CAH-MUSIC 1(0,1)  Secondary Trombone: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in trombone. Intended for non-music majors. May be repeated for credit. Fall, Spring.

MVB 1214 CAH-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. Fall, Spring.

MVB 1215 CAH-MUSIC 1(0,1)  Secondary Tuba: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in tuba. Intended for non-music majors. May be repeated for credit. Fall, Spring.

MVB 1411 CAH-MUSIC 2(1,1)  Trumpet I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVB 1412 CAH-MUSIC 2(1,1)  French Horn I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVB 1413 CAH-MUSIC 2(1,1)  Trombone I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVB 1414 CAH-MUSIC 2(1,1)  Baritone I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVB 1415 CAH-MUSIC 2(1,1)  Tuba I: PR: Major in music or consent of chair; audition. May be repeated for credit. Even Fall, Spring.

MVB 2421 CAH-MUSIC 2(1,1)  Trumpet II: PR: MVB 1411 and competence determined by faculty jury. Continuation of MVB 1411. May be repeated for credit. Fall, Spring.

MVB 2422 CAH-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. Fall, Spring.

MVB 2423 CAH-MUSIC 2(1,1)  Trombone II: PR: MVB 1413 and competence determined by faculty jury. Continuation of MVB 1413. May be repeated for credit. Fall, Spring.

MVB 2424 CAH-MUSIC 2(1,1)  Baritone II: PR: MVB 1414 and competence determined by faculty jury. Continuation of MVB 1414. May be repeated for credit. Fall, Spring.

MVB 2425 CAH-MUSIC 2(1,1)  Tuba II: PR: MVB 1415 and competence determined by faculty jury. Continuation of MVB 1415. May be repeated for credit. Fall, Spring.

MVB 3431 CAH-MUSIC 2-3(1,1)  Trumpet III: PR: MVB 2421. Continued study of performance skills of the trumpet, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVB 3432 CAH-MUSIC 2-3(1,1)  French Horn III: PR: MVB 2422 and competence determined by faculty jury. Continued study of performance skills of the French horn, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVB 3433 CAH-MUSIC 2-3(1,1)  Trombone III: PR: MVB 2423 and competence determined by faculty jury. Continued study of performance skills of the trombone, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVB 3434 CAH-MUSIC 2-3(1,1)  Euphonium III: PR: MVB 2424 and competence determined by faculty jury. Continued study of performance skills of the euphonium, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVB 3435 CAH-MUSIC 2-3(1,1)  Tuba III: PR: MVB 2425 and competence determined by faculty jury. Continued study of performance skills of the tuba, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVB 4441 CAH-MUSIC 4(1,1)  Trumpet IV: PR: MVB 3431. Intensive advanced performance study of the trumpet, for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVB 4442 CAH-MUSIC 4(1,1)  French Horn IV: PR: MVB 3432 and competence determined by faculty jury. Intensive advanced performance study of the French horn, for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVB 4443 CAH-MUSIC 4(1,1)  Trombone IV: PR: MVB 3433 and competence determined by faculty jury. Intensive advanced performance study of the trombone, for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVB 4444 CAH-MUSIC 4(1,1)  Euphonium IV: PR: MVB 3434 and competence determined by faculty jury. Intensive advanced performance study of the euphonium, for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVB 5451 CAH-MUSIC 2(1,0)  Trumpet V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVB 5452 CAH-MUSIC 2(1,0)  French Horn V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVB 5453 CAH-MUSIC 2(1,0)  Trombone V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVB 5454 CAH-MUSIC 2(1,0)  Baritone V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVB 5455 CAH-MUSIC 2(1,0)  Tuba V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVJ 1010 CAH-MUSIC 2(1,1)  Jazz Piano I: PR: Music major or C.I. Scale studies, arpeggios, chord voicings, and other techniques included in fundamentals of jazz piano skills. May be used in the degree program a maximum of 3 times. Odd Spring.

MVJ 1213 CAH-MUSIC 2(1,1)  Jazz Guitar I: PR: Music major or C.I. Scales, arpeggios, chord voicings, and other techniques included in fundamentals of jazz guitar skills. May be used in the degree program a maximum of 3 times. Odd Spring.

MVJ 1214 CAH-MUSIC 2(1,1)  Jazz Bass I: PR: Music major or C.I. Basic Jazz Bass skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. Odd Spring.

MVJ 1219 CAH-MUSIC 2(1,1)  Jazz Drum Set I: PR: Music major or C.I. Basic Jazz Drum Set skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. Odd Spring.

MVJ 2220 CAH-MUSIC 2(1,1)  Jazz Piano II: PR: MVJ 1010. Continuation of MVJ 1010. Scale Studies, arpeggios, chord voicings, and other techniques included in progressive jazz piano skills. May be used in the degree program a maximum of 3 times. Odd Spring.

MVJ 2223 CAH-MUSIC 2(1,1)  Jazz Guitar II: PR: MVJ 1213. Continuation of MVJ 1213. Scales, arpeggios, chord voicings and other techniques included in progressive jazz guitar skills. May be used in the degree program a maximum of 3 times. Odd Spring.

MVJ 2224 CAH-MUSIC 2(1,1)  Jazz Bass II: PR: MVJ 1214. Continuation of MVJ 1214. Progressive Jazz Bass skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. Odd Spring.

MVJ 2229 CAH-MUSIC 2(1,1)  Jazz Drum Set II: PR: MVJ 1219. Continuation of MVJ 1219. Progressive Jazz Drum Set skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. Odd Spring.

MVJ 3230 CAH-MUSIC 3(1,1)  Jazz Piano III: PR: MVJ 2220. Continuation of MVJ 2220. Scale studies, arpeggios, chord voicings, and other techniques included in progressive jazz piano skills. May be used in the degree program a maximum of 3 times. Odd Spring.

MVJ 3233 CAH-MUSIC 3(1,1)  Jazz Guitar III: PR: MVJ 2223. Continuation of MVJ 2223. Scales, arpeggios, chord voicings and other techniques included in progressive jazz guitar skills. May be used in the degree program a maximum of 3 times. Odd Spring.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MVJ 3234</td>
<td>CAH-MUSIC 3(1,1)</td>
<td></td>
<td>Jazz Bass III: PR: MVJ 2224. Continuation of MVJ 2224. Progressive Jazz Bass skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. Odd Spring.</td>
</tr>
<tr>
<td>MVJ 3339</td>
<td>CAH-MUSIC 3(1,1)</td>
<td></td>
<td>Jazz Drum Set III: PR: MVJ 2229. Continuation of MVJ 2229. Progressive Jazz Drum Set skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. Odd Spring.</td>
</tr>
<tr>
<td>MVJ 4240</td>
<td>CAH-MUSIC 4(1,1)</td>
<td></td>
<td>Piano IV: PR: MVJ 3230. Continuation of MVJ 3230. Scales, arpeggios, chord voicings, and other techniques included in advanced jazz piano skills. May be used in the degree program a maximum of 3 times. Odd Spring.</td>
</tr>
<tr>
<td>MVJ 4244</td>
<td>CAH-MUSIC 4(1,1)</td>
<td></td>
<td>Jazz Bass IV: PR: MVJ 3234. Continuation of MVJ 3234. Advanced Jazz Bass skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. Odd Spring.</td>
</tr>
<tr>
<td>MVJ 4349</td>
<td>CAH-MUSIC 4(1,1)</td>
<td></td>
<td>Jazz Drum Set IV: PR: MVJ 3339. Continuation of MVJ 3339. Progressive Jazz Drum Set skills, including sound concept, technique, literature, style, history, and heritage. May be used in the degree program a maximum of 3 times. Odd Spring.</td>
</tr>
<tr>
<td>MVK 1111</td>
<td>CAH-MUSIC 1(0,2)</td>
<td></td>
<td>Class Piano I: Class instruction for beginning piano students. Not open to music majors whose major performing medium is piano. Fall, Spring.</td>
</tr>
<tr>
<td>MVK 1112</td>
<td>CAH-MUSIC 1(0,2)</td>
<td></td>
<td>Class Piano II: PR: MVK 1111. Music major, or C.I. Continuation of MVK 1111. Music majors only, not open to music majors whose major performing medium is piano. Fall, Spring.</td>
</tr>
<tr>
<td>MVK 1211</td>
<td>CAH-MUSIC 1(0,1)</td>
<td></td>
<td>Secondary Piano: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in piano. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVK 1411</td>
<td>CAH-MUSIC 2(1,1)</td>
<td></td>
<td>Piano I: PR: Major in music or consent of chairperson; audition. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVK 1413</td>
<td>CAH-MUSIC 2(1,1)</td>
<td></td>
<td>Organ I: PR: Major in music or consent of chairperson; audition. May be repeated for credit. Occasional.</td>
</tr>
<tr>
<td>MVK 1800</td>
<td>CAH-MUSIC 2(2,0)</td>
<td></td>
<td>Keyboard Class I: Keyboard training for non-Music students with no prior keyboard training. Fall, Spring.</td>
</tr>
<tr>
<td>MVK 1801</td>
<td>CAH-MUSIC 2(2,0)</td>
<td></td>
<td>Keyboard Class II: PR: MVK 1800. Continuation of Keyboard class I. Occasional.</td>
</tr>
<tr>
<td>MVP 1211</td>
<td>CAH-MUSIC 1(0,1)</td>
<td></td>
<td>Secondary Percussion: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in percussion. Intended for non-music majors. May be repeated for credit. Occasional. M&amp;S fee: $35.00</td>
</tr>
<tr>
<td>MVP 1411</td>
<td>CAH-MUSIC 2(1,1)</td>
<td></td>
<td>Percussion I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring. M&amp;S fee: $35.00</td>
</tr>
<tr>
<td>MVP 2421</td>
<td>CAH-MUSIC 2(1,1)</td>
<td></td>
<td>Percussion II: PR: MVP 1411 and competence determined by faculty jury. Continued study of percussion skills of, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring. M&amp;S fee: $35.00</td>
</tr>
<tr>
<td>MVP 3431</td>
<td>CAH-MUSIC 2-3(1,1)</td>
<td></td>
<td>Percussion III: PR: MVP 2421 and competence determined by faculty jury. Continued study of percussion skills of the piano, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring. M&amp;S fee: $35.00</td>
</tr>
<tr>
<td>MVP 3630</td>
<td>CAH-MUSIC 2(2,0)</td>
<td></td>
<td>Percussion Pedagogy: PR: Major in music, C.I. Teaching methods and materials for percussion students and groups. Fall, Spring.</td>
</tr>
<tr>
<td>MVP 4441</td>
<td>CAH-MUSIC 4(1,1)</td>
<td></td>
<td>Percussion IV: PR: MVP 3431 and competence determined by faculty jury. Intensive advanced performance study of percussion for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring. M&amp;S fee: $35.00</td>
</tr>
<tr>
<td>MVP 5451</td>
<td>CAH-MUSIC 2(1,0)</td>
<td></td>
<td>Percussion V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring. M&amp;S fee: $35.00</td>
</tr>
<tr>
<td>MVS 1211</td>
<td>CAH-MUSIC 1(0,1)</td>
<td></td>
<td>Secondary Violin: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in violin. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 1212</td>
<td>CAH-MUSIC 1(0,1)</td>
<td></td>
<td>Secondary Viola: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in viola. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 1213</td>
<td>CAH-MUSIC 1(0,1)</td>
<td></td>
<td>Secondary Cello: PR: Consent of Music Chair: CR: Performing ensemble. Advanced instruction in cello. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 1214</td>
<td>CAH-MUSIC 1(0,1)</td>
<td></td>
<td>Secondary Bass: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in bass. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 1216</td>
<td>CAH-MUSIC 1(0,1)</td>
<td></td>
<td>Secondary Guitar: PR: Consent of Music Chair. CR: Performing ensemble. Advanced instruction in guitar. Intended for non-music majors. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 1411</td>
<td>CAH-MUSIC 2(1,1)</td>
<td></td>
<td>Violin I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.</td>
</tr>
<tr>
<td>MVS 1412</td>
<td>CAH-MUSIC 2(1,1)</td>
<td></td>
<td>Viola I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.</td>
</tr>
</tbody>
</table>
MVS 1413 CAH-MUSIC 2(1,1)
Cello I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1414 CAH-MUSIC 2(1,1)
Bass I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1415 CAH-MUSIC 2(1,1)
Harp I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 1416 CAH-MUSIC 2(1,1)
Guitar I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVS 2421 CAH-MUSIC 2(1,1)
Violin I: PR: MVS 1411 and competence determined by faculty jury. Continuation of MVS 1411. May be repeated for credit. Fall, Spring.

MVS 2422 CAH-MUSIC 2(1,1)
Viola I: PR: MVS 1412 and competence determined by faculty jury. Continuation of MVS 1412. May be repeated for credit. Fall, Spring.

MVS 2423 CAH-MUSIC 2(1,1)
Cello II: PR: MVS 1413 and competence determined by faculty jury. Continuation of MVS 1413. May be repeated for credit. Fall, Spring.

MVS 2424 CAH-MUSIC 2(1,1)
Bass II: PR: MVS 1414 and competence determined by faculty jury. Continuation of MVS 1414. May be repeated for credit. Fall, Spring.

MVS 2425 CAH-MUSIC 2(1,1)
Harp II: PR: MVS 1415 and competence determined by faculty jury. Continuation of MVS 1415. May be repeated for credit. Fall, Spring.

MVS 2426 CAH-MUSIC 2(1,1)
Guitar II: PR: MVS 1416 and competence determined by faculty jury. Continuation of MVS 1416. May be repeated for credit. Fall, Spring.

MVS 3431 CAH-MUSIC 2-3(1,1)
Violin II: PR: MVS 2421 and competence determined by faculty jury. Continued study of performance skills of the violin, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVS 3432 CAH-MUSIC 2-3(1,1)
Viola II: PR: MVS 2422 and competence determined by faculty jury. Continued study of performance skills of the viola, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVS 3433 CAH-MUSIC 2-3(1,1)
Cello II: PR: MVS 2423 and competence determined by faculty jury. Continued study of performance skills of the cello, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVS 3434 CAH-MUSIC 2-3(1,1)
Bass II: PR: MVS 2424 and competence determined by faculty jury. Continued study of performance skills of the string bass, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVS 3435 CAH-MUSIC 2-3(1,1)
Harp II: PR: MVS 2425 and competence determined by faculty jury. Continued study of performance skills of the harp, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVS 3436 CAH-MUSIC 2-3(1,1)
Guitar III: PR: MVS 2426 and competence determined by faculty jury. Continued study of performance skills of the guitar, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVS 4346 CAH-MUSIC 4(1,1)
Guitar IV: PR: MVS 3436 and competence determined by faculty jury. Intensive advanced performance study of the guitar for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVS 4441 CAH-MUSIC 4(1,1)
Violin IV: PR: MVS 3431 and competence determined by faculty jury. Intensive advanced performance study of the violin for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVS 4442 CAH-MUSIC 4(1,1)
Viola IV: PR: MVS 3432 and competence determined by faculty jury. Intensive advanced performance study of the viola, for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVS 4443 CAH-MUSIC 4(1,1)
Cello IV: PR: MVS 3433 and competence determined by faculty jury. Intensive advanced performance study of the cello, for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVS 4444 CAH-MUSIC 4(1,1)
Bass IV: PR: MVS 3434 and competence determined by faculty jury. Intensive advanced performance study of the string bass, for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVS 4445 CAH-MUSIC 4(1,1)
Harp IV: PR: MVS 3435 and competence determined by faculty jury. Intensive advanced performance study of the harp, for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVS 4640 CAH-MUSIC 2(2,0)
String Pedagogy: PR: Music major and C.I. Methods and materials for teaching string instruments in a small group or studio setting. Even Spring.

MVS 5451 CAH-MUSIC 2(1,0)
Voice V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVS 5452 CAH-MUSIC 2(1,0)
Violin V: PR: Major in music or consent of chair. Junior voice and performer. May be repeated for credit. Odd Spring.

MVS 5453 CAH-MUSIC 2(1,0)
Cello V: PR: Major in music or consent of chair. Teaching voice, for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVS 5454 CAH-MUSIC 2(1,0)
Bass V: PR: Major in music or consent of chair. May be repeated for credit. Fall, Spring.

MVS 5455 CAH-MUSIC 2(1,0)
Harp V: PR: Major in music or consent of chair. Major in music or consent of chair. May be repeated for credit. Fall, Spring.

MVS 5456 CAH-MUSIC 2(1,0)
Guitar V: PR: Major in music or consent of chair. May be repeated for credit. Fall, Spring.

MVS 5457 CAH-MUSIC 1(0,1)
Class Voice: Class instruction in beginning voice. May be repeated for credit. Fall, Spring.
UCF Courses and Descriptions

MVW 1412 CAH-MUSIC 2(1,1)
Oboe I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVW 1413 CAH-MUSIC 2(1,1)
Clarinet I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVW 1414 CAH-MUSIC 2(1,1)
Bassoon I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring. M&S fee: $20.00

MVW 1415 CAH-MUSIC 2(1,1)
Saxophone I: PR: Major in music or consent of chair; audition. May be repeated for credit. Fall, Spring.

MVW 2421 CAH-MUSIC 2(1,1)
Flute II: PR: MVW 1411 and competence determined by faculty jury. Continuation of MVW 1411. May be repeated for credit. Fall, Spring.

MVW 2422 CAH-MUSIC 2(1,1)
Oboe II: PR: MVW 1412 and competence determined by faculty jury. Continuation of MVW 1412. May be repeated for credit. Fall, Spring.

MVW 2423 CAH-MUSIC 2(1,1)
Clarinet II: PR: MVW 1413 and competence determined by faculty jury. Continuation of MVW 1413. May be repeated for credit. Fall, Spring.

MVW 2424 CAH-MUSIC 2(1,1)
Bassoon II: PR: MVW 1414 and competence determined by faculty jury. Continuation of MVW 1414. May be repeated for credit. Fall, Spring.

MVW 2425 CAH-MUSIC 2(1,1)
Saxophone II: PR: MVW 1415 and competence determined by faculty jury. Continuation of MVW 1415. May be repeated for credit. Fall, Spring.

MVW 3431 CAH-MUSIC 2-3(1,1)
Flute III: PR: MVW 2421 and competence determined by faculty jury. Continued study of performance skills of the flute, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVW 3432 CAH-MUSIC 2-3(1,1)
Oboe III: PR: MVW 2422 and competence determined by faculty jury. Continued study of performance skills of the oboe, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVW 3433 CAH-MUSIC 2-3(1,1)
Clarinet III: PR: MVW 2423 and competence determined by faculty jury. Continued study of performance skills of the clarinet, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVW 3434 CAH-MUSIC 2-3(1,1)
Bassoon III: PR: MVW 2424 and competence determined by faculty jury. Continued study of performance skills of the bassoon, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVW 3435 CAH-MUSIC 2-3(1,1)
Saxophone III: PR: MVW 2425 and competence determined by faculty jury. Continued study of performance skills of the saxophone, with additional intensive work expected for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVW 3630 CAH-MUSIC 2(2,0)
Woodwind Pedagogy: PR: C.I. Methods, materials for teaching individuals and woodwind ensembles. Even Fall.

MVW 4441 CAH-MUSIC 4(1,1)
Flute IV: PR: MVW 3431 and competence determined by faculty jury. Intensive advanced performance study of the flute, for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVW 4442 CAH-MUSIC 4(1,1)
Oboe IV: PR: MVW 3432 and competence determined by faculty jury. Intensive advanced performance study of the oboe, for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVW 4443 CAH-MUSIC 4(1,1)
Clarinet IV: PR: MVW 3433 and competence determined by faculty jury. Intensive performance study of the clarinet, for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVW 4444 CAH-MUSIC 4(1,1)
Bassoon IV: PR: MVW 3434 and competence determined by faculty jury. Intensive advanced performance study of the bassoon, for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVW 4445 CAH-MUSIC 4(1,1)
Saxophone IV: PR: MVW 3435 and competence determined by faculty jury. Intensive advanced performance study of the saxophone, for performance majors. May be used in the degree program a maximum of 3 times. Fall, Spring.

MVW 5451 CAH-MUSIC 2(1,0)
Flute V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVW 5452 CAH-MUSIC 2(1,0)
Obre V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVW 5453 CAH-MUSIC 2(1,0)
Clarinet V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVW 5454 CAH-MUSIC 2(1,0)
Bassoon V: PR: Graduate status or senior standing and C.I. May be repeated for credit. Fall, Spring.

MVW 5455 CAH-MUSIC 2(1,0)
Saxophone V: PR: Graduate status or senior standing and C.I. May be repeated for credit.

NGR 5003 CON-NURS 2(2,0)
Advanced Health Assessment and Diagnostic Reasoning: PR: or CR: NGR 5141; CR: NGR 5000L. Application of concepts and skills for advanced health assessment and diagnostic reasoning over the lifespan. Application of the diagnostic reasoning process through differential diagnoses. Fall, Spring.

NGR 5004L CON-NURS 1(0,1)
Advanced Health Assessment and Diagnostic Reasoning (Lab): PR: or CR: NGR 5141; CR: NGR 5000L. Application of concepts and skills for advanced health assessment and diagnostic reasoning over the lifespan. Graded S/U. Fall, Spring. M&S fee: $45.00

NGR 5090 CON-NURS 3(3,0)
Urgent Care for the Advanced Practice Nurse: PR: NGR 6240 or C.I. Advanced practice evaluation and management of clients in urgent care settings. Occasional.

NGR 5141 CON-NURS 3(3,0)
Pathophysiological Bases for Advanced Nursing Practice: PR: Baccalaureate Degree in Nursing. Critical examination of the physiological and pathophysiological mechanisms affecting individuals. Fall, Spring.

NGR 5195C CON-NURS 3(2,1)
International Perspectives of Global Health: PR: Graduate standing or C.I. An analysis of global health in comparison with that of USA and other nation’s health care systems. Occasional.

NGR 5252 CON-NURS 3(3,0)
Psycho-Social Factors and Health Care Outcomes in the Elderly: PR: Post-baccalaureate or graduate status or C.I. Interdisciplinary perspective to examine the relationship between client characteristics, client health care provider interactions and health care outcomes in the elderly. Occasional.

NGR 5635 CON-NURS 3(3,0)
Transdisciplinary and Community-Based Strategies of Health Professionals: PR: Graduate standing or C.I. A study of healthcare issues and strategies encountered by speech-language pathologists and nurse practitioners when promoting transcultural and collaborative interactions. Occasional.

NGR 5637 CON-NURS 3(3,0)
Advanced Practice Nursing in Rural Settings: PR: Graduate student in COHPA. Focus is on advance practice nursing in rural environments and delivery services within constraints of sparse resources and geographical remoteness. Occasional.

NGR 5638 CON-NURS 3(3,0)
Health Promotion: PR: Admission to MSN or Nursing Certificate program or C.I. Exploration and analysis of concepts, theories, research evidence, clinical assessment and interventions for health promotion and wellness. Fall, Spring.

NGR 5660 CON-NURS 3(3,0)
Health Disparities: Issues and Strategies: PR: Graduate standing. Explores disparities in access, utilization, services, outcomes, and status for different US populations; data, research, programmatic issues; and strategies to close the gaps. Occasional.

NGR 5715 CON-NURS 3(3,0)
Instructional Technology Resources for Health Professional Education: PR: EDU 6256, Teaching Strategies for Health Professionals, or C.I. Analysis of effective teaching learning strategies with emphasis on developing techniques for teaching through technology resources. Spring.

NGR 5720 CON-NURS 3(3,0)
Organizational Dynamics: PR: Baccalaureate Degree in Nursing or C.I. Analysis of organizational theories related to health care organizations and the use of leadership, communication and power to influence health care delivery and policy. Fall.

NGR 5744 CON-NURS 1(1,0)
Health Care Systems, Policy and Health Professionals: PR: Admission to the MSN program or C.I. Examine social responses to health and illness, health care systems and policies and the role of advanced practice nurses. Fall, Spring.

NGR 5745 CON-NURS 1(1,0)
Professional Obligations and Activities of Advanced Practice Nursing: PR: NGR 5746 and NGR 5744. Admission to MSN program or C.I. Examine professional obligations of advanced practice nursing. Opportunity to develop skills for taking certification exam. Fall, Spring.

NGR 5746 CON-NURS 1(1,0)
Cultural, legal, ethical, and political issues of Advanced Practice Nursing: PR: Admission to MSN program or C.I. Examine legal, ethical and political issues related to advanced practice nursing. Fall, Spring.
NGR 5791 CON-NURS 3(3.0) 
Teaching Strategies for Health Professionals: PR: Bachelors in nursing or consent of instructor. Analysis of internal and external controls on curriculum development for health professionals; application of selected teaching learning theories to classroom and clinical practice. Fall.

NGR 5800 CON-NURS 3(3.0) 
Theory for Advanced Practice Nursing: PR: Baccalaureate degree in Nursing or C.I. Conceptual and theoretical bases of nursing practice and research with emphasis on scholarly writing and critique. Fall, Spring.

NGR 5801 CON-NURS 3(3.0) 
Research Methodology for Advanced Practice Nursing: PR: Undergraduate Research Methods and Statistics or C.I.; NGR 5801. Measurement strategies in nursing research, data planning and collection techniques, statistical data analysis and interpretation of results, research proposal development, outcomes research and statistical software. Fall, Spring.

NGR 5871 CON-NURS 3(3.0) 
Health Care Informatics: PR: Baccalaureate in health related field or C.I. Use of information systems, clinical data management, communication strategies, and decision-making models. Fall.

NGR 5880 CON-NURS 3(3.0) 
Professional Ethics: PR: C.I. Clinical cases and other professional ethical issues related to codes of conduct and research; application of ethical principles. May be repeated for credit. Occasional.

NGR 5930 CON-NURS 3(3.0) 
Issues in Health Care for the Homeless: PR: Pre-senior level baccalaureate status or admission to the graduate program; C.I. Emphasis on socioeconomic, political, nursing, medical, health practice and research related to care of the homeless. Occasional.

NGR 5931 CON-NURS 3(3.0) 
Interdisciplinary Care at End-of-Life: PR: Graduate Status or C.I. Examination of interdisciplinary roles and strategies for enabling patients, families, and caregivers to approach end-of-life from avoidable distress and suffering. Fall.

NUR 1015 CON-NURS 3(3.0) 
Nursing as a Profession: PR: C.I. Concepts and nuclear care applications of the pathophysiological basis of illness. Fall.

NUR 3028 CON-NURS 2(2.0) 
Essentials of Nursing Practice: PR: Admission to BSN program. CR: NUR 3028L and NUR 3005L; NUR 3025; NUR 3024 and NUR 3634L. Apply nursing process and core scientific principles to technical psychological models of nursing practice for individuals and families experiencing health risks, short-term illness or chronic health problems. Graded S/U. Fall. M&S fee: $45.00

NUR 3028L CON-NURS 1(0,2) 
Essentials of Nursing Practice Lab: PR: Admission to BSN program. CR: NUR 3028 and NUR 3028L, NUR 3065 and NUR 3065L; NUR 3025; NUR 3024 and NUR 3634L. Lab to learn and apply scientific and evidence-based principles as they relate to technical psychomotor nursing skills. Graded S/U. Fall. M&S fee: $45.00

NUR 3065 CON-NURS 2(2.0) 
Health Assessment: PR: or C.I. 3005L, and admission to the School of Nursing or C.I. Concepts of health assessment of clients. Fall, Spring.

NUR 3065L CON-NURS 1(0,1) 
Health Assessment Lab: CR: NUR 3065 and admission to the School of Nursing or C.I. Clinical application of concepts and techniques of health assessment of clients. Fall, Spring. M&S fee: $15.00

NUR 3125 CON-NURS 3(3.0) 
Pathophysiology for Nursing Practice: PR: Admission to BSN program, successful completion of the first semester in the nursing curriculum. CR: Concurrent enrollment in NUR 3225; NUR 3225L; NUR 3145; NUR 3445; NUR 3445L. Concepts and nursing care applications of the pathophysiological basis of illness. Fall.

NUR 3145 CON-NURS 3(3.0) 
Pharmacology for Nursing Practice: PR: Admission to BSN program, successful completion of the first semester in the nursing curriculum, and concurrent enrollment in NUR 3225 NUR 3225L; NUR 3125; NUR 3445; NUR 3445L. Principles of pharmacology and application to nursing practice. Fall.

NUR 3165 CON-NURS 3(3.0) 
Nursing Research: PR: Admission to the BSN program; STA 2014C or 2023; for Basic program students: successful completion of the first semester. CR: BSN students: NUR 3005 and RN status; or C.I. Nursing research as a basis for nursing practice. Selected experiences in reviewing, analyzing, and interpreting nursing research for nursing practice. Fall, Spring.

NUR 3167 CON-NURS 1(2.0) 
Accelerated Nursing Research Seminar: PR: Admission to Accelerated BSN Option; previous undergraduate or graduate research course with approval from the CON. Accelerated study of systematic approaches to problematic situations in nursing. Selected experiences in investigating, analyzing, and interpreting nursing research and nursing issues. Spring.

NUR 3225 CON-NURS 3(3.0) 
Nursing Care of the Adult I: PR: Admission to BSN program, successful completion of the first semester in the nursing curriculum, and concurrent enrollment in NUR 3225L; NUR 3125; NUR 3445; NUR 3445L. Integrate biopsychosocial models of nursing practice for individuals and families experiencing health risks, short-term illness or chronic health problems. Fall.

NUR 3225L CON-NURS 3(0,9) 
Nursing Care of the Adult I Clinical: PR: Admission to BSN program; successful completion of all courses in the first semester of the nursing curriculum, and concurrent enrollment in NUR 3225L; NUR 3125; NUR 3445; NUR 3445L. Clinical experience applying biopsychosocial models of nursing practice for clients experiencing health risks, short-term illness, or chronic health problems. Graded S/U. Fall. M&S fee: $45.00

NUR 3445 CON-NURS 3(3.0) 
Nursing Care of Families: PR: Admission to BSN program, successful completion of the first semester in the nursing curriculum, and concurrent enrollment in NUR 3225 L; NUR 3125; NUR 3145; NUR 3445L. Concepts of family nursing as they relate to health promotion, maintenance and illness management needs of childbearing and childbearing families. Fall.

NUR 3445L CON-NURS 2(0,6) 
Nursing Care of Families Clinical: PR: Admission to BSN program, successful completion of the first semester in the nursing curriculum, and concurrent enrollment in NUR 3225 L; NUR 3125; NUR 3145; NUR 3445. Nursing practice to address health promotion, maintenance and illness management needs of childbearing and childbearing families. Graded S/U. Fall. M&S fee: $45.00

NUR 3634 CON-NURS 3(3.0) 
Community Health Nursing: PR: Admission to BSN program. CR: NUR 3028 and NUR 3028L; NUR 3755; NUR 3065 and NUR 3065L; NUR 3065L and NUR 3065L. Clinical concepts of community health nursing focusing on community as client, and levels of prevention across the lifespan. Graded S/U. Fall. M&S fee: $45.00

NUR 3634L CON-NURS 2(0,6) 
Community Health Nursing Clinical: PR: Admission to BSN program. CR: NUR 3028 and NUR 3028L; NUR 3755; NUR 3065 and NUR 3065L; NUR 3065L and NUR 3065L. Clinical concepts of community health nursing focusing on community as client, and levels of prevention across the lifespan. Graded S/U. Fall. M&S fee: $45.00

NUR 3755L CON-NURS 2(0,6) 
Essentials of Nursing Practice Clinical: PR: Admission to BSN Program. CR: NUR 3028 and NUR 3028L; NUR 3065 and NUR 3065L; NUR 3625, NUR 3634 and NUR 3634L. Application of the nursing process, scientific and evidence-based principles in the nursing care of clients in long-term care. Graded S/U. Fall. M&S fee: $45.00

NUR 3795 CON-NURS 3(3.0) 

NUR 3805 CON-NURS 3(3.0) 
International of Professional Nursing Practice: PR: Nursing majorjunior level or C.I. ENC 1102. Theoretical bases of professional nursing practice for RN to BSN students. Fall, Spring.

NUR 3806 CON-NURS 1(1,0) 

NUR 3825 CON-NURS 2(2.0) 
The Role of the Professional Nurse: PR: Admission to the school of Nursing. Examination of roles and function of the professional nurse, including professional standards, legal and practice issues. Fall, Spring.

NUR 3826H CON-NURS 3(3.0) 

NUR 3936 CON-NURS 3(2,2) 
International Perspectives of Nursing and Health Care: PR: Enrolled in School of Nursing or C.I. Comparative analysis of professional nursing practice and health care system in the United States and selected countries. May be repeated for credit. Occasional.

NUR 4084 CON-NURS 3(3.0) 
Transitional Concepts in Nursing II: PR: NUR 3065, NUR 3145. Enhancement of knowledge from basic Registered Nurse programs and continuation of study from NUR 3805. Fall, Spring.

NUR 4196 CON-NURS 3(3.0) 

NUR 4257 CON-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. Spring.

NUR 4286 CON-NURS 3(3.0) 
Gerontologic Nursing: PR: NUR 4286 or RN status or C.I. Theories and principles related to the promotion, maintenance, and restoration of health in older adults in various settings. Occasional.
NUR 4525 CON-NURS 2(2,0)
Nursing Intervention in Mental Illness: PR: Completion of all Jr. level Fall and Spring courses or C.I. Nursing application of theories, treatment modalities and skills specific to clients with a primary diagnosis of mental illness. Fall, Spring.

NUR 4525L CON-NURS 1(0,1)
Clinical Practice with Mentally Ill Clients: PR: Completion of all Jr. level Fall and Spring courses or C.I. Clinical practice in acute healthcare settings serving clients with a primary diagnosis of mental illness. Graded S/U. Fall, Spring.

NUR 4550 CON-NURS 3(3,0)
Family and Interpersonal Violence: Perspectives for Nurses: PR: PSY 2012, SYG 2000 and enrollment in a nursing program or C.I. Family and interpersonal violence education to increase effective nursing responses including: history, categories, cycles, laws, intervention, nursing resources, protocols and resources. Occasional.

NUR 4604L CON-NURS 4(0,12)
PRACTICUM IN COMMUNITY AND PUBLIC HEALTH NURSING FOR RNs: PR: NUR 3334, CCR, NUR 4637, NUR 4637, and NUR 4XXX Public Health Nursing. Synthesis of theories and concepts incorporated throughout the curriculum, applied in the community health and public health nursing setting, and directed toward professional role development. Graded S/U. Fall, Spring.

NUR 4636 CON-NURS 3(3,0)
Community as the Continuum of Care: PR: Completion of all Jr. level and Sr. Fall courses or C.I. Theories and principles of community health nursing and application to clinical practice within a community oriented framework for nursing care. Fall, Spring.

NUR 4636L CON-NURS 2(0,2)
Clinical for Community as the Continuum of Care: PR: Completion of all Jr. level and Sr. Fall courses or C.I. Clinical application of theories and principles of community health nursing and application to clinical practice within a community oriented framework for nursing care. Graded S/U. Fall, Spring. M&S fee: $45.00

NUR 4639 CON-NURS 2(2,0)
Accelerated Community as a Continuum of Care: PR: NUR 4745, NUR 4745L, NUR 4525, NUR 4525L, NUR 3167. CR: NUR 4945L, NUR 4929, NUR 4636L. Focus on knowledge needed in a community oriented practice model to effect changes in health status and risk, and self care capacity of target population. Occasional.

NUR 4675 CON-NURS 3(3,0)
Issues in Rural Health Care: PR: NUR 3065 or Junior Status or C.I. The rural environment and appropriate health care services and programs for rural populations. Occasional.

NUR 4676 CON-NURS 3(3,0)
Health Care of Special Populations: Homeless: PR: Completion of junior level courses or equivalent or C.I. Emphasis on socioeconomic, political, nursing, medical, and mental health practice and research related to care of the homeless. Occasional.

NUR 4745 CON-NURS 4(4,0)
Nursing Care of Clients with Acute and Life-threatening Illness across Lifespace: PR: Completion of all Jr. level Fall and Spring courses or C.I. Nursing care of clients experiencing acute, unstable, or life threatening health problems. Fall, Spring.

NUR 4745L CON-NURS 4(4,0)
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, and life threatening health conditions. Graded S/U. Fall, Spring. M&S fee: $45.00

NUR 4812C CON-NURS 4(1,3)
Practicum and Role Development for RN’s: PR: For students enrolled in the RN-BSN program only. PR: or CR: NUR 4945, NUR 4945L, NUR 4827, NUR 4837. Synthesis of theories and concepts incorporated throughout the curriculum applied to a selected area of nursing practice and directed toward professional role development. Graded S/U. Fall, Spring.

NUR 4827 CON-NURS 3(3,0)
Leadership and Management Principles: PR: NUR 3805, RN Status or C.I. Scientific theories and principles of leadership and management needed to function in leadership, management, and teaching roles in professional nursing. Application of decision making process. Fall, Spring.

NUR 4828 CON-NURS 2(0,2)

NUR 4829 CON-NURS 3(3,0)

NUR 4835 CON-NURS 2(2,0)
Role Transition: PR: Completion of all Jr. level and Sr. Fall classes or C.I. Professional development and role transition of the baccalaureate graduate entering professional nursing practice. Spring.

NUR 4836 CON-NURS 3(1,2)

NUR 4837 CON-NURS 3(3,0)
Health Care Issues, Policy, and Economics: PR: Completion of all Jr. level and Sr. level Fall courses or C.I. Study of selected health care policy issues relevant to the financing, organization, and delivery of nursing services to populations in the community. Fall, Spring.

NUR 4838L CON-NURS 2(0,2)


NUR 4907H CON-NURS 3(3,0)
Directed Reading/Research-Honors: PR: Permission of Honors. This course provides students with faculty mentorship through the process of writing and defending the Honors Thesis or Project. Occasional.

NUR 4942L CON-NURS 3(0,3)
Nursing Practicum for International Students: PR: CI (Consent of Instructor). In-depth study of clinical nursing practice for international students. Graded S/U. May be used in the degree program a maximum of 2 times. Occasional.

NUR 4945L CON-NURS 4(0,4)
Nursing Practicum: PR: Admission to the BSN program; STA 2014C or 2023; for Basic program successful completion of the first three semesters; for RN to BSN students; NUR 5805 and RN status or C.I. Designed to enhance student’s knowledge and expertise in an area of nursing practice chosen by the student and school of nursing faculty. Graded S/U. Spring.

NUR 4971H CON-NURS 3(3,0)
Thesis or Project Works-Honors: PR: Permission of Honors. This course provides students with faculty mentorship through the process of writing and defending the Honors Thesis or Project. Occasional.

OCE 3008 COS-BIOL 3(3,0)

OCE 3490 OPT-OPT 3(3,0)
Optoelectronics: PR: PHY 2049 or C.I. Optoelectronic circuits and systems on nano scale and interactions with elements of physics & engineering. Occasional.

OCE 5041 OPT-OPT 3(3,0)
Introduction to Wave Optics: PR: EEL 4440 or PHY 4424 or C.I. Electromagnetic foundation of light waves as applied to reflection, diffraction, interference, polarization, coherence, and guided waves. Occasional.

OCE 5050 OPT-OPT 3(3,0)
Fundamentals and Applications of Photonics: PR: Graduate standing or C.I. Introduction to optical and photonics emphasizing the concepts governing applications of current interest for science and engineering senior and first-year graduate students and working scientists and engineers. Occasional.

OCE 5051L OPT-OPT 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. Occasional.

OCE 5111 OPT-OPT 3(3,0)
Optical Wave Propagation: PR: Graduate standing or C.I. Optical propagation of light waves as applied to isotropic, anisotropic, and inhomogeneous media, guided waves and Gaussian beams. Odd Fall, Even Spring.

OCE 5115 OPT-OPT 3(3,0)
Interference and Diffraction: PR: Graduate status or senior standing, or C.I. Interference of light, optical interferometry,Fraunhofer and Fresnel scalar diffraction, diffraction gratings, temporal coherence, spatial coherence, and partial coherence. Fall, Odd Spring.

OCE 5143 OPT-OPT 3(3,0)

OCE 5203 OPT-OPT 3(3,0)
OSE 5234L OPT-OPT 3(1,3) Applied Optics Laboratory: PR: Graduate Standing or C.I. Laboratory Techniques for observing optical phenomena and quantitative experimental study of geometrical optics, optical interferometry, diffraction, and image processing. Odd Fall.

OSE 5312 OPT-OPT 3(3,0) Fundamentals of Optical Science: PR: Graduate standing or C.I. Microscopic theory of absorption, dispersion, and refraction of materials; wave propagation, introduction to lasers and nonlinear optics. Even Fall, Odd Spring.

OSE 5313 OPT-OPT 3(3,0) Materials for Optical Systems: PR: Graduate standing or C.I. Course will review key attributes of optical materials that allow them to be used in a range of applications, devices and components in optical systems. Occasional.

OSE 5414 OPT-OPT 3(3,0) Fundamentals of Optoelectronic Devices: PR: Graduate standing or C.I. Operation, methods of fabrication, applications, and limitations of various optoelectronic devices including quantum well semiconductor devices. Even Fall.

OSE 5421 OPT-OPT 3(3,0) Integrated Optics: PR: Graduate standing or C.I. The propagation and loss characteristics in dielectric optic waveguides, fundamental concepts of both integrated and fiber optic devices, numerical modeling of complex integrated optical components. Odd Spring.

OSE 5511 OPT-OPT 3(3,0) Laser Principles: PR: PHY 2101, MAP 2302, PHY 4424, graduate status or senior standing, or C.I. Classical introduction to the basic principles of laser gain media, properties of resonators and modes, description of specific laser systems. Occasional.

OSE 5630C OPT-OPT 3(2,1) Thin Film Optics: PR: PHY 4424 or EEL 4440 and OSE 5041 or OSE 550C. Principles of thin film optics and its applications in optical, electro-optical, and laser systems. Occasional.

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. Fall, Spring.

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. Occasional.

PAD 3330 HPA-PUB 3(3,0) Urban and Regional Planning: PR: PAD 3003 or C.I. Planning topics such as land-use, and comprehensive and urban planning as they relate to the physical aspects of the natural and human environment. Fall, Spring.

PAD 3930 HPA-HPA 1(1,0) American Humanities Human Service Workshop: PR: Enrollment in American Humanities Minor or National Certificate Program through American Humanities Program office. Discussion and activity based course exploring non-profit competencies to prepare students for management and leadership positions in human services. Student Association activities included. May be repeated for credit. Fall, Spring.

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 administra-

PAD 4104 HPA-PUB 3(3,0) Administrative Theory: A review of the behavioral aspects of the administrative process, its impact on organizational goal achievement and on supervisory strategies. Some social and structural pathologies affecting administrative practice. Fall, Spring.

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. Fall.

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. Occasional.

PAD 4144 HPA-PUB 3(3,0) Non-Profit Organizations: PR: PAD 3003 or C.I. The operations of non profit organizations, including working with board of directors, volunteer services, fund-raising and grantmanship, financial management and marketing. Fall, Spring.

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. Fall.

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. Spring.

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. Fall.

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. Fall, Spring.

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. Occasional.

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. Fall.

PAD 4295 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. Spring.

PAD 4331 HPA-PUB 3(3,0) Land Use and Planning: PR: PAD 3330 or C.I. The study of land use and planning to include zoning variances, non-conformities, development agreements, subdivision controls, redevelopment and sprawl. Fall.

PAD 4334 HPA-PUB 3(3,0) Urban Design: CR: PAD 3330 or C.I. Theories and concepts of the physical, cultural, social and financial factors associated with urban design. Spring.
UCF Courses and Descriptions

PAD 4948 HPA-PUB 3(3,0) American Humanics Internship: PR: Enrollment in American Humanics AH Certification Program, completion of 2 AH restricted course electives and approval of AH Campus Director. Supervised internship to demonstrate AH identified competencies for students in American Humanics certification program. Requires minimum of 300 hours placement in nonprofit human services organization. May be repeated for credit. Fall, Spring.

PAD 5041 HPA-PUB 3(3,0) Ethics and Values in Public Administration: Examination of ethics in the public sector. Public concerns, past patterns, and individual/social aspects of ethical behavior are explored. Occasional.

PAD 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. Fall, Spring.

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. Fall, Spring.

PAD 5336 HPA-PUB 3(3,0) Introduction to Urban Planning: Issues of urbanization, regional development, land use and comprehensive planning, environmental planning, and social planning. Fall.

PAD 5337 HPA-PUB 3(3,0) Urban Design: Planning techniques such as planned unit developments, capital improvements planning, and growth management, and planning methods, including needs assessment and graphic design. Fall.

PAD 5338 HPA-PUB 3(3,0) Land Use and Planning Law: Review of national and local aspects of the legal underpinnings of urban planning aspects such as zoning, growth management, and environmental regulation. Spring.

PAD 5356 HPA-PUB 3(3,0) Managing Community and Economic Development: PR: Graduate standing or C.I. Overview of economic development activities focusing on policy and managerial issues at the local level. Spring.

PAD 5425 HPA-PUB 3(3,0) Dispute Resolution in the Public Sector: An examination of the skills needed to resolve disputes in the public sector through facilitation, mediation, and other alternative methods. Occasional.

PAD 5427 HPA-PUB 3(3,0) 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. Occasional.

PAD 5806 HPA-PUB 3(3,0) Local Government Operations: Operational Functions of municipal and county governments and the role of the chief executive officer. Occasional.

PAD 5807 HPA-PUB 3(3,0) Administrative Practice in the Public Sector: The application of various theoretical concepts to the “real world” of public administration. Policy formulation and execution are examined through the case study mode. Occasional.

PAD 5850 HPA-PUB 3(3,0) Grant and Contract Management: PR: PAD 3003 or C.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. Fall, Spring.

PAF 2102 HPA-HPA 2(2,0) Public Affairs Careers: Introduction and examination of public affairs programs of study and career opportunities that will prepare students for future careers. Fall.


PAZ 5235 COS-BIOL 3(3,0) Zoo and Aquarium Biology Management: PR: Successful completion of PCB 3044 and PCB 3063 and C.I. Conservation, propagation and exhibition of wild animals in captivity. Occasional.

PCB 3023 COS-BIOL 3(3,0) Molecular Cell Biology: PR: BSC 2010C, CHM 2210, and PCB 3063, or C.I. Molecular structure and function of eukaryotic organelles. Transcription: RNA processing, translation, and post translation targeting and modification of gene products. Fall, Odd Spring.

PCB 3024L COS-BIOL 2(0,8) Molecular Cell Biology Laboratory: PR: or CR: PCB 3023, Critical thinking, technical skills, and integration of biochemical, molecular, and microscopic experimental approaches to understanding cell structure and function. Occasional.

PCB 3044 COS-BIOL 3(3,0) Principles of Ecology: PR: BSC 2010C, BSC 2211, and CHM 2045C, or C.I. Elements of ecosystems, biogeochemical cycling, environmental factor interactions, population dynamics, and community development. Fall.

PCB 3044L COS-BIOL 1(0,3) Principles of Ecology Laboratory: PR: or CR: PCB 3044 or C.I. Field and laboratory investigations of natural ecosystems, with emphasis on current methodology in ecology. Fall. M&S fee: $15.00

PCB 3063 COS-BIOL 3(3,0) Genetics: PR: BSC 2010C and CHM 2046, or C.I. Basic principles of heredity as applied to prokaryotes and eukaryotes. Fall, Spring.

PCB 3063H COS-BIOL 3(3,0) Honors Genetics: PR: BSC 2010C and CHM 2046, or C.I. Examination of national and local developments in employment relations in the public sector, regional development, land use and comprehensive planning, environmental planning, and social planning. Fall.

PCB 3063L COS-BIOL 1(0,3) Genetics Laboratory: PR: or CR: PCB 3063 or C.I. Introduction to laboratory techniques of genetics. Fall, Spring. M&S fee: $28.00

PCB 3233 BCBS-M&M 3(3,0) Immunology: PR: BSC 2010C. Basic principles of immune reactions, antigen antibody interactions, cell mediated immunity, tumor immunology, and immune therapy. Fall.

PCB 3233L BCBS-M&M 1(0,3) Immunology Laboratory: CR: PCB 3233. Introduction to laboratory techniques in immunology. Fall, Spring. M&S fee: $20.00


PCB 3355C COS-BIOL 2(1,1) Tropical Marine Biology: PR: BSC 2010C and BSC 2011C or C.I. An intensive, one week field course at an institute of marine science. Diving/snorkeling will be used extensive- ly to study organisms on pristine coral reefs. Occasional.

PCB 3342 COS-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. Occasional.

PCB 3522 BCBS-M&M 3(3,0) Molecular Biology I: PR: CHM 2211 and MCB 3020C or C.I. The general principles governing the structure and function of both procaryotic and eucaryotic genes. Fall, Spring.

PCB 3703C BCBS-M&M 4(3,3) Human Physiology: PR: BSC 2010C, CHM 1032 or CHM 2045C. The physiology and interrelationships of organ systems of the human body. Fall, Spring. M&S fee: $55.00


PCB 4026 BCBS-M&M 3(3,0) Molecular and Cellular Pharmacology: PR: PCB 3522. The cellular and molecular events that lead to disease states and the molecular basis of agents that modulate these processes will be covered. Spring.


PCB 4239 BCBS-M&M 3(3,0) Molecular Immunology: PR: PCB 3522. Advanced understanding of the workings of the immune system, correlating cellular and molecular mechanisms with clinical cases. Spring.

PCB 4251 BCBS-M&M 3(3,0) Tissue Engineering: PR: MCB 3020C or CHM 2045C. Tissue engineering with a special emphasis on the current status of the field, on novel methods and on cell-biomaterial interactions. Occasional.

PCB 4303C COS-BIOL 4(3,4)

PCB 4353 COS-BIOL 3(3,0)
Florida Natural History: PR: PCB 2010C and PCB 2011C, or C.I. Florida's ecology, past and present flora and fauna, and naturalists who visited the state. Occasional.

PCB 4514 COS-BIOL 3(3,0)
Genetics II: PR: PCB 3063. Advanced topics in Genetics, including extra-nuclear inheritance, epigenesis, gene and chromosome mutation, genetics of development and behavior, and advanced genetic analytical techniques. Occasional.

PCB 4524 BCBS&M&M 3(3,0)

PCB 4524H BCBS&M&M 3(3,0)
Molecular Biology II-Honors: PR: Permission of Honors and PCB 3522. Same as PCB 4524 with honors level content. Spring.

PCB 4529 BCBS&M&M 3(3,0)

PCB 4683 COS-BIOL 4(4,0)
Population Biology and Evolution: PR: PCB 3044 and PCB 3063 or equivalents. Demographic and genetic structure of populations and their relationship to speciation, adaptation, and macroevolutionary processes in plants and animals. Fall, Spring.

PCB 4683L COS-BIOL 1(0,2)
Population Biology and Evolution Lab: PR: or CR: PCB 4683. Reading, problem solving and discussion on current topics in evolutionary biology. Fall, Spring. M&S fee: $10.00

PCB 4723 COS-BIOL 4(4,0)
Animal Physiology: PR: PCB 3022 or C.I. Functions of body processes occurring in animals, with emphasis on vertebrate physiology. Fall.

PCB 4805 BCBS&M&M 3(3,0)

PCB 5045C COS-BIOL 4(2,0)
Conservation Biology: PR: PCB 3044 and PCB 3063 or C.I. Scientific basis of conservation; conservation of ecosystems, populations, exploited species, and endangered species. Weekend field trips are required. Occasional. M&S fee: $15.00

PCB 5238 BCBS&M&M 3(3,0)
Immunobiology: PR: PCB 3233, PCB 4239. Advanced topics in immune system dysregulation with special emphasis on innate immunity. Spring.

PCB 5239 BCBS&M&M 3(3,0)
Tumor Biology: PR: PCB 4524. A course designed to provide an introduction and broad overview of the current knowledge and research in the field of cancer biology. Occasional.

PCB 5275 BCBS&M&M 3(3,0)
Signal Transduction Mechanisms: PR: PCB 3522 and PCB 4524. A course emphasizing various signal transduction cascades used in mammalian cells to control growth and differentiation. Discussion of original research papers will occur. Occasional.

PCB 5326C COS-BIOL 5(3,2)
Ecosystems of Florida: PR: PCB 3044, PCB 3044L or equivalent, and graduate status or senior standing or C.I. Ecosystems of Florida will be discussed to include geography, geology, climate, energetics, nutrient cycling, community structure and conservation. Occasional. M&S fee: $15.00

PCB 5435C COS-BIOL 4(2,6)
Marine Ecology of Florida: PR: BSC 4312, graduate status or senior standing, or C.I. Survey of experimental methods used in the study of marine communities in central and southern Florida, combining field manipulation and readings from primary literature. Odd Spring. M&S fee: $45.00

PCB 5485 COS-BIOL 3(3,0)
Models in Ecology: PR: PCB 3044, MAC 2311 (or equivalent), and graduate status or senior standing or C.I. A survey of how simulation models are applied to ecological questions of both a theoretical and managerial nature. Occasional. M&S fee: $15.00

PCB 5665C COS-BIOL 4(3,2)
Human Genetics: PR: PCB 3063, graduate status or senior standing, or C.I. Human Genetics provides a theoretical framework for understanding the biology of the human species. Occasional. M&S fee: $15.00

PCB 5935 COS-BIOL 3(3,0)
Current Research in Population Genetics and Evolution: PR: Genetics and Population Biology or graduate status or senior standing or C.I. A survey of various topics in population genetics and application to evolutionary theory. Occasional.

PCO 4203 COS-PSYCH 4(3,2)
Interviewing and Counseling: PR: PSY 2012, PPE 3003, CLP 3143 and C.I. A survey of various interviewing and counseling theories and techniques used in Mental Health settings as well as practical experience in interviewing and counseling procedures. Fall, Spring.

PEL 2011 ED-TLP 2(1,1)
Basic Volleyball and Softball: The analysis of offensive and defensive alignment, techniques, and strategies. Occasional.

PEL 2111 ED-TLP 2(1,1)
Bowling: A study of the fundamentals of bowling techniques and the development of skills based on those fundamentals. Fall, Spring.

PEL 2112 ED-TLP 2(1,1)
Intermediate Bowling: PR: PEL 2111, bowling experience, or average of 140 verification by league sheet. This course provides in-depth information that is necessary for the development of high bowling averages. Occasional.

PEL 2121 ED-TLP 2(1,1)
Beginning Golf: Performance and application of basic skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. Fall, Spring.

PEL 2122 ED-TLP 2(1,1)

PEL 2341 ED-TLP 2(1,1)
Beginning Tennis: Performance and application of basic skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. Occasional.

PEL 2342 ED-TLP 2(1,1)
Intermediate Tennis: PR: PEL 2341 or equivalent competency. Performance and application of advanced skills, rules, and etiquette. Physiological and social values accruing from this lifetime sport. Occasional.

PEL 2640 ED-TLP 2(1,1)
Basic Football and Basketball: The analysis of offensive and defensive alignment, techniques, and strategies. Occasional.

PEM 2011 ED-TLP 2(1,1)
Body Development: An in-depth study of individual physical (musculo-skeletal, neuromuscular, cardio-respiratory) fitness. Emphasis on individual diagnosis, principles, procedures, and conduct of related exercise programs. Fall, Even Spring.

PEM 2104 ED-TLP 3(2,1)
Personal Fitness: Study of personal fitness concepts with opportunities to develop an individual, optimal level of fitness and an improved lifestyle through high-level wellness. Fall, Spring.

PEM 2121C ED-TLP 3(1,3)
Yoga: Performance and application of a series of basic movement, breathing, and concentration techniques designed to enhance body awareness, flexibility, strength, and balance, and to allow the mind to be focused and centered. Fall, Spring.

PEM 2131 ED-TLP 2(1,1)
Strength Resistance Training: Study of fitness and strength development through resistance exercise. Fall, Spring.

PEM 2171 ED-TLP 2(1,1)
Aerobics: Appropriate rhythmical muscle toning movements that develop aerobic fitness; concepts taught include warm-up, flexibility, stretching, cool down, and heart rate. Fall, Spring.

PEM 2173 ED-TLP 2(1,1)
Step Aerobics: Appropriate rhythmical muscle toning movements utilizing the step to develop aerobic fitness. Concepts taught include warm-up, flexibility, work-out, and cool-down. Occasional.

PEM 2175 ED-TLP 2(1,1)
Country/Western Dance: Basic instruction in Country/Western Dance. Improve aerobic fitness by learning line dances, circle dances and basic partner steps, such as two-step and waltz. Occasional.

PEM 2405 ED-TLP 3(1,2)
Self Defense for Women and Men: Designed to provide students with self-defense skills. Fall, Spring.

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. Occasional.

PEM 5408C ED-TLP 3(2,1)
Controlling Classroom Violence: PR: Graduate standing; certified teacher. A hands-on course dealing with controlling disruption and violence as well as how teachers can protect themselves. Occasional.

PEN 1121 ED-TLP 2(1,1)
Elementary Swimming: For non-swimmers and beginning swimmers. Development and study of technique in the basic skills of water safety and swimming. Occasional.

PEO 2011 ED-TLP 3(2,1)
Team Sports: This course is designed to develop skill proficiency and knowledge to plan, implement and evaluate team sports as part of the Physical Education program. Fall, Spring. M&S fee: $5.00

PEO 2031 ED-TLP 3(2,1)
Individual Sports: Skill proficiency and knowledge to plan, implement and evaluate individual sports. Fall, Spring. M&S fee: $9.00
PEO 2624 ED-TLP 3(2,1)
Coaching Basketball: Theory and methods of coaching basketball, including the analysis of offensive and defensive techniques and strategies. Fall.

PEO 3041 ED-TLP 3(3,0)

PEO 3324 ED-TLP 3(2,1)
Coaching Volleyball: Theory and methods of coaching volleyball, including the analysis of offensive and defensive alignment techniques and strategies. Spring.

PEO 3644 ED-TLP 3(2,1)

PEO 5645C ED-TLP 3(2,1)

PEP 3205 ED-TLP 3(2,1)
Gymnastics: This course is designed to develop skill proficiency and instructional strategies in gymnastics. Occasional.

PET 2081 ED-TLP 1(1,0)
Wellness, Children and Schools: Exploration and promotion of wellness for children in schools. Fall, Spring.

PET 2622C ED-TLP 3(2,1)

PET 3084 ED-TLP 3(3,0)
Triathlon Training and Performance: PR: PEM 2104 Personal Fitness or C.I. Triathlon concepts, training, and performance, leading to the development of optimal fitness and an improved healthy lifestyle. Occasional.

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. Fall.

PET 3214 COS-PSYCH 3(3,0)
Sports Psychology: A review of principles of psychology related to the enhancement of satisfaction and performance in sports. Occasional.

PET 3361 ED-TLP 3(3,0)
Nutrition for Sports and Fitness: PR: ZOO 3736C or C.I. Study of nutrition with focus on the strategies designed to meet nutrient demands for physical activity, exercise, and athletic performance in sports and fitness. Fall.

PET 3510C HPA-HP 3(2,1)
Physiologic & Metabolic Basis of Human Movement & Performance: PR: Admission to Health Sciences - Athletic Training Track. Exercise physiology, drugs & nutrition, and performance & injury; each focusing on the key elements for the application of athletic training principles. Fall.

PET 3620 HPA-HP 3(3,0)

PET 3623C HPA-HP 3(2,2)
Recognition and Evaluation of Athletic Injuries I: PR: PET 3620C. Recognition and evaluation skills required to perform an injury assessment of the upper extremity, head and neck, and provision of immediate management. Fall.

PET 3633C HPA-HP 2(1,1)
Clinical Skills for Athletes Trainers: PR: Athletic Training majors only. PET 4630C or C.I. Clinical skills including functional knowledge of muscle, tendon, and ligament anatomy; advanced taping and bracing skills; and clinical assessment skills. Fall. M&S fee: $30.81

PET 3670C HPA-HP 4(0,8)
Practicum in Athletic Training I: PR: PET 3620C. Clinical introduction to an athletic training site under direct supervision of a Certified athletic trainer. Fall.

PET 3671C HPA-HP 4(0,8)
Practicum in Athletic Training II: PR: PET 3670C. Continuation of Clinical practicum under direct supervision of Certified athletic trainer. Spring.

PET 3740C ED-TLP 2(1,1)
Teaching Physical Education in the Secondary and Middle School (6-12): PR: Admission to Junior Block, or C.I. Curricular and instructional considerations for teaching secondary and middle school physical education. Occasional.

PET 3765 ED-TLP 3(3,0)
Coaching Theory: PR: Admitted to COE or C.I. Theories of coaching team and individual sports. Fall, Spring.

PET 3768 ED-TLP 3(3,0)
Group Exercise Instruction: PR: Admission to the B.S. in Sports and Fitness program or C.I. Requisite knowledge of a variety of group exercise instruction modalities. Fall, Spring.

PET 3771 ED-TLP 3(3,0)
Fitness and Conditioning Concepts: PR: ZOO 3736C or C.I. The integration of advanced components of muscular strength training and endurance conditioning for the sports and fitness professional. Fall.

PET 3820 ED-TLP 3(2,1)
Teaching Sports Skills I: PR: PEO 2011 or PEO 2031. Skill proficiency and knowledge to plan, implement and evaluate sports and leisure activities in physical education programs. Occasional.

PET 3940 ED-TLP 3(3,0)
Internship I Physical Education: PR: EDG 4323; CR: PET 3930. Student teaching in a physical education program under the supervision of a certified classroom teacher. Occasional.

PET 3941 ED-TLP 6(0,16)

PET 4002 ED-TLP 3(1,2)
Outdoor and Leisure Activities: Study of contemporary outdoor and leisure activities. Course will include but not be limited to the “adventure activity curriculum,” camping, water activities, fishing, orienteering, hiking. Occasional.

PET 4050C ED-TLP 3(2,1)

PET 4083C ED-TLP 4(3,1)
Practical Fitness Training: PR: PET 4312, PET 4351C, PET 2622C, PET 4650, PEM 2711. An in-depth study into fitness-related concepts as they are applied to individuals and groups. Fall.

PET 4088 ED-CFCS 3(3,0)
Physical Activity & Preventive Medicine: PR: ZOO 3736C or C.I. Critique and analysis of evidence that exercise training can prevent some diseases and increase quality of life. Occasional.

PET 4215 ED-TLP 3(3,0)
Motivational Aspects of Athletic Performance: PR: Coaching minor or C.I. Theories of attitude, motivation, effort, persistence, mental focus, visualization, and an exploration of techniques to enhance athletic performance. Fall, Spring.

PET 4312 ED-TLP 3(2,1)
Biomechanics: PR: Anatomy. The comprehension and application of anatomical and mechanical principles involved in human movement. Fall.

PET 4315C HPA-HP 3(2,2)
Biomechanics of Sport: PR: PET 4630C. Assessment and recognition of physiological and mechanical aspects of sports and injuries. Fall, Spring.

PET 4351C ED-TLP 3(2,1)
Applied Exercise and Human Physiology: PR: ZOO 3736C, ZOO 3736C or appropriate human anatomy course. Metabolic, neuromuscular, respiratory and cardiovascular physiological concepts and principles with practical application to physical education and sport. Fall, Spring.

PET 4401 ED-TLP 3(3,0)
Administration and Evaluation in Physical Education: This course is designed to address administrative, measurement and evaluation considerations of physical education programs. Fall, Spring.

PET 4550 ED-TLP 3(2,1)

PET 4603C HPA-HP 3(2,2)
Introduction to Athletic Training: PR: Athletic Training majors only or C.I. Basic athletic training skills including emergency care, taping and wrapping, goniometry and manual muscle testing. Occasional. M&S fee: $33.50

PET 4604 HPA-HP 3(3,0)
Sports Medicine Field Application: Demonstration and application of the treatment for various sports injuries. Spring.

PET 4606 HPA-HP 3(3,0)
Applied Fitness in Sport: PR: PET 3671C. Appreciation and clinical application of fitness regarding athletics. Spring.

PET 4624C HPA-HP 3(2,2)
Recognition and Evaluation of Athletic Injuries II: PR: PET 3620C and PET 3623C. Recognition and evaluation skills required to perform an injury assessment of the lower extremity, spine, and general medical conditions and provision of immediate management. Spring.

PET 4625 ED-TLP 3(3,0)

PET 4630C HPA-HP 4(2,4)

PET 4632C HPA-HP 4(2,4)
PET 4636C HPA-HP 2(1.1) Advanced Rehabilitation in Athletic Training; PR: Athletic Training majors only. PET 4630C or C.I. Advanced knowledge, skills, and techniques that the certified athletic trainer must perform during rehabilitation of injuries. Fall.

PET 4640 ED-TLP 3(3.0) Adapted Physical Education: Principles and methods of adapting physical education activities and programs for exceptional children and adults; mainstreaming rationale and methods analyzed. Spring.

PET 4660C HPA-HP 3(3.0) Organization and Administration of Athletic Training: PR: PET 3671C. Administrative knowledge in the athletic training profession. Fall.

PET 4672C HPA-HP 4(0.8) Practicum in Athletic Training III: PR: PET 3671C. Advanced clinical internship with increased responsibilities under the supervision of a certified athletic trainer. Fall.

PET 4673C HPA-HP 4(0.8) Practicum in Athletic Training IV: PR: PET 4672C. Advanced clinical internship with increased responsibilities under the supervision of a certified athletic trainer. Spring.


PET 4710 ED-TLP 3(3.0) Teaching Physical Education K-12: PR: Must be admitted to internship. Develop effective instructional skills through planning, teaching, and assessment. Curricular and instructional considerations for teaching Physical Education. Odd Fall, Even Spring.

PET 4724 ED-TLP 3(3.0) Development and History of Physical Education Curriculum: A study of the factors involved in curriculum development and historical and philosophical considerations of physical education programs. Occasional.

PET 4763 ED-TLP 3(3.0) Coaching Methods and Principles: PR: Junior standing, Coaching minor or C.I. Assist students in understanding and conceptually integrating teaching methods/coaching strategies with emphasis given to conditioning and leadership styles. Occasional.

PET 4823C ED-TLP 3(2.1) Teaching Sports Skills II: PR: PET 3820. Skill, proficiency and knowledge to plan, implement and evaluate sports skills. Odd Fall, Even Spring.

PET 4925 ED-TLP 3-6(0.16) Sports and Fitness Practicum I: PR: Overall GPA of 2.5 and completion of 2/3 of the Sports and Fitness program requirements. Field experience in a sports and fitness related organization. Occasional.

PET 4926 ED-TLP 9-12(0.35) Sports and Fitness Practicum II: PR: Sports & Fitness Practicum I and overall GPA of 2.5. Field experience in a sports and fitness related organization, association, or business. Occasional.

PET 4943 ED-TLP 12(0.35) Internship II: PR: Must have completed course work in specialization. Satisfactory completion of portfolio. Full time student teaching under a certified elementary or secondary physical education teacher. May be repeated for credit. Graded S/U. Occasional.

PET 4945 ED-TLP 12(0.35) Internship III: PR: Must have completed course work in specialization. Satisfactory completion of portfolio. Full time student teaching under a certified elementary or secondary physical education teacher. Occasional.
UCF Courses and Descriptions

PHH 3100 CAH-PHIL 3(3,0)
Ancient Philosophy: PR: PHI 2010 or C.I. Foundations of Western philosophy in ancient Greek thinking about human beings and nature, including the pre-Socratics, Socrates, Plato, Aristotle. Occasional.

PHH 3200 CAH-PHIL 3(3,0)
Medieval Philosophy: PR: PHI 2010 or C.I. The influence of Greek philosophical thought in medieval Muslim, Jewish and Christian philosophy, as expressed in its main problems and representative thinkers. Occasional.

PHH 3460 CAH-PHIL 3(3,0)
Modern Western Philosophy: PR: PHI 2010. Major western philosophers and philosophical movements from Descartes to Nietzsche. Even Fall.

PHH 3510 CAH-PHIL 3(3,0)
Marx and Nietzsche: PR: Junior standing. The philosophies of Marx and Nietzsche, important differences in outlook and emphasis, the significance of their respective critiques of society, the implications of their contrasting standpoint for understanding human life, the philosophical and ideological influences of their work, and their contemporary relevance. Occasional.

PHH 3600 CAH-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. Occasional.

PHH 3700 CAH-PHIL 3(3,0)
American Philosophy: PR: PHI 2010 or AMH 2210 or AMH 3200 or C.I. A thematic and chronological survey of philosophical, religious, and scientific developments in American thought, with primary focus on the American spirit of individualism and reform. Even Fall.

PHI 2010 CAH-PHIL 3(3,0)
Introduction to Philosophy: PR: PHI 2010. An examination of the nature of moral problems, judgements and principles, with an emphasis on the role of language in ethical and metaphysical claims. Even Fall.

PHI 2010H CAH-PHIL 3(3,0)
Honors Introduction to Philosophy: PR: Permission of Honors. Same as PHI 2010 with honors-level content. Fall.

PHI 2011 CAH-PHIL 3(3,0)
Philosophical Reasoning: A study of reasoning in philosophy; the role of consistency, infinite regress arguments, modeling, and system building, discovery procedures, diagonalization, and contract and paradigm case arguments. Occasional.

PHI 2011I CAH-PHIL 3(3,0)
Formal Logic I: A study of sentence and predicate logic, with introduction to modal, epistemic, deontic, multi-valued, and indeterminant logics. Occasional.

PHI 2108 CAH-PHIL 3(3,0)
Critical Thinking: The logic of conversation, informal fallacies, and reasoning about human action. Occasional.

PHI 2630 CAH-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. Occasional.

PHI 2647 CAH-PHIL 3(3,0)
Logic and Ethics: PR: PHI 2101 or COT 3100C or MAD 2104. Research in logic applied to ethics, especially for science and technology. Uses of simulation and modeling to study philosophical problems in ethics. Occasional.

PHI 3022 CAH-PHIL 3(3,0)
Sexuality, Gender & Philosophy: PR: WST 3015, PHI 2010, PHI 3123, or C.I. Examines the contributions of post-structuralist and neopsychoanalytical theories to cultural issues in sexuality and gender. Even Spring.

PHI 3033 CAH-PHIL 3(3,0)
Philosophy, Religion, and the Environment: PR: Junior standing or C.I. A mult-cultural treatment of the influence of philosophical and religious views on our understanding of, and relation to, the environment. Occasional.

PHI 3083 CAH-PHIL 3(3,0)
Research Methods in Philosophy: PR: Philosophy or Humanities major or C.I. Sources, methods, and styles of research in Philosophy. Aimed at enhancing the research, reading, and writing skills of undergraduate philosophy students. Odd Fall.

PHI 3131 CAH-PHIL 3(3,0)
Formal Logic II: PR: PHI 2101. Systematic study of propositional and first-order predicate logic, including soundness and completeness theorems; methods of proof; and axiom systems for classical and intuitionistic logic. Occasional.

PHI 3320 CAH-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 perception, and the relation of psychology to neurobiology. Occasional.

PHI 3323 CAH-PHIL 3(3,0)

PHI 3451 CAH-PHIL 3(3,0)
Philosophy of Psychology: PR: Junior standing or C.I. Philosophical and psychological perspectives on major psychological problems and phenomena. Occasional.

PHI 3601 CAH-PHIL 1(1,0)
Practical Wisdom: A radio course in applied ethics which focuses on the human good, dealing with the relationship between means and ends and how they define one another. Occasional.

PHI 3625 CAH-PHIL 3(3,0)
Virtual Ethics: PR: COP 3502C or DIG 2000 or C.I. Ethics of virtual worlds as contrasted to the physical world, the use of virtual realities, virtual environments, and modeling in philosophy, especially in ethics. Occasional.

PHI 3626 CAH-PHIL 3(3,0)
Advances in Ethics in Science and Technology: PR: COP 3502C or DIG 2000 or PHI 2647. Critical thinking applied to ethics in science and technology. Fall, Spring.

PHI 3629 CAH-PHIL 3(3,0)
Family Values: PR: PHI 2010, PHI 2630, PHI 3670, or WST 3015. Applied ethics examining legal, religious and other cultural prescriptions related to sexuality, marriage, reproduction, child-rearing and other forms of familial relations and caregiving. Even Spring.

PHI 3638 CAH-PHIL 3(3,0)

PHI 3640 CAH-PHIL 3(3,0)
Environmental Ethics: PR: Junior standing. Major contemporary environmental issues, including individual and holistic approaches, deep ecology, ecosocialism, and social eating. Occasional.

PHI 3648 CAH-PHIL 3(3,0)
Ethical Implications of the Human Genome Project: PR: BSC 2010 and either PHI 2010 or PHI 2630 or PHI 3670. Ethical issues surrounding the Human Genome Project, including genetic testing, genetic therapies, genetic enhancement, forensics, data banking, and genetic patenting. Occasional.

PHI 3670 CAH-PHIL 3(3,0)
Ethical Theory: PR: Junior standing and C.I. Major classical and contemporary topics in ethics, including value theory, utilitarianism, deontological, virtue-based and feminist approaches to ethics, rights, and justice; some examination of metaethical issues. Even Spring.

PHI 3672 CAH-PHIL 3(3,0)
Animal Ethics: PR: PHI 2010 or C.I. Key issues and debates in the area of animal ethics, including both theoretical and applied dimensions. Occasional.

PHI 3683 CAH-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. Occasional.

PHI 3684 CAH-PHIL 3(3,0)
Ways of Living: PR: HUM 2210 or HUM 2230 or C.I. Philosophies of life and the notion of "the good life." Occasional.

PHI 3700 CAH-PHIL 3(3,0)
Philosophy of Religion: PR: REL 2300 or PHI 3610. An examination of basic ideas, beliefs, attitudes, and functions of religion, with emphasis upon questions of conceptual meaning and cognitive justification. Odd Spring.

PHI 3720 CAH-PHIL 3(3,0)

PHI 3750 CAH-PHIL 3(3,0)

PHI 3790 CAH-PHIL 3(3,0)
African Philosophy: PR: Junior standing or C.I. Traditional and contemporary African philosophical thought with primary emphasis on post-colonial philosophy in sub-Saharan Africa. Occasional.

PHI 3800 CAH-PHIL 3(3,0)

PHI 3803 CAH-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. Occasional.

PHI 3805 CAH-PHIL 3(3,0)

PHI 3941 CAH-PHIL 3(1,3)
Philosophy Practicum: PR: C.I. Mentor at-risk grade schoolers and evaluate such work-related concepts as justice and fairness. Occasional.

PHI 4221 CAH-PHIL 3(3,0)
Philosophy of Language: PR: PHI 2010 or C.I. Nature of language and the relationships between language, reality, cognition, and culture. Spring.
PHI 4300 CAH-PHI L 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. Occasional.

PHI 4321 CAH-PHI L 3(3,0)  
Philosophies of Embodiment: Mind/Body/Self: PR: Junior standing and either PHI 2010, PHI 2012, PHI 2108, or C.I. Different ways of understanding relations between mind, body, and nature. Self-knowledge as articulated by western and non-western philosophies from ancient to contemporary times. Occasional.

PHI 4341 CAH-PHI L 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. Fall.

PHI 4400 CAH-PHI L 3(3,0)  
Philosophy of Science: An examination of the conceptual foundations and methodology of modern science. Occasional.

PHI 4420 CAH-PHI L 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. Occasional.

PHI 4500 CAH-PHI L 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. Occasional.

PHI 4633 CAH-PHI L 3(3,0)  
Ethics and Biological Science: PR: Completion of the GEP. An application of contemporary thinking to ethical issues arising from the biological sciences, including human and animal experimentation, genetic engineering, biodiversity. Occasional.

PHI 4633H CAH-PHI L 3(3,0)  
Honors Ethics and Biological Science: PR: BSC 2010C, a course in Philosophy, and consent of Honors. Contemporary thinking on ethical issues arising from the biological sciences, including human and animal experiments, genetic engineering, and biodiversity. Occasional.

PHI 4673 CAH-PHI L 3(3,0)  
Medical Ethics: PR: Senior standing or C.I. Ethics of clinical medicine and medical research. Spring.

PHI 4690 CAH-PHI L 3(3,0)  
Ethics in Nanoscience and Nanotechnology: PR: Completion of GEP or Junior standing. Ethical implications of rapid developments in nanoscience and nanotechnology. Odd Fall.

PHI 4804 CAH-PHI L 3(3,0)  
Critical Theory: PR: C.I. Critical theory and cultural studies emphasizing current trends as they apply to arts in diverse media. Even Fall.

PHI 4931 CAH-PHI L 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. Occasional.

PHI 4935 CAH-PHI L 3(3,0)  
Topics in Philosophy of Mind: PR: PHI 3320, PHI 3451 or PHI 3323 or C.I. Recent debates in philosophy of mind. Variable topics. Examples: mental representation, consciousness, concepts, free will. May be repeated for credit. Occasional.

PHI 4938 CAH-PHI L 3(3,0)  
Senior Research Seminar: PR: Senior standing and Philosophy major. Capstone course on research, developing effective oral and written communication skills. Occasional.

PHI 4951 CAH-PHI L 1(1,0)  
Portfolio: PR: PHI 3683 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. Occasional.

PHI 5225 CAH-PHI L 3(3,0)  
Philosophy of Language: PR: Admission to graduate certificate in Cognitive Sciences or C.I. Philosophy of the nature of language and relationships between language, reality, cognition, and culture. Occasional.

PHI 5325 CAH-PHI L 3(3,0)  
Topics in Philosophy of Mind: PR: Admission into graduate certificate program in Cognitive Sciences or C.I. Contemporary issues in philosophy of mind, including explanatory gap, and the problem of other minds. Occasional.

PHI 5327 CAH-PHI L 3(3,0)  
Topics in the Cognitive Sciences: PR: Admission to graduate certificate program in Cognitive Sciences or C.I. Theoretical issues and empirical studies in the cognitive sciences, including contemporary discussions of mind, brain, artificial intelligence, pathologies, behavioral capacities. Fall.

PHI 5328 CAH-PHI L 3(3,0)  
Philosophies of Embodiment: PR: Admission to graduate certificate in Cognitive Sciences or C.I. Relations among mind, body, and nature. Knowledge of self, world and others as articulated by Western philosophy, with special emphasis on embodied cognition. Occasional.

PHI 5329 CAH-PHI L 3(3,0)  
Philosophy of Neuroscience: PR: Admission to graduate certificate in Cognitive Sciences or C.I. Neurophilosophy, including discussion of promises and limitations of neuroscience for understanding of the mind. Occasional.

PHI 5340 CAH-PHI L 3(3,0)  

PHI 5627 CAH-PHI L 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. Fall.

PHI 5634 CAH-PHI L 3(3,0)  
Medical Ethics: PR: Graduate standing or C.I. Ethics for practitioners of clinical medicine, health care delivery and medical research. Fall.

PHI 5665 CAH-PHI L 3(3,0)  
Knowledge, Responsibility, and Society: PR: Senior undergraduate standing and at least one of the following: PHI 3670, PHI 3638, PHI 4300, PHI 4341, PHI 4400, PHI 4633, PHI 4931 or Graduate standing. A seminar exploring the relationship between ethics and epistemology with application to social concerns. Variable content. Occasional.

PHI 5667 CAH-PHI L 3(3,0)  
Ethics in Science and Technology: PR: Graduate standing or C.I. The relationship between ethics and the pursuit and application of human knowledge, emphasizing the responsibility of scientists to society. Occasional.

PHI 5687 CAH-PHI L 3(3,0)  
Ethics in Science and Technology: PR: Graduate standing or C.I. The relationship between ethics and the pursuit and application of human knowledge, emphasizing the responsibility of scientists to society. Occasional.

PHM 3020 CAH-PHI L 3(3,0)  
Philosophy of Love: PR: Junior standing and PHI 2010, or C.I. A critical investigation of the meaning and significance of various kinds of love from a variety of philosophical perspectives. Spring.

PHM 3100 CAH-PHI L 3(3,0)  
Freedom and Justice: Philosophical analysis and evaluation of selected issues arising from the interaction of the individual, society, and the state; includes topics such as freedom, equality, and justice. Occasional.

PHM 3123 CAH-PHI L 3(3,0)  

PHM 3401 CAH-PHI L 3(3,0)  
Philosophy of Law: PR: PHI 2010, PHI 2630, PHI 3670, or POS 2041. Study of the nature of, and justifications for, law and punishment. Examination of the concepts of legal personhood, rights and responsibilities. Spring.

PHM 4031 CAH-PHI L 3(3,0)  
Environmental Philosophy: PR: PHI 3640, PHI 2630, or C.I. Major contemporary positions in environmental philosophy, including deep ecology, ecofeminism, and social ecology. Occasional.

PHM 5035 CAH-PHI L 3(3,0)  
Environmental Philosophy: PR: PHI 3640, PHI 2630 graduate status or senior standing, or C.I. This course will provide an in-depth examination of the major contemporary positions in environmental philosophy, including deep ecology, ecofeminism, and social ecology. Occasional.

PHM 3781 CAH-PHI L 3(3,0)  

PHM 3783 CAH-PHI L 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, Deleuze, Derrida, Rorty, and others. Occasional.

PHM 3786 CAH-PHI L 3(3,0)  
Existentialism: Study of existentialist analysis and criticism of the human situation as found in the writings of such philosophers as Kierkegaard, Nietzsche, Heidegger, Sartre, and Camus. Odd Fall.

PHM 4782 CAH-PHI L 3(3,0)  

PHM 3069 HPA-HP 1(1,0)  

PHM 3069L HPA-HP 2(0,4)  
Physical Assessment Lab: PR: PHI 3069. Lab course emphasizing the examinations required to perform an evaluation of a physical therapy patient. Occasional.

PHM 3112 HPA-HP 2(0,4)  
PHT 3112L HPA-HP 3(0,6) Gross Anatomy/Neuroscience I Lab: CR: PHT 3112. Human cadaver dissection of the back, spinal cord, cranial nerves, and upper and lower extremities. Occasional.

PHT 3113 HPA-HP 2(2,0) Gross Anatomy/Neuroscience II: PR: PHT 3112; PHT 3113L; CR: PHT 3113L. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs. Occasional.

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. Occasional.

PHT 3122 HPA-HP 3(3,0) Clinical Kinesiology: CR: PHT 3122L. Mechanical aspects of human movement, including joint mechanics of the upper and lower extremity, the vertebral column, and tissue mechanics of relevant human tissues. Coordinated with cadaver dissection. Occasional.

PHT 3122L HPA-HP 3(0,6) Clinical Kinesiology Lab: CR: PHT 3122. Lab course investigating the mechanical aspects of human movement. Occasional.

PHT 3155 HPA-HP 2(2,0) Physiology of Therapeutic Exercise: PR: PHT 3259; CR: PHT 3155L. Exercise physiology investigating the physiological responses and adaptations to human movement including cardiovascular and pulmonary systems. Occasional.

PHT 3155L HPA-HP 2(0,4) Physiology of Therapeutic Exercise Lab: CR: PHT 3155. Lab course emphasizing the clinical application of exercise physiology. Occasional.


PHT 3259L HPA-HP 1(0,2) Patient Care Skills Lab: CR: PHT 3259. Lab course covering basic skills of patient care; transfers, mobility skills, draping, gait training. Occasional.


PHT 4222L HPA-HP 1(0,2) Therapeutic Exercise I Lab: CR: PHT 4222. Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction. Occasional.

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 applications to the rehabilitation process. Occasional.

PHT 4230L HPA-HP 1(0,2) Therapeutic Exercise II Lab: CR: PHT 4230. Lab course emphasizing use of various therapeutic exercise modalities. Occasional.

PHT 4307 HPA-HP 3(3,0) Pathology/Pharmacology: PR: PHT 3113. Organized seminars on the pathophysiology and clinical manifestations of various medical conditions as they relate to medical management in physical therapy practice. Occasional.

PHT 4308 HPA-HP 2(2,0) Medical Science and Pharmacology II: CR: PHT 3122. The impact on movement and posture of various orthopedic and neurologic disorders; drugs used in their management. Relates neuropathology and orthopedic pathology to the study of movement. Occasional.


PHT 5003 HPA-HP 2(2,0) Foundations of Physical Therapy I: PR: Admission to the PT program. Introduction to the profession of physical therapy. Occasional.


PHT 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. Occasional.

PHT 5115L HPA-HP 2(0,4) Gross Anatomy/Neuroscience I Lab: CR: PHT 5115. Lab course emphasizing human cadaver dissection of the back, spinal cord, cranial nerves, and upper and lower extremities. Occasional. M&S fee: $45.00

PHT 5118 HPA-HP 2(2,0) Gross Anatomy/Neuroscience II: PR: PHT 3113. In-depth study of human morphology emphasizing the brain, the cervical spine, pelvis, and the internal organs. Fall.

PHT 5118L HPA-HP 2(0,4) Gross Anatomy/Neuroscience II Lab: CR: PHT 5118. Lab course emphasizing human cadaver dissection of the brain, cervical spine, pelvis, and internal organs. Fall. M&S fee: $45.00

PHT 5125 HPA-HP 2(2,0) Clinical Kinesiology II: 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. Occasional. M&S fee: $15.00

PHT 5125L HPA-HP 2(0,2) Clinical Kinesiology II 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. Occasional. M&S fee: $15.00

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. Occasional.

PHT 5156L HPA-HP 2(0,4) Physiology of Therapeutic Exercise Lab: CR: PHT 5156. Lab course emphasizing the clinical application of exercise physiology. Occasional. M&S fee: $15.00

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 rationale and selection of interventions for inflammation, pain, edema, and weakness. Spring. M&S fee: $15.00

PHT 5218L HPA-HP 1(0,2) Theories and Procedures I Lab: CR: CR Theories and Procedures I. Lab course on the clinical applications of heat, light,cold, water, sound, and massage. Spring. M&S fee: $15.00

PHT 5240 HPA-HP 1(1,0) Physical Assessment: PR: Physical Assessment Lab. Extensive theory and practice in the examination of the patient. Incorporate a systems approach, utilizing screening, and patient problem solving. Fall.

PHT 5240L HPA-HP 2(0,4) Physical Assessment Lab: CR: PR Physical Assessment Lab. Lab course emphasizing the examinations required to perform an evaluation of physical therapy patient. Fall. M&S fee: $25.00


PHT 5241L HPA-HP 2(0,4) Therapeutic Exercises I Lab: PR: Therapeutic Exercise I. Lab course emphasizing therapeutic exercise skills for the treatment of patients with musculoskeletal dysfunction. Spring. M&S fee: $15.00

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, draping, gait training. Fall.

PHT 5260L HPA-HP 1(0,2) Patient Care Skills Lab: CR: Patient Care Skills Lab. Skills of patient care, transfers, mobility skills. Fall. M&S fee: $25.00

PHT 5306 HPA-HP 2(2,0) Pathology/Pharmacology: PR: Admission to PT program. Organized seminars on the pathophysiology and clinical manifestations of various medical conditions as they related to medical management in physical therapy practice. Occasional.


PHT 5718L HPA-HP 1(0,2) Neurological Physical Therapy Lab: CR: CR Neurological Physical Therapy Lab. Course emphasizing the clinical application of selected neuromotor theories. Occasional. M&S fee: $15.00

PHT 5722 C HPA-HP 2(1,2) Physical Therapy Integration I: PR: Admission to PT program. Problem solving approach to selected dysfunctions, including burns and open wounds, and selected diagnostic procedures and therapy interventions. Occasional. M&S fee: $15.00
Particle dynamics, rigid bodies, Lagrangian formulation of motion. May be repeated for credit.

Fundamental physics principles behind recent developments in modern physics, astronomy, magnetism, optics, x-rays, radioactivity. As PHY 3101 with honors-level content.

Physics for Engineers and Scientists III: PHY 3101 COS-PHYS 3(3,0)
- Mechanics: Particle dynamics, rigid bodies, Lagrangian formulation of mechanics, Hamilton’s equations. Fall.
- Thermal and Statistical Physics: PR: PHY 3101 or PHY 3101H or C.I. Thermodynamics, kinetic theory, elements of statistical mechanics. Fall.
- Intermediate Physics Laboratory: PR: PHY 3101 or C.I. Laboratory work in basic measurements of physical constants; experiments in electronics, modern physics, nuclear physics, optics, and solid state physics. May be repeated for credit.
- Physics for Teachers: PR: Graduate status or senior standing or C.I. Circuits, multimeters, oscilloscopes, circuit elements. Occasional.

Electricity for Teachers: PR: Graduate status or senior standing or C.I. Geometrical and physical optics, spectrometers and lasers. Occasional.

Modern X-Ray Science: PR: Graduate status or senior standing or C.I. Theoretical fundamentals and physical implementations of x-rays, etc., with a review of basic properties of x-rays. Occasional.

Wave Motion for Teachers: PR: Graduate status or senior standing or C.I. Water waves, waves on strings, sound and vibrations. Occasional.


Quantum Mechanics: PR: PHY 4605, and graduate status or senior standing or C.I. Basic postulates of quantum mechanics, operators, eigenvalues, parity, potential wells, harmonic oscillator, time dependent and time independent Schrödinger equation, matrix formulation, and time independent perturbation theory. Fall.

INTRODUCTION TO SOFT CONDENSED MATTER PHYSICS

PHY 5432 COS-PHYS 3(3,0)

PLASMA PHYSICS

PHY 5437 COS-PHYS 3(3,0)
Plasma Physics: PR: PHY 4324, and graduate status or C.I. Introduction to theory and experimental basis of both weakly and highly ionized plasmas. Instabilities, plasma waves, nonlinear effects, controlled thermonuclear fusion. Occasional.

PHYSICAL PROPERTIES OF NANOSCAE SURFACES

PHY 5505 COS-PHYS 3(3,0)

ADVANCED TRIAL ADVOCACY

PLA 4423 HPA-CJ/LS 3(3,0)
Advanced Trial Advocacy: PR: PLA 4910 or C.I. Litigation and advocacy at an advanced level; students must handle trial from beginning to end. May be repeated for credit. Occasional.

EVIDENCE

PLA 4423 HPA-CJ/LS 3(3,0)
Evidence: PR: PLA 3013 and 3201 or C.I. An examination of statutes and cases that define rules of evidence for trial courts. Primary emphasis is on the Florida Evidence Code. Fall, Spring.

EMPLOYMENT DISCRIMINATION LAW

PLA 4472 HPA-CJ/LS 3(3,0)
Employment Discrimination Law: PR: C.I. Course will acquaint the student with the substantive law and procedures associated with the rights and obligations of debtors and creditors. Occasional.

CIVIL PRACTICE AND PROCEDURE

PLA 4460 HPA-CJ/LS 3(3,0)
Bankruptcy Law: PR: C.I. Course will acquaint the student with the substantive law and procedures associated with the rights and obligations of debtors and creditors. Occasional.

PLA 4910 HPA-CJ/LS 3(3,0)

TORTS

PLA 3610 HPA-CJ/LS 3(3,0)
Torts: PR: PLA 3013, 3201 or C.I. Focus will be on The Burnett Honors College. Copyright, trademark, patent issues in cyberspace; online dispute resolution, privacy, and free speech topics. With Honors Consent. Occasional.

PLA 4583H HPA-CJ/LS 3(3,0)
Honors Cyber Law: PR: Honors GEP completion or consent of The Burnett Honors College. Copyright, trademark, patent issues in cyberspace; online dispute resolution, privacy, and free speech topics. With Honors Consent. Occasional.

ADVANCED TRIAL ADVOCACY

PLA 4602 HPA-CJ/LS 3(3,0)
Estate Administration: PR: PLA 4601. Study of the laws and procedures applicable to administration of estates. Occasional.
UCF Courses and Descriptions

POS 3949 COS-POLS 0(0,8) Cooperative Education in Political Science: PR: Departmental permission required before registering. Cooperative education experience in political science. Graded S/U. May be repeated for credit. Occasional.

POS 4074 COS-POLS 3(3,0) Latino Politics: PR: POS 2041 or C.I. Political characteristics of Latino community in the United States and its impact on U.S. national and international politics and policies. Odd Fall.

POS 4142 COS-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. Occasional.

POS 4204 COS-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. Occasional.

POS 4206 COS-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 communications, leadership, and personality influences on politics. Occasional.

POS 4246 COS-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 contests. Occasional.

POS 4284 COS-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. Fall, Odd Spring.

POS 4412 COS-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. Occasional.

POS 4603 COS-POLS 3(3,0) American Constitutional Law: PR: POS 2041 or C.I. Development of American federalism and national power, commerce clause, and nationalization of the economy. Fall.

POS 4604 COS-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. Spring.

POS 4622 COS-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. Occasional.

POS 4742 COS-POLS 3(3,0) Geographic Information Systems for the Political Scientist: PR: POS 2041. Theoretical assumptions, analytical possibilities, and application of Geographic Information Systems (GIS) for political science research. Occasional.

POS 4941L COS-POLS 3(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. Occasional.

POT 3204 COS-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. Odd Fall.

POT 3302 COS-POLS 3(3,0) Modern Political Ideologies: A study of modern ideologies since the French Revolution including liberalism, conservatism, capitalism, nationalism and fascism and anarcho-socialism. Spring.

POT 4003 COS-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. Occasional.

POT 4025 COS-POLS 3(3,0) Ancient, Medieval and Early Modern Political Philosophy: Study of the development of political and social ideas in Western thought from early Greece through the 17th century. Occasional.

POT 4045 COS-POLS 3(3,0) Modern Political Philosophy: Study of the development of political and social ideas from the 18th century to the present. May be taken independently of POT 4045 (Ancient, Medieval and Early Modern Political Philosophy). Occasional.

POT 4066 COS-POLS 3(3,0) Contemporary Political Theory: PR: Junior standing or C.I. Study of the contemporary debate about the status of rights, utilitarianism, and liberalism, and communitarian Marxism, libertarianism, and feminist critiques of liberalism. Occasional.

POT 4109 COS-POLS 3(3,0) Politics and Literature: PR: Junior standing. An examination of politics and the political process through the medium of literature. Occasional.

POT 4305 COS-POLS 3(3,0) Utopia/Dystopia: PR: POS 2041 or C.I. Theoretical assumptions, analytical frameworks, and methods of contemporary poetry and fiction. Fall, Odd Fall.

POT 4314 COS-POLS 3(3,0) Contemporary Democratic Theory: PR: POS 2041 or C.I. Study of democratic theories, emphasizing liberal democracy and its critics, elitist theories, participatory democracy, citizen participation, and relevance of empirical research to democratic theory. Occasional.

POT 4331 COS-POLS 3(3,0) Utopia/Dystopia: PR: POS 2041 or C.I. Examines political issues, such as justice, economic distribution and social organization by exploring both classic and contemporary utopias and dystopias. Occasional.


POT 4632 COS-POLS 3(3,0) Religion and Politics: PR: Junior standing. Institutional and individual relationship of religion and politics including globalization, fundamentalism, secularization, American exceptionalism, political behavior, and the religious origins of current secular sentiments. Occasional.

PPE 3003 COS-PSYCH 3(3,0) Personality Theory: PR: PSY 2012. A survey of theory and research on the development of personality characteristics. Fall, Spring.

PPE 3003H COS-PSYCH 3(3,0) Honors Personality Theory: PR: PSY 2012 and Consent of Burnett Honors College. Theory and research on the development of personality characteristics. With Honors content. Occasional.

PPE 5005 COS-PSYCH 3(3,0) Personality Theories: PR: Graduate status or senior standing or C.I. Critical theoretical models of personality development with applications to counseling, psychotherapy and psychological assessment. Occasional.

PSB 3002 COS-PSYCH 3(3,0) Physiological Psychology: PR: PSY 3042. The physiological basis of behavior, emphasizing the relationship between the nervous system and behavior. Fall, Spring.

PSB 3341 COS-PSYCH 3(3,0) Psychobiological Aspects of Drugs: PR: PSY 2012. 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. Spring.


PSB 5005 COS-PSYCH 3(3,0) Physiological Psychology: PR: PSY 2012 and graduate status or senior standing or C.I. An advanced survey of the physiological basis of behavior, emphasizing the relationship between the nervous system and behavior. Occasional.

PSC 1121 COS-PHYS 3(3,0) Physical Science: PR: High school algebra or MAC 1105. Fundamental laws of mechanics, heat, waves, electricity, magnetism; chemical processes and equations, properties of gases, liquids, solids, solutions. Fall, Spring. M&S fee: $2.20.

PSC 1121H COS-PHYS 3(3,0) Honors Physical Science: PR: Permission ofHonors and MAC 1105 or MGF 1106. PSC 1121 with Honors-level content. Occasional.

PSC 1121L COS-PHYS 1(0,2) Physical Science Lab: CR: PSC 1121. Experiments to apply the scientific method to observation and analysis in mechanics, heat, light, electricity and magnetism, chemical and physical transformations. Fall, Spring. M&S fee: $10.00.

PSY 2012 COS-PSYCH 3(3,0) General Psychology: A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity. Fall, Spring.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>PSY 2012H</td>
<td>COS-PSCYH</td>
<td>3(3,0)</td>
<td>Honors General Psychology: PR: Permission of Honors. A survey of the basic principles, theories, and methods of contemporary psychology, including the study of human diversity. Honors-level content. Fall, Spring.</td>
</tr>
<tr>
<td>PSY 2023</td>
<td>COS-PSCYH</td>
<td>1(1,0)</td>
<td>Careers in Psychology: PR: PSY 2012. An examination of various career opportunities in Psychology, including educational requirements, and related professional issues. Graded S/U. Occasional.</td>
</tr>
<tr>
<td>PSY 3028</td>
<td>COS-PSCYH</td>
<td>3(3,0)</td>
<td>Psychology of Career Development: PR: PSY 2012 or C.I. Review of career development theories and current psychological literature on career decision-making. Examination of career development in psychology including educational entry requirements and related issues. Occasional.</td>
</tr>
<tr>
<td>PSY 3213C</td>
<td>COS-PSCYH</td>
<td>5(3,2)</td>
<td>Research Methods in Psychology: PR: PSY 2012, PSY 3204, and either STA 2014C or STA 2023. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format. Fall, Spring. M&amp;S fee: $20.00.</td>
</tr>
<tr>
<td>PSY 3213H</td>
<td>COS-PSCYH</td>
<td>4(3,2)</td>
<td>Honors Research Methods in Psychology: PR: Permission of Honors and PSY 2012 and STA 2014C or STA 2023. Investigation of experimental designs and research methods utilized in psychology. Laboratory outcomes will be statistically analyzed and reported in APA format. Honors content. Occasional.</td>
</tr>
<tr>
<td>PSY 3624</td>
<td>COS-PSCYH</td>
<td>3(3,0)</td>
<td>Parapsychology: PR: PSY 2012. An examination of the history and development of research on paranormal phenomena, with special emphasis on recent developments in extrasensory perception and psychokinesis. Occasional.</td>
</tr>
<tr>
<td>PSY 3951</td>
<td>COS-PSCYH</td>
<td>1-9(3-30)</td>
<td>Undergraduate Field Work: PR: Senior standing and C.I. Placement in a community agency for supervised experience in applications of psychology to community problems. May be repeated for credit. Graded S/U. Fall, Spring.</td>
</tr>
<tr>
<td>PSY 4025</td>
<td>COS-PSCYH</td>
<td>3(3,0)</td>
<td>The Psychology of Art: PR: PSY 2012, and ARH 2050 or ARH 2051. Discussion of the psychological perspectives on art to gain a greater understanding and enhanced appreciation for the process and products of creativity. Occasional.</td>
</tr>
<tr>
<td>PSY 4270L</td>
<td>COS-PSCYH</td>
<td>3(0,3)</td>
<td>Advanced Research Methods Statistical Lab: PR: PSY 3213C and PR: PSY 4215C. Data analysis and research reporting procedures. Experience in analyzing and explaining the methods and results used in research reports. Occasional. M&amp;S fee: $15.00.</td>
</tr>
<tr>
<td>PSY 4305C</td>
<td>COS-PSCYH</td>
<td>3(1,4)</td>
<td>Advanced Psychological Measurement: PR: or CR: PSY 3302. Application of the theory underlying psychological test and measurement procedures, including reliability, validity, and item analysis. Occasional.</td>
</tr>
<tr>
<td>PSY 4604</td>
<td>COS-PSCYH</td>
<td>3(3,0)</td>
<td>History and Systems of Psychology: PR: EXP 3404 and PPE 3003. Development of the intellectual framework underlying psychology, with emphasis on historical and theoretical positions. Occasional.</td>
</tr>
<tr>
<td>PSY 5605</td>
<td>COS-PSCYH</td>
<td>3(3,0)</td>
<td>History and Systems of Psychology: PR: Acceptance to Clinical Psychology PhD program or C.I. An examination of the intellectual framework underlying psychology, with emphasis on historical and theoretical positions. Occasional.</td>
</tr>
<tr>
<td>PUP 3014</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Comparative Public Policy: PR: POS 2041 or CPO 3100 or C.I. Areas of public policy such as immigration, education, law, trade, taxation, and fiscal policy in selected countries. Occasional.</td>
</tr>
<tr>
<td>PUP 3203</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Environmental Politics: PR: POS 2041 or C.I. An examination of politics and policy-making concerning issues of conservation, pollution, and development of land, air, and water resources. Odd Fall.</td>
</tr>
<tr>
<td>PUP 3314</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Minorities in American Politics: Historical and contemporary role of minority groups in the American political process, including an examination of their electoral success and relevant legislative, executive, and judicial policies. Occasional.</td>
</tr>
<tr>
<td>PUP 3325</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Women and Political Behavior: PR: POS 2041 or C.I. Women's role in the political process, emphasizing women in the governmental and policy process. Odd Fall.</td>
</tr>
<tr>
<td>PUP 3508</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Space Studies: PR: Junior standing or C.I. Multidisciplinary overview of space studies, providing familiarity with some technical aspects as well as the relationship between technical and public policy considerations. Occasional.</td>
</tr>
<tr>
<td>PUP 4003</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>American Public Policy: PR: POS 2041 or C.I. Policy formulation, implementation and evaluation, with a focus on contemporary American policies, including the malapportionment of societal power and social conflict. Occasional.</td>
</tr>
<tr>
<td>PUP 4204</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Sustainability: PR: POS 2041 or C.I. Environmental policies through the lens of “sustainability.” Attention devoted to the relationships of culture, economics, and ecology. Odd Fall.</td>
</tr>
<tr>
<td>PUP 4209</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Urban Environmental Policy: PR: POS 2041. Public policy, ecology, and the urban political landscape explored by tracing their development and prospects for sustainable cities. Occasional.</td>
</tr>
<tr>
<td>PUP 4323</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Women and Public Policy: PR: POS 2041 or C.I. Public policies and processes that achieve a disparate impact on women and women's lives in the United States. Occasional.</td>
</tr>
<tr>
<td>PUP 4404</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Education and Politics: PR: Junior standing or C.I. Western education and the connection between citizenship and education, education funding, and the politics of education reform. Occasional.</td>
</tr>
<tr>
<td>PUP 4503</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Government and Science: PR: C.I. Examination of interface between science and government. Focus is on governmental support for science, social accountability, and the role of the scientist-policy maker in comparative context. Occasional.</td>
</tr>
<tr>
<td>PUP 4510</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Space Policy: An examination of the politics and policymaking involved with the US space program in the context of domestic demands and other international space programs. Even Fall.</td>
</tr>
<tr>
<td>PUP 4602</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Politics of Health: PR: C.I. Analysis of public health policies. Primary focus upon political processes, policymakers, and interest group interventions, including consumers and policy outcomes. Comparative health policies. Occasional.</td>
</tr>
<tr>
<td>PUP 4744</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Government and Business: PR: Junior standing or C.I. Analysis of public policies regarding business. Study includes various levels of government including international organizations. Occasional.</td>
</tr>
<tr>
<td>PUP 4931</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Topics in Public Policy: Intensive analysis of a current policy problem. Sample topics include education, growth management, housing, affirmative action, welfare, and transportation. May be used in the degree program a maximum of 2 times. Occasional.</td>
</tr>
<tr>
<td>PUP 4931</td>
<td>COS-POLS</td>
<td>3(3,0)</td>
<td>Topics in Public Policy: Intensive analysis of a current policy problem. Sample topics include education, growth management, housing, affirmative action, welfare, and transportation. May be used in the degree program a maximum of 2 times. Occasional.</td>
</tr>
<tr>
<td>PUR 3100</td>
<td>COS-COMM</td>
<td>3(2,1)</td>
<td>Writing for Public Relations: PR: AD/PR Majors only. Development of skills in writing for public relations. Fall, Spring.</td>
</tr>
<tr>
<td>PUR 4000</td>
<td>COS-COMM</td>
<td>3(3,0)</td>
<td>Public Relations: PR: C.I. Public relations and communications. Focus is on the role of public relations as a strategic management function. Fall, Spring.</td>
</tr>
<tr>
<td>PUR 4110C</td>
<td>COS-COMM</td>
<td>3(1,3)</td>
<td>Public Relations: PR: C.I. An examination of the role of public relations in contemporary public relations practice. Fall, Spring.</td>
</tr>
<tr>
<td>PUR 4203</td>
<td>COS-COMM</td>
<td>3(3,0)</td>
<td>PR/Advertising Ethics and Law: PR: Admitted to the Advertising/Public Relations (B.A.) and ADV 3008. Legal precedents applicable to advertising and public relations as well as ethical considerations for both. Fall, Spring.</td>
</tr>
<tr>
<td>PUR 4801</td>
<td>COS-COMM</td>
<td>3(3,0)</td>
<td>Public Relations Case Studies: PR: AD/PR majors only and PUR 4000 or C.I. Discussion and analysis of public relations cases highlighting the application of PR theory to advance organizational goals. Fall, Spring.</td>
</tr>
</tbody>
</table>
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Units</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RAT 3241</strong></td>
<td>HPA-HP</td>
<td>3(3,0)</td>
<td>Clinical Radiobiology: Application of the principles and theories of radiobiology to the clinical practice of radiation therapy. Occasional.</td>
</tr>
<tr>
<td><strong>RAT 3242</strong></td>
<td>HPA-HP</td>
<td>2(2,0)</td>
<td>Oncologic Pathology: PR: Acceptance to program. Study of neoplastic diseases, including causative factors, characterics, histologic grading, staging and treatment. Occasional.</td>
</tr>
<tr>
<td><strong>RAT 3614</strong></td>
<td>HPA-HP</td>
<td>2(2,0)</td>
<td>Radiation Therapy Physics I: PR: Acceptance to program. Study of radiation production, properties, interactions, measurement, and protection. Occasional.</td>
</tr>
<tr>
<td><strong>RAT 4247</strong></td>
<td>HPA-HP</td>
<td>3(3,0)</td>
<td>Radiation Oncology I: Methods of radiation therapy treatment of malignant conditions of the skin, oral cavity, pharynx, sinuses, thyroid, digestive and respiratory systems. Occasional.</td>
</tr>
<tr>
<td><strong>RAT 4248</strong></td>
<td>HPA-HP</td>
<td>3(3,0)</td>
<td>Radiation Oncology II: Methods of treatment of malignant conditions of the nervous system, eye, reproductive system, urinary system, connective tissue, and lympho-vascular system. Occasional.</td>
</tr>
<tr>
<td><strong>RAT 4814L</strong></td>
<td>HPA-HP</td>
<td>6(0,24)</td>
<td>Clinical Education II: PR: RAT 4804L. Supervised clinical practice in patient care, education, simulation, treatment planning and delivery and utilization of treatment units. Occasional.</td>
</tr>
<tr>
<td><strong>RED 3012</strong></td>
<td>ED-TLP</td>
<td>3(3,0)</td>
<td>Basic Foundations of Reading: PR: Junior standing or C.I. Principles, procedures, and current practices for teaching reading. Specific techniques and materials for word identification, content reading and comprehension. Fall, Spring.</td>
</tr>
<tr>
<td><strong>RED 3310</strong></td>
<td>ED-ES</td>
<td>3(3,0)</td>
<td>Early Reading, Writing and Language Arts: PR: Admission to the Early Childhood Education Program. Emergent reading/writing processes during preschool, kindergarten, and first grade; methods for implementing integrated language arts curriculum; guiding developmental early childhood language experiences. Occasional.</td>
</tr>
<tr>
<td><strong>RED 4043</strong></td>
<td>ED-TLP</td>
<td>3(3,0)</td>
<td>Content Reading in Kindergarten through Grade 12: PR: Admission to the teacher education program and junior or senior class standing. Content literacy in the K-12 school curriculum: principles, strategies, assessment, and promoting practices. Fall, Spring.</td>
</tr>
<tr>
<td><strong>RED 4311</strong></td>
<td>ED-CFCS</td>
<td>3(3,0)</td>
<td>Primary Reading, Writing, and Language Arts Curriculum and Assessment: PR: RED 3012 and RED 3310; CR: ECC 3340. Methodologies for teaching and assessing young children in reading, writing, and language arts in the elementary grades. Fall.</td>
</tr>
<tr>
<td><strong>RED 4519</strong></td>
<td>ED-TLP</td>
<td>3(3,1)</td>
<td>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 optimal reading growth. Concurrent school experiences required. Fall, Spring.</td>
</tr>
<tr>
<td><strong>RED 5147</strong></td>
<td>ED-TLP</td>
<td>3(3,0)</td>
<td>Developmental Reading: PR: EDG 4223. Procedures, programs, organization, and current practices in the elementary reading program. Materials and methods of instruction. Fall, Spring.</td>
</tr>
<tr>
<td><strong>RED 5517</strong></td>
<td>ED-TLP</td>
<td>3(3,1)</td>
<td>Classroom Diagnosis and Development of Reading Proficiencies: PR: RED 5147 or equivalent. Classroom diagnosis and corrective teaching in reading; instructional materials. Case study required. Even Fall, Spring.</td>
</tr>
<tr>
<td><strong>REE 3043</strong></td>
<td>BA-FIN</td>
<td>3(3,0)</td>
<td>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. Fall, Spring.</td>
</tr>
<tr>
<td><strong>REE 3433</strong></td>
<td>BA-FIN</td>
<td>3(3,0)</td>
<td>Real Estate Law: PR: Junior standing. An analysis of real estate law with emphasis on Florida statutes and case law. Fall, Spring.</td>
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<tr>
<td><strong>REE 4203</strong></td>
<td>BA-FIN</td>
<td>3(3,0)</td>
<td>Commercial Real Estate Finance: PR: FIN 3403; open to majors or minors which require this course. Focus on the practice of commercial real estate finance; emphasis on lender and borrower decision making and secondary markets. Occasional.</td>
</tr>
<tr>
<td><strong>REE 4204</strong></td>
<td>BA-FIN</td>
<td>3(3,0)</td>
<td>Residential Real Estate Finance: PR: FIN 3403; open to majors or minors which require this course. Study of the practice of residential real estate finance; emphasis on lender and borrower decision making and secondary markets. Fall, Spring.</td>
</tr>
<tr>
<td><strong>REE 4303</strong></td>
<td>BA-FIN</td>
<td>3(3,0)</td>
<td>Real Estate Investment Analysis: PR: FIN 3403. Focus on real estate decision-making in the private sector utilizing tools of financial and economic analysis. Fall, Spring.</td>
</tr>
<tr>
<td><strong>REE 4732</strong></td>
<td>BA-FIN</td>
<td>3(3,0)</td>
<td>Real Estate Development: PR: FIN 3403. The real estate development process. Focus on the development of a project from the inception of a project through to lease-up, long-term financing, and final sale to the investment community. Fall.</td>
</tr>
<tr>
<td><strong>REL 2300</strong></td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td>World Religions: Basic features and historical background of Confucianism, Taoism, Hinduism, Buddhism, Judaism, Christianity, and Islam. Fall, Spring.</td>
</tr>
<tr>
<td><strong>REL 3111</strong></td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td>Religion and Philosophy Through Film: PR: ENC 1102 and either PH 2510 or REL 2300 or FIL 1000. Religious and philosophical themes encountered in contemporary film. It unites religion, philosophy and film by means of a critique of cultural productions of meaning, value and purpose. Occasional.</td>
</tr>
<tr>
<td><strong>REL 3115</strong></td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td>Religion, Spirituality, and Popular Music: PR: HUM 2230 or REL 2300. Contemporary spiritual sensibilities encountered at the intersection of religion, philosophy, and popular music. Odd Fall.</td>
</tr>
<tr>
<td><strong>REL 3131</strong></td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td>Religion in America: PR: REL 2300. Religious traditions in America, their relationship to politics, popular culture, media, and society. Even Spring.</td>
</tr>
<tr>
<td><strong>REL 3340</strong></td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td>Buddhist Thought: PR: HUM 2230 or REL 2300 or C.I. Teachings of Buddhism and their contemporary applications. Odd Fall, Spring.</td>
</tr>
<tr>
<td><strong>REL 3432</strong></td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td>Roots of Western Mysticism: PR: HUM 3431, HUM 3435, HUM 3525, HUM 3553, HUM 4200, HUM 4554, PHH 3100, or PHH 2200. Ancient, medieval, and early modern European mysticism, and its influences on religious, philosophical, artistic, and scientific thought in the West. Even Fall, Odd Spring.</td>
</tr>
<tr>
<td><strong>REL 4110</strong></td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td>Religion and the Arts: PR: At least one of the following: HUM 2210, HUM 2230, ARH 2050, ARH 2051, or REL 2300. Art, music, dance, and ritual practices in religious traditions, with an emphasis on contemporary society. Occasional.</td>
</tr>
<tr>
<td><strong>REL 4180</strong></td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td>Religion and Medicine: PR: Junior standing and REL 2300 or C.I. A comparative study of the approaches toward medicine and healing in different religious traditions, both in the US and abroad. Occasional.</td>
</tr>
<tr>
<td><strong>REL 4901</strong></td>
<td>CAH-PHIL</td>
<td>1(1,0)</td>
<td>Portfolio: PR: Final semester as Humanities/Religious Studies track major. Presentation of a representative sampling of a student's best undergraduate work, with appropriate revision, including a cover narrative indicating development of knowledge and skills in the subject area. Graded S/U. Occasional.</td>
</tr>
<tr>
<td><strong>REL 4910</strong></td>
<td>CAH-PHIL</td>
<td>3(3,0)</td>
<td>Senior Research Seminar: PR: Senior standing and Religion Studies track major. Capstone course on research, developing effective oral and written communication skills. Occasional.</td>
</tr>
<tr>
<td><strong>RET 3026C</strong></td>
<td>HPA-HP</td>
<td>4(3,3)</td>
<td>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. Fall. M&amp;S fee: $45.00</td>
</tr>
<tr>
<td><strong>RET 3174</strong></td>
<td>HPA-HP</td>
<td>3(3,0)</td>
<td>Pediatric Respiratory Care: PR: RET 3026C. The study of childhood respiratory diseases, congenital problems, infections, metabolic disorders, and AIDS. Spring.</td>
</tr>
</tbody>
</table>
UCF Courses and Descriptions

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. Occasional.

RET 3483C HPA-HP 3(2,1)
Respiratory Clinical Assessment: PR: RET 3026C or C.I. Demonstration of physical assessment techniques, critical thinking, chest radiology and other laboratory techniques, polysomnography and clinical documentation. Includes internet work. Spring.

RET 3484C HPA-HP 4(3,3)
Cardiopulmonary Physiology: PR: PCB 3703C. Normal ventilation, lung mechanics, pulmonary circulation, diffusion, and blood gasses, with an emphasis toward diagnostic cardiology. Fall. M&S fee: $18.00

RET 3874 HPA-HP 5(1,16)

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. Fall.

RET 4034 HPA-HP 3(3,0)

RET 4244 HPA-HP 3(3,0)

RET 4284 HPA-HP 3(3,0)
Cardiopulmonary Diagnostics I: PR: RET 4244. Non-invasive cardiac diagnostics, including echocardiography, nuclear cardiology, and stress testing. Fall.

RET 4285 HPA-HP 3(3,0)
Cardiopulmonary Diagnostics II: PR: RET 4244 and RET 4284. Invasive cardiac diagnostic and therapeutic measures, including cardiac catheterization, PTCA, stress test use, and heart surgery. Spring.

RET 4414C HPA-HP 4(3,3)
Pulmonary Function Studies: PR: RET 3263C. Detailed procedures and tests to provide information for diagnosis of pulmonary disease. Lecture-laboratory. Occasional. M&S fee: $14.00

RET 4441 HPA-HP 4(3,3)

RET 4443 HPA-HP 4(3,3)
Advanced Cardiac Ultrason: PR: RET 4248 or C.I. Study of advanced applications of ultrasound in the diagnosis of cardiac abnormalities. Two-dimensional echo, conventional doppler, and color doppler covered. Occasional.

RET 4503 HPA-HP 3(3,0)
Chest Medicine: PR: RET 3026C. Disease states treated medicinally in conjunction with one or more modalities of respiratory therapy. Spring.

RET 4536 HPA-HP 3(3,0)
Cardiopulmonary Rehabilitation: PR: RET 3026C & RET 3484C or C.I. Principles underlying the development, implementation, and management of a comprehensive cardiopulmonary rehabilitation program. Spring.

RET 4715 HPA-HP 3(3,0)

RET 4876 HPA-HP 8(1,24)

RET 4934 HPA-HP 2(2,0)
Selected Topics in Respiratory Therapy: PR: C.I. Current topics of adult critical care, as they apply to the advanced study of respiratory therapy. Spring.

RET 5510 HPA-HP 3(3,0)
Research Methods in Cardiopulmonary Physiology: Introduction to methods used in scientific and medical research in cardiopulmonary physiology. Literature review, experimentation, and data analysis. Occasional.

RMI 3111 BA-FIN 3(3,0)
Principles of Risk and Insurance: PR: FIN 3403. Emphasis is on insurance as a risk-handling device, with attention given to risk assumption, risk avoidance, and loss prevention. Spring.

RTE 3000 HPA-HP 3(3,0)
Introduction to Radiologic Sciences: PR: Admission to Radiologic Sciences program. Orientation to career field, radiation protection, principles and procedures of medical imaging and radiation therapy. Fall.

RTE 3111C HPA-HP 2(1,5,1,5)
Introduction to Patient Care: PR: Acceptance to the program. Provides the student with fundamentals of patient care methods related to radiography. Fall. M&S fee: $10.00

RTE 3116 HPA-HP 3(3,0)
Advanced Patient Care: PR: RET 3116C or C.I. Study of advanced patient care concepts and techniques associated with computed tomography, magnetic resonance imaging, mammography, pediatrics and interventional procedures. Spring.

RTE 3308 HPA-HP 3(3,0)
Medical Physics: PR: RET 3684C or C.I. Study of radiation production, characteristics, detection and measurement, and protection, including barrier thickness calculation and shielding. Occasional.

RTE 3418C HPA-HP 3(2,5,1,5)
Principles of Radiographic Exposure I: An introduction to the technical variables influencing radiographic and fluoroscopic image quality, including equipment considerations, prime exposure factors, image receptors, and accessory exposure devices. Fall. M&S fee: $26.00

RTE 3457C HPA-HP 3(2,5,1,5)
Principles of Radiographic Exposure II: PR: RET 3418C or C.I. Study of technical and photographic processing variables influencing conventional, radiographic and digital image quality. Spring. M&S fee: $28.00

RTE 3503C HPA-HP 3(2,3)
Radiographic Procedures I: PR: Admission to the program. Provides fundamental knowledge of radiographic positioning, equipment manipulation, and quality evaluation of radiographic studies of the chest, abdomen, routine contrast studies, and the upper extremity. Fall. M&S fee: $45.00

RTE 3513C HPA-HP 3(2,3)
Radiographic Procedures II: PR: RTE 3503C or C.I. Continuation of radiographic positioning, equipment manipulation, and quality evaluation of radiographic studies of the shoulder, bony thorax, lower extremity, vertebral column, cranium, and facial bones. Spring. M&S fee: $45.00

RTE 3614 HPA-HP 2(2,0)
Physics of Image Production: PR: College Physics II. Physics of diagnostic radiology, including radiation production, physical principles of generator operation, and characteristics of electromagnetic radiation. Fall.

RTE 3804 HPA-HP 4(0,16)
Clinical Education I: PR: RTE 3111C or C.I. Supervised clinical practice in radiographic procedures, radiation protection, patient care, equipment. Spring.

RTE 4020 HPA-HP 3(3,0)
Methods in Radiology Management: Concepts of radiology, department management, including principles, personnel management, evaluation and improvement techniques, budgeting, financial considerations and legal aspects, and JCAH quality assurance specifications. Occasional.

RTE 4206 HPA-HP 3(3,0)
Leadership in Radiologic Sciences: PR: Senior level status in RS major or C.I. Study of the theories, principles and skills needed to function in a leadership position in Radiologic Sciences. Spring.

RTE 4209 HPA-HP 2(0,8)
Radiological Administrative Practice: A directed practice in the management of a radiology department, with application of theory and methodology. Occasional.

RTE 4385 HPA-HP 1(1,0)
Radiobiology: PR: RTE 3308. A study of the effects of ionizing radiation on biologic systems. The responses at the cellular and total organism level are investigated. Fall.

RTE 4473 HPA-HP 3(3,0)
Quality Improvement: PR: Registered technologist or Senior standing. The study of quality improvement and quality control from the perspective of radiology services. Spring.

RTE 4563 HPA-HP 2(2,0)
Special Radiographic Procedures: PR: RTE 3513C or C.I. Principles of nonvascular invasive procedures, including myelography, cholangiography, hysterosalpingography, and bronchography. Occasional.

RTE 4573 HPA-HP 3(3,0)
Advanced Imaging Modalities: PR: RTE 3563 or C.I. A study of the physical principles and applications of computed tomography, digital imaging, interventional radiography, mammography, ultrasound, magnetic resonance imaging, and nuclear medicine. Fall.

RTE 4574 HPA-HP 1(1,0)
Computed Tomography Protocols: PR: Senior level status in Radiologic Sciences program. Examines the application of imaging techniques accomplished by multidetector row computed tomography acquisition. Fall.

RTE 4579 HPA-HP 1(1,0)
Magnetic Resonance Imaging Protocols: PR: Senior level status in Radiologic Sciences Program. Provides overview of imaging protocols used for specific MRI procedures. Content includes patient screening, safety procedures, patient positioning, coil and accessory device selection and use. Fall.

RTE 4762 HPA-HP 3(3,0)
Anatomy for the Medical Image: A study of the normal anatomical structures and interrelationships of structures as demonstrated in a radiographic and cross-sectional imaging reference. Fall.
### UCF Courses and Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RTE 4782</td>
<td>Pathophysiology</td>
<td>2(0,0)</td>
</tr>
<tr>
<td>HPA-HP</td>
<td></td>
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<tr>
<td>RTE 4814L</td>
<td>Clinical Education II</td>
<td>5(0,20)</td>
</tr>
<tr>
<td>HPA-HP</td>
<td></td>
<td></td>
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<tr>
<td>RTE 4824L</td>
<td>Clinical Education II</td>
<td>6(0,24)</td>
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<td>HPA-HP</td>
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<tr>
<td>RTE 4834</td>
<td>Clinical Education IV</td>
<td>4(0,16)</td>
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<td>HPA-HP</td>
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<tr>
<td>RTE 4844</td>
<td>Clinical Education V</td>
<td>4(0,16)</td>
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<td>HPA-HP</td>
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<tr>
<td>RTE 4854</td>
<td>Advanced Clinical Practicum</td>
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<td>HPA-HP</td>
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<tr>
<td>RTE 4903</td>
<td>Directed Study in Radiologic Education</td>
<td>2(0,8)</td>
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<tr>
<td>HPA-HP</td>
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<tr>
<td>RTV 2102</td>
<td>Writing for the Electronic Media</td>
<td>3(3,0)</td>
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<tr>
<td>RTV 3007</td>
<td>Development and Structure of Electronic Media and New Technology</td>
<td>3(3,0)</td>
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<tr>
<td>RTV 3101</td>
<td>Broadcast Copywriting</td>
<td>3(1,2)</td>
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<tr>
<td>RTV 3200</td>
<td>Production Fundamentals and Aesthetics of Electronic Media</td>
<td>3(3,0)</td>
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<tr>
<td>RTV 3210C</td>
<td>Audio Production</td>
<td>3(2,1)</td>
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<tr>
<td>RTV 3222C</td>
<td>Lighting for Video</td>
<td>3(2,1)</td>
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<tr>
<td>RTV 3228C</td>
<td>Studio Television Production</td>
<td>4(3,1)</td>
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<tr>
<td>RTV 3234C</td>
<td>Broadcast Announcing and Performance</td>
<td>3(2,1)</td>
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<tr>
<td>RTV 3260C</td>
<td>Single Camera Video Production and Editing</td>
<td>4(3,1)</td>
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<tr>
<td>RTV 3263C</td>
<td>Advanced Video Post-Production</td>
<td>2(3,1)</td>
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<tr>
<td>RTV 3283C</td>
<td>Production of Interactive Multimedia</td>
<td>2(3,1)</td>
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<tr>
<td>RTV 3301</td>
<td>Electronic Journalism</td>
<td>3(3,0)</td>
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<tr>
<td>RTV 3304</td>
<td>Electronic Journalism</td>
<td>3(3,0)</td>
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<tr>
<td>RTV 3942L</td>
<td>Practicum</td>
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<tr>
<td>RTV 4206C</td>
<td>Television Directing</td>
<td>3(2,1)</td>
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<tr>
<td>RTV 4211C</td>
<td>Audio Production</td>
<td>3(2,1)</td>
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</tbody>
</table>
UCF Courses and Descriptions

SOW 4650 HPA-SOWK 3(3,0)
Child Abuse: Treatment and Prevention: PR: SOW 3300 and Admission to BSW program or C.I. The social worker’s role and interventions with victims of child abuse and their family members. Spring.

SOW 4654 HPA-SOWK 3(3,0)

SOW 4673 HPA-SOWK 3(3,0)

SOW 4705 HPA-SOWK 3(3,0)

SOW 4730 HPA-SOWK 3(3,0)
Documentation in Social Work Practice: PR: SOW 3360 and SOW 2562. For Social Work majors only. Development of documentation skills for the delivery of social work services in various agency settings. Fall.

SOW 4754 HPA-SOWK 3(3,0)
Forensic Social Work Theory and Practice: PR: SOW 3203 or C.I. The role of social workers within the courts and criminal justice system. Occasional.

SOW 5105 HPA-SOWK 3(3,0)
Human Behavior and Social Environment I: Individual: PR: Admission to MSW program. Study of human development and psychosocial functioning of individuals at various life stages with particular attention to implications of human diversity. Fall.

SOW 5106 HPA-SOWK 3(3,0)
Human Behavior and Social Environment II: Social Systems: Study of the patterns and dynamics of families, groups, organizations, and communities from a social work and a systems perspective. Spring.

SOW 5109 HPA-SOWK 3(3,0)
Violence Against Women: A Global Perspective: PR: 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. Odd Spring.

SOW 5132 HPA-SOWK 3(3,0)
Diverse Client Populations: Study of human diversity, focusing on the needs, resources, problems, and service issues of several identified minority client populations. Spring.

SOW 5235 HPA-SOWK 3(3,0)
Social Welfare Policies and Services: Study of societal responses to human needs; forces shaping social welfare systems; introduces frameworks for analyzing social policies and services. Fall.

SOW 5305 HPA-SOWK 3(3,0)
Social Work Practice I: Generalist Practice: Study of social work functions, knowledge, values, roles and skills; the use of a generalist model of practice. Fall.

SOW 5306 HPA-SOWK 3(3,0)
Social Work Practice II: Intervention Approaches: Study of selected social work theories, strategies, and techniques for helping people and improving system responsiveness to human needs. Spring.

SOW 5355 HPA-SOWK 3(3,0)
Studies in Social Work Practice: PR: C.I. Analysis of one or more urban practice issues and approaches. May be repeated for credit. Occasional.

SOW 5387 HPA-SOWK 3(3,0)
nonprofit Resource Development: PR: Admission to certification program or C.I. Resource Development in nonprofit organizations, including board development and leadership, volunteer program development, staff development, grant funding, fundraising, marketing, and government contract development and management. Occasional.

SOW 5404 HPA-SOWK 3(3,0)
Social Work Research: Study of group research designs in social work; quantitative analysis; and related ethical issues. Fall.

SOW 5432 HPA-SOWK 3(3,0)
Evaluating Social Work: Study of single case designs in social work, recording methods, behavioral and standardized measures; applications to individuals, families, groups, programs, communities. Occasional.

SOW 5532 HPA-SOWK 2(2,0)

SOW 5533 HPA-SOWK 2(2,0)
Generalist Field Education II: PR: MSW. Continuation of SOW 5532 Generalist Field Education I in the same field agency for 224 clock hours. Graded S/U. Odd Fall. Spring.

SOW 5534 HPA-SOWK 1(1,0)
Generalist Field Education Integrative Seminar I: PR: Admission to MSW program. CR: SOW 5532. Seminar designed to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U. Fall.

SOW 5538 HPA-SOWK 3(3,0)
Full-Time MSW Generalist Field Education and Seminar I: PR: Graduate standing or C.I.; CR: SOW 5305. Field education for full-time MSW generalist students; includes seminars and supervised practice of social work in an agency for 250 clock hours. Graded S/U. Occasional.

SOW 5539 HPA-SOWK 3(3,0)
Full-Time MSW Generalist Field Education and Seminar II: PR: SOW 5538; CR: SOW 5306. Field education for full-time MSW generalist students; includes seminar and supervised practice of social work in an agency for 250 clock hours. Graded S/U. Occasional.

SOW 5546 HPA-SOWK 1(1,0)
Generalist Field Education Integrative Seminar II: PR: Admission to MSW program. CR: Generalist Field Education II. Continuation of generalist field education integrative seminar I to facilitate student integration of generalist social work practice and theory while strengthening partnerships in the community. Graded S/U. Spring.

SOW 5565 HPA-SOWK 2(2,0)

SOW 5566 HPA-SOWK 2(2,0)

SOW 5603 HPA-SOWK 3(3,0)
Social Work in Health Settings: PR: Graduate standing or C.I. Study of social work roles, interventions, and issues related to helping clients in health settings. Spring.

SOW 5604 HPA-SOWK 3(3,0)
Medications in Social Work Practice: PR: graduate standing, post-bacc status, senior in SW program or C.I. The study of the effects that psychotropic medications can have within the counseling/helping relationship. Spring.

SOW 5624 HPA-SOWK 3(3,0)
Social Work Practice in Mexican Culture: PR: C.I. The practice of social work in Mexican culture through cultural immersion, seminars, field visits and language instruction. Occasional.

SOW 5625 HPA-SOWK 3(3,0)

SOW 5635 HPA-SOWK 3(3,0)
Social Work Practice in Schools: PR: Social Work Graduate standing or C.I. Study of knowledge, skills and abilities necessary for competent practice with students, their teachers, families, schools and communities. Even Spring.

SOW 5642 HPA-SOWK 3(3,0)
Aging in Social Situations: PR: Admission to MSW program or Gerontology Certificate Program or C.I. Knowledge about elderly in social situations or environmental context. Occasional.

SOW 5644 HPA-SOWK 3(3,0)
Interventions with Elderly and Their Families: PR: Admission to Gerontology graduate certification program or MSW program or C.I. Study of concepts, skills, models and theories for intervening with aged. Special attention is given to minority populations. Even Spring.

SOW 5652 HPA-SOWK 3(3,0)

SOW 5655 HPA-SOWK 3(3,0)
Child Abuse: Treatment and Prevention: The social worker’s role and interventions with victims of child abuse and their family members. Spring.

SOW 5662 HPA-SOWK 3(3,0)
Strategies in Employee Assistance Programs: Techniques for establishing, providing, and evaluating services to people with problems which affect job performance. Occasional.

SOW 5670 HPA-SOWK 3(3,0)
Gay and Lesbian Experience in American Society: PR: seniors or graduate status. Sexual orientation in a cultural context; resources and policies affecting gay and lesbian people; and professional considerations in interventions with and for gay and lesbian clients. Occasional.
Interventions with Substance Abusers: Strategies for working with persons who abuse drugs, alcohol, and other substances. Odd Fall, Spring.


Introduction to Forensic Social Work Theory and Practice: PR: Graduate standing or C.I. Course develops the understanding of the role of social workers in the court and criminal justice system. Occasional.

Spiritualty in Professional Counseling: PR: Graduate standing: post-bac status, seniors, or C.I. Examination of spirituality as it relates to professional counseling. Odd Spring.

Introduction to American Sign Language: Development of ASL vocabulary and grammar. Odd Fall, Spring.


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 cultural attitudes toward persons and disabilities. Occasional.


Speech Science I: Production: PR: SPA 3112. CR: SPA 3011L. Study of how speech is produced, and how that acoustic signal is measured. Fall, Spring.


Physiological Bases of Speech and Hearing: PR: or CR: SPA 3417. An introduction to the anatomical, physiological, and physical elements underlying the communication process. Fall, Spring.

Structures and functions of the nervous system involved in communication and its disorders. Fall, Spring.

Basic Phonetics: CR: SPA 3112L. Descriptions and visual notation of standard speech patterns and regional dialects. Fall, Spring.


Communication Disorders in Literature and Media: PR: PSY 3102 or SYG 2000. Exploration of communication disorders in literature and media, emphasizing psychosocial, academic, vocational, and familial challenges as well as society’s perceptions of individuals with communication disorders. Fall, Spring.

Guidance of Young Children with Communication Disorders: PR: SPA 3471. Social/emotional and behavioral difficulties of children with communication disorders; positive child guidance and behavioral management strategies for clinicians and parents. Fall, Spring.


Speech Disorders Across the Lifespan: PR: SPA 3471, SPA 3101, and SPA 3112. Causes and characteristics of speech and swallowing disorders in children and adults, including those affecting articulation, phonation, resonance, fluency, and feeding and swallowing. Fall, Spring.

Multicultural Aspects of Communication Disorders & Differences: PR: LIN 3716. Cultural and linguistic diversity among individuals with communication disorders and differences. Special emphasis on African, Hispanic, Asian, and Native American. Fall, Spring.

Counseling in Communicative Disorders: PR: SPA 4056C. Practical interviewing and counseling in the area of Communicative Disorders. Spring.

Augmentative and Alternative Communication Systems: PR: LIN 3717 or C.I. The total integrated network of techniques, aids, strategies, and skills individuals use to supplement or replace inadequate natural speaking ability. Occasional.


Structure of American Sign Language: PR: SPA 2612 and SPA 2613 or C.I. Study of phonologic, syntactic, semantic, and discourse structure of ASL, including an emphasis on the biological basis of language and communication. Occasional.

Fingerspelling: PR: SPA 2612 and SPA 2613 or C.I. The study and practice of fingerspelling techniques to improve receptive and expressive fingerspelling proficiency beyond basic skill levels. Occasional.

Literature of Signed Languages: PR: SPA 2611. Overview of literature produced by Deaf communities across the world, with emphasis on the American Deaf Community.Genres include poetry, narrative, historical and cultural prose. Occasional.

SPN 1121 CAH-LANG 4(4,1)  
Elementary Spanish Language and Civilization II: PR: SPN 1120 or equivalent. Continuation of SPN 1120. Fall, Spring.

SPN 1130H CAH-LANG 4(4,1)  
Honors Elementary Spanish Language and Civilization II: PR: Permission of Honors. Introduces the student to Spanish culture through the major language skills: listening, speaking, reading and writing. Open only to students with no experience in this language. Honors-level content. Occasional.

SPN 1131H CAH-LANG 4(4,1)  
Honors Elementary Spanish Language and Civilization II: PR: Permission of Honors and SPN 1130H or equivalent. Same as SPN 1121 with honors-level content. Occasional.

SPN 1170 CAH-LANG 8(16,10)  
Elementary Spanish Study Abroad: Elementary Spanish language and civilization taught in the native environment. Occasional.

SPN 2200 CAH-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. Fall, Spring.

SPN 2200H CAH-LANG 3(3,1)  
Honors Intermediate Spanish: PR: SPN 1121 or SPN 1131H and Consent of Honors. Development of language skills and cultural knowledge at the intermediate level. With Honors content. Fall.

SPN 2201 CAH-LANG 3(3,1)  
Intermediate Spanish Language and Civilization II: PR: SPN 2200 or equivalent. Continuation of SPN 2200, with emphasis on Spanish civilization. Occasional.

SPN 2240 CAH-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. Occasional.

SPN 2241 CAH-LANG 3(3,0)  

SPN 2340 CAH-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. Occasional.

SPN 2341 CAH-LANG 3(3,0)  
Advanced Spanish for Native Speakers: PR: SPN 2340 or C.I. This course is the continuation of SPN 2340 geared towards native speakers and will complete the remaining grammatical topics as well as emphasis composition skills. Occasional.

SPN 2511 CAH-LANG 3(3,0)  
Modern Spanish Civilization Abroad: PR: SPN 1120 & 1121. This intensive course will focus on modern Spanish culture using examples from present day society. Cultural visits and realia are essential components of this course. Occasional.

SPN 3140 CAH-LANG 3(3,0)  
Business Spanish I: PR: SPN 2200 and SPN 2201 or equivalent. Basic business terminology, business culture, and business topics related to the Hispanic World. Odd Fall.

SPN 3141 CAH-LANG 3(3,0)  
Business Spanish II: PR: C.I. Continuation of Business Spanish I. Even Fall.

SPN 3142 CAH-LANG 3(3,0)  
Business Spanish III: PR: C.I. Continuation of Business Spanish II. Even Fall.

SPN 3234 CAH-LANG 3(3,0)  
Advanced Directed Readings: PR: SPN 2200 or C.I. Use of Spanish literature and Spanish texts in general, to develop reading comprehension and analysis skills for non-native speakers. Fall, Spring.

SPN 3300 CAH-LANG 3(3,0)  
Advanced Spanish Grammar and Composition: PR: SPN 2201 or equivalent. Advanced Spanish grammatical topics, idiomatic expressions, and continued development of writing skills based on the newly acquired concepts. Fall, Spring.

SPN 3343 CAH-LANG 3(3,0)  
Advanced Rhetoric for Native Speakers: PR: Third year level oral proficiency. Systematic study of Spanish grammar as applied to rhetoric in standard Spanish for native speakers only. Occasional.

SPN 3344 CAH-LANG 3(3,0)  
Advanced Spanish Native Fluency I: PR: SPN 3300 or C.I. Advanced grammatical topics and composition skills for native or near-native fluency speakers. Fall.

SPN 3345 CAH-LANG 3(3,0)  
Advanced Spanish Native Fluency II: PR: SPN 3344. Continuation of Advanced Spanish Native Fluency I emphasizing the remaining grammatical topics and composition skills. Spring.

SPN 3402 CAH-LANG 3(3,0)  
Practice in Modern Spanish Grammar: PR: SPN 2241 or 3420. This intensive Spanish course will provide the advanced student with practice and drill in modern Spanish using native texts. Occasional.

SPN 3420 CAH-LANG 3(3,0)  
Spanish Composition: PR: SPN 2201 or equivalent. Development of skills in composition. Fall, Spring.

SPN 3512 CAH-LANG 3(3,0)  
Contemporary Spanish Culture Abroad: PR: SPN 2241 or 3420. This course will focus on contemporary Spanish culture presented through classroom lectures and discussions, assigned reading and scheduled activities. Occasional.

SPN 3760 CAH-LANG 3(3,0)  
Advanced Spanish Oral Communication: PR: SPN 2201 or SPN 2340 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. Fall, Spring.

SPN 3850 CAH-LANG 3(3,0)  

SPN 3852 CAH-LANG 3(3,0)  

SPN 3933 CAH-LANG 1(1,0)  
Spanish Across the Curriculum: PR: SPN 2201 or C.I. CR: concurrent enrollment in a designated course. Improvement of skills in Spanish within the student's major or minor. Open to students in all colleges. May be repeated for credit. Fall, Spring.

SPN 4143 CAH-LANG 3(3,0)  

SPN 4410 CAH-LANG 3(3,0)  
Advanced Spanish Conversation: PR: SPN 3760, SPN 3420, and SPN 3340 or C.I. Advanced conversation on directed topics from various disciplines: literature, art, psychology, philosophy, music, business, and the sciences. Fall.

SPN 4421 CAH-LANG 3(3,0)  
Advanced Spanish Composition: PR: SPN 3300, SPN 3420, SPN 3760 or C.I. Readings and written imitations of modern literary styles in the form of themes, sketches, poems, and original stories. Even Spring.

SPN 4510 CAH-LANG 3(3,0)  
Spanish Civilization and Culture: PR: SPN 3760, SPN 3420 and SPN 3300 or C.I. A study of Spanish civilization and culture from Pre-Roman times to the present. Conducted in Spanish. Occasional.

SPN 4520 CAH-LANG 3(3,0)  
Latin American Civilization and Culture: PR: SPN 3760 and SPN 3300, or C.I. An overview of the currents in Latin American culture and civilization from the pre-Columbian period to the present. Conducted in Spanish. Occasional.

SPN 4780 CAH-LANG 3(3,0)  
Spanish Phonetics: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Students will learn the basic principles of Spanish pronunciation and perfect the correct pronunciation of Spanish through intensive practice and oral drill. Occasional.

SPN 4800 CAH-LANG 3(3,0)  
Spanish-American Syntax: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. The course examines the Spanish language from its beginning to the present, with special emphasis as it is written and spoken in Latin America and the U.S. Occasional.

SPN 4801 CAH-LANG 3(3,0)  
Spanish Morphology: PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Emphasizes the structure as well as the capacity for recognizing the differences between semantics, morphology, syntax, and phonology in the Spanish language, as well as the use and correct application of criteria when analyzing texts. Taught in Spanish. Occasional.

SPN 5502 CAH-LANG 3(3,0)  
Hispanic Culture of the United States: PR: Graduate status or senior standing or C.I. An analysis of the Hispanic culture of the United States, past and present. Occasional.

SPN 5505 CAH-LANG 3(3,0)  
Spanish Peninsular Culture and Civilization: PR: Graduate status or senior standing or C.I. An analysis of the salient characteristics of Spanish culture and civilization. Occasional.

SPN 5506 CAH-LANG 3(3,0)  
Spanish American Culture and Civilization: PR: Graduate status or senior standing or C.I. An analysis of the salient characteristics of Spanish American culture and civilization. Occasional.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Department</th>
<th>Title</th>
<th>Credits</th>
<th>Pre-Requisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPN 5825 CAH-LANG</td>
<td>3(3,0)</td>
<td>Spanish Dialectology</td>
<td></td>
<td>PR: Graduate status or senior standing or C.I. This course is a survey of the diversity found within the Spanish language with respect to phonological constraints, morphology, second language influences, and historical development. Occasional.</td>
</tr>
<tr>
<td>SPN 5845 CAH-LANG</td>
<td>3(3,0)</td>
<td>History of the Spanish Language</td>
<td></td>
<td>PR: Graduate status or senior standing or C.I. An overview of linguistic characteristics of Latin and its evolution into Spanish with historical development of phonetic, morphological, and syntactic properties. Occasional.</td>
</tr>
<tr>
<td>SPN 5920 CAH-LANG</td>
<td>3(3,0)</td>
<td>AP Spanish Language</td>
<td></td>
<td>PR: Graduate status or senior standing or C.I. Participants will enhance their knowledge of the language and culture of Spanish-speaking peoples and develop further proficiency in listening, comprehension, speaking, reading, and writing. Occasional.</td>
</tr>
<tr>
<td>SPT 3800 CAH-LANG</td>
<td>3(3,0)</td>
<td>Spanish Translation and Interpretation</td>
<td></td>
<td>PR: Completion of 2000 level sequence or equivalent. Introduction to translation and interpretation. Practical applications of theory applied to professional written and audio texts from Spanish to English and from English to Spanish. Fall, Spring.</td>
</tr>
<tr>
<td>SPT 3805 CAH-LANG</td>
<td>3(3,0)</td>
<td>Spanish Translation and Interpretation for Mass Communication</td>
<td></td>
<td>PR: SPN 3420. Translation and interpretation in mass communication using all forms of media. Even Spring.</td>
</tr>
<tr>
<td>SPT 3809 CAH-LANG</td>
<td>3(3,0)</td>
<td>Medical Spanish Translation/Interpretation</td>
<td></td>
<td>PR: SPN 2241 and SPN 3420. The basic Spanish terminology, techniques and ethics in the field of medical translation and interpretation. Odd Fall.</td>
</tr>
<tr>
<td>SPT 3831 CAH-LANG</td>
<td>3(3,0)</td>
<td>Spanish Legal Translation and Interpretation</td>
<td></td>
<td>PR: SPN 3420 and SPN 2241. The terminology, procedures and ethics required to be a Spanish language court interpreter and translator in the legal field. May be repeated for credit. Even Fall.</td>
</tr>
<tr>
<td>SPT 4801 CAH-LANG</td>
<td>3(3,0)</td>
<td>Spanish Translation Practicum</td>
<td></td>
<td>PR: SPT 3800. Development of translation and interpretation skills in a professional environment. Concentration in legal, medical, and business areas. Occasional.</td>
</tr>
<tr>
<td>SPW 3000H CAH-LANG</td>
<td>3(3,0)</td>
<td>Honors: Nobel Prize Literature: Spain and Latin America</td>
<td></td>
<td>PR: Permission of Honors and Junior standing or C.I. Students will analyze, discuss and research English and Spanish language Nobel Prize Literature, focusing on the influencing of their narrative.</td>
</tr>
<tr>
<td>SPW 3100 CAH-LANG</td>
<td>3(3,0)</td>
<td>Survey of Spanish Literature</td>
<td></td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works from the Middle Ages through the Eighteenth century. Fall.</td>
</tr>
<tr>
<td>SPW 3101 CAH-LANG</td>
<td>3(3,0)</td>
<td>Survey of Spanish Literature I</td>
<td></td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works of the Nineteenth century to the present. Spring.</td>
</tr>
<tr>
<td>SPW 3130 CAH-LANG</td>
<td>3(3,0)</td>
<td>Survey of Latin-American Literature</td>
<td></td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works from the colonial period to Nineteenth Century Romanticism. Fall.</td>
</tr>
<tr>
<td>SPW 3131 CAH-LANG</td>
<td>3(3,0)</td>
<td>Survey of Latin-American Literature II</td>
<td></td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. Main literary currents and works of the Nineteenth century from Realism to the present. Spring.</td>
</tr>
<tr>
<td>SPW 3320 CAH-LANG</td>
<td>3(3,0)</td>
<td>Modern Hispanic Theatre Workshop I</td>
<td></td>
<td>PR: C.I. Introduction to fundamental actor's technique and practice in Spanish. Short scenes will be performed in class. Occasional.</td>
</tr>
<tr>
<td>SPW 3370 CAH-LANG</td>
<td>3(3,0)</td>
<td>Spanish Short Story</td>
<td></td>
<td>PR: SPN 3760, SPN 3420 and SPN 3300, or C.I. A study of representative 19th and 20th-century Spanish short stories and their authors. Occasional.</td>
</tr>
<tr>
<td>SPW 4272 CAH-LANG</td>
<td>3(3,0)</td>
<td>20th Century Spanish Novel</td>
<td></td>
<td>PR: SPW 3101 or SPW 3122 or C.I. Major works by the leading authors of the 20th century. Texts selected are not only for their aesthetic value, but also in terms of their historical and cultural significance. Occasional.</td>
</tr>
<tr>
<td>SPW 4310 CAH-LANG</td>
<td>3(3,0)</td>
<td>Golden Age Drama</td>
<td></td>
<td>PR: SPN 3100 or C.I. A study of the drama of the Golden Age, with special emphasis on Lope, Tirso, Alarcón, and Calderón. The controversies of the Spanish theatre and its influence abroad are examined. Occasional.</td>
</tr>
<tr>
<td>SPW 4322 CAH-LANG</td>
<td>3(3,0)</td>
<td>Contemporary Iberian Theatre</td>
<td></td>
<td>PR: SPN 3101 or C.I. A study of the major playwrights and tendencies in contemporary Iberian theatre. Occasional.</td>
</tr>
<tr>
<td>SPW 4364 CAH-LANG</td>
<td>3(3,0)</td>
<td>Latin-American Narrative/Essay</td>
<td></td>
<td>PR: SPN 3100 or SPW 3101 or C.I. Analysis of instructional procedures, and literary theories. May be repeated for credit only when course content is different. Occasional.</td>
</tr>
<tr>
<td>SPW 4381 CAH-LANG</td>
<td>3(3,0)</td>
<td>Latin-American Theatre/Poetry</td>
<td></td>
<td>PR: SPW 3100 or SPW 3130 or SPW 3370 or C.I. Study of Latin-American theatre/poetry (changing topics by semester) with emphasis on 20th century texts, contrasting techniques, procedures, and literary theories. May be repeated for credit only when course content is different. Occasional.</td>
</tr>
<tr>
<td>SPW 4382 CAH-LANG</td>
<td>3(3,0)</td>
<td>Central American Literature</td>
<td></td>
<td>PR: SPN 3131 or C.I. This course familiarizes the student with literary works of prominent writers from Central America. It covers the different literary periods within Central America literary history. Taught in Spanish. Occasional.</td>
</tr>
<tr>
<td>SPW 4450 CAH-LANG</td>
<td>3(3,0)</td>
<td>Spanish Literary Theory</td>
<td></td>
<td>PR: SPW 3000 and SPW 3101, or SPW 3130 and SPW 3131, or C.I. A study of literary criticism in the theory of genre. Occasional.</td>
</tr>
<tr>
<td>SPW 4460 CAH-LANG</td>
<td>3(3,0)</td>
<td>Nineteenth Century Spanish Literature</td>
<td></td>
<td>PR: SPW 3101 or C.I. A study of the representative authors and works in Spanish Romanticism, Realism, and Naturalism. Occasional.</td>
</tr>
<tr>
<td>SPW 4604 CAH-LANG</td>
<td>3(3,0)</td>
<td></td>
<td></td>
<td>PR: SPW 3100 or C.I. Don Quixote. Occasional.</td>
</tr>
<tr>
<td>SPW 4720 CAH-LANG</td>
<td>3(3,0)</td>
<td>The Generation of 1898</td>
<td></td>
<td>PR: SPW 3101 or C.I. A study of the generation's main authors and their works. Occasional.</td>
</tr>
<tr>
<td>SPW 4730 CAH-LANG</td>
<td>3(3,0)</td>
<td>Hispanic Literature of the United States</td>
<td></td>
<td>PR: SPW 3101 or SPW 3131 or C.I. Reading and study of outstanding works written by Hispanic writers of the United States. Occasional.</td>
</tr>
<tr>
<td>SPW 4770 CAH-LANG</td>
<td>3(3,0)</td>
<td>Caribbean Spanish Literature</td>
<td></td>
<td>PR: SPW 3101 or SPW 3131 or C.I. An overview of the literature of the Spanish-speaking Caribbean countries from colonial times to the present. Occasional.</td>
</tr>
<tr>
<td>SPW 4772 CAH-LANG</td>
<td>3(3,0)</td>
<td>Black Presence in Contemporary Latin American Literature</td>
<td></td>
<td>PR: SPW 3101 or SPW 3131 or C.I. An analysis and discussion of representative contemporary works of authors who have included the black character as part of their narrative. Occasional.</td>
</tr>
<tr>
<td>SPW 4773 CAH-LANG</td>
<td>3(3,0)</td>
<td>Puerto Rican Literature</td>
<td></td>
<td>PR: SPW 3100 and SPW 3101 or SPW 3130 and SPW 3131. Puerto Rican Literature from XIX Century to present. Conducted in Spanish. Occasional.</td>
</tr>
<tr>
<td>SPW 5741 CAH-LANG</td>
<td>3(3,0)</td>
<td>Contemporary Spanish American Southern Cone Literature</td>
<td></td>
<td>PR: Enrolled in Spanish M.A. Program or C.I. Regional as well as international literary cultures and disciplines in southern cone literature. Occasional.</td>
</tr>
<tr>
<td>SSE 3312 ED-TLP</td>
<td>3(3,0)</td>
<td>Teaching Social Science in the Elementary School</td>
<td></td>
<td>PR: Admission to Phase II or C.I. Selected themes, problems, and concepts; organizing for instruction; techniques, evaluation procedures. Fall, Spring.</td>
</tr>
<tr>
<td>SSE 4361 ED-TLP</td>
<td>4(4.0)</td>
<td>Social Science Instructional Analysis</td>
<td></td>
<td>PR: EDG 4223 or C.I.; CR: ESE 3490 or C.I. Analysis of secondary (grades 6-12) social science instructional programs including development of objectives, materials, processes, and assessment procedures in light of current research and practice. Fall, Spring.</td>
</tr>
<tr>
<td>SSE 5115 ED-TLP</td>
<td>3(3,0)</td>
<td>Methods in Elementary School Social Science</td>
<td></td>
<td>PR: Admission to Phase II or C.I. This course familiarizes the student with instructional programs in social sciences; objectives; materials; techniques; current research; and their application in elementary school setting. Fall.</td>
</tr>
<tr>
<td>SSE 5301 ED-TLP</td>
<td>3(3,0)</td>
<td>Global Education: Theory and Practice</td>
<td></td>
<td>PR: Graduate standing or C.I. Examines the theoretical underpinnings of teaching about the world along with a variety of theoretically grounded teaching strategies for engaging students in global education. Spring.</td>
</tr>
<tr>
<td>SSE 5776 ED-TLP</td>
<td>3(3,0)</td>
<td>Democracy and Education</td>
<td></td>
<td>PR: Graduate standing or C.I. Explores the intersection of theory and practice with regard to promoting democratic life in schools. Will examine competing theories of democracy and education, investigate problem areas in schools related to democracy, and consider examples of practice. Fall.</td>
</tr>
<tr>
<td>SSE 5790 ED-TLP</td>
<td>3(3,0)</td>
<td>Inquiry and Instructional Analysis in Social Science Education</td>
<td></td>
<td>PR: Admission to M.A. program or alternative certification certificate program. Study of instructional programs in social science education and related scholarship; development of an inquiry about the intersection of theory and practice in social science teaching. Occasional.</td>
</tr>
</tbody>
</table>
UCF Courses and Descriptions

STA 5646 COS-STAT 3(3,0)

STA 5703 COS-STAT 3(3,0)
Data Mining Methodology: PR: STA 5103 and STA 5206, graduate status or senior standing, or C.I. Data mining to uncover valuable information through SEMMA (Sample, Explore, Model, Modify, and Access). Process with neural network and decision tree. Fall.

STA 5825 COS-STAT 3(3,0)

STA 5940 COS-STAT 1(1,0)
Statistical Software for Researcher: PR: Graduate status or senior standing or C.I. Discussion of student-supplied statistical problem, data sources, sampling techniques, computer package usage, analysis, interpretation. May be repeated for credit. Graded S/U. Occasional.

SUR 2101C ECS-CEE 3(2,3)
Surveying: PR: MAC 2311 and Junior standing. Theory and field practice in surveying measurements and the reduction and adjustment of field data. Spring.

SUR 3530C ECS-ENT 3(2,2)
Geodetic Science: PR: SUR 2101C or C.I. Spherical trigonometry, basic topics in geodesy including geodetic reference systems and earth models, state plane coordinates, astronomical observations, time systems, and satellite orbits. Spring.

SYA 3110 COS-SOC 3(3,0)
The Development of Social Thought: PR: Junior standing and 9 hours of upper level sociology courses or C.I. Theories concerning the nature of mankind as a "social being." The nature of society from the beginnings of the scientific study of human life to World War II. Spring.

SYA 3120 COS-SOC 3(3,0)
Modern Sociological Thought: PR: Junior standing and 9 hours of upper level sociology courses or C.I. A study of major European and American contributors to modern sociology since World War II. Occasional.

SYA 3400 COS-SOC 4(3,1)
Research Methods and Statistics: PR: SYG 2000 and one other sociology course. Fall.

SYA 4112 COS-SOC 3(3,0)

SYA 4300C COS-SOC 4(3,2)
Research Methods: PR: SYG 2000 or SYG 2010 or C.I. Sociological data collections, sampling techniques, grant proposal development, critical evaluation of social research, and relationship between theory and social research. Fall.

SYA 4310C COS-SOC 4(3,1)
Qualitative Research Analysis in Sociology: PR: SYA 4000C. Advanced research design and analysis focusing on qualitative research methodologies in sociology. Emphasizes data collection, management, analysis, interpretation, integration, presentation, and report writing. Occasional.

SYA 4450 COS-SOC 4(3,2)
Data Analysis: PR: SYA 4300C and SYA 3400. Advanced social research design and analytical skills. Emphasis on social data management, various modes of social data analysis, interpretation, integration, analysis and presentation. and report writing. Spring.

SYA 4650C COS-SOC 3(2,2)

SYA 5625 COS-SOC 3(3,0)
ProSeminar: PR: Graduate standing or C.I. Survey of conceptual issues, methodological concerns, and findings in substantive sociological areas that currently dominate scholarly inquiry, including such topics as crime, deviance, community, alcoholism, education. Fall.

SYA 5652 COS-SOC 3(3,0)
Advanced Population: PR: Graduate standing or C.I. Examines the theories, methods, and information utilized by demographers and focuses on techniques of application of those skills. Occasional.

SYD 3410 COS-SOC 3(3,0)

SYD 3700 COS-SOC 3(3,0)
Race and Ethnic Minorities in the United States: Theoretical analysis of the emergence, maintenance, and disruption of patterns of racial and ethnic stratification. Fall, Spring.

SYD 3750 COS-SOC 3(3,0)

SYD 3751 COS-SOC 3(3,0)

SYD 3752 COS-SOC 3(3,0)
Modern Law in Indian Country: PR: 2000 level social science course or C.I. Examination of impact of unique legal relationship between American Indian governments and state federal governments. Legal issues include criminal justice, child welfare, and land ownership. Occasional.

SYD 3800 COS-SOC 3(3,0)
Sex Roles in Modern Society: The traditional and changing roles of women and men viewed in a sociological perspective. Fall, Spring.

SYD 4020 COS-SOC 3(3,0)
Population: Concerned with the study of human population, its distribution, composition, and change. Occasional.

SYD 4510 COS-SOC 3(3,0)
Environmental Sociology: PR: SYG 2000 or C.I. Applies the sociological perspective and sociological methods of analysis to the relationships between human behavior and the environment. Odd Spring.

SYD 4514 COS-SOC 3(3,0)

SYD 4810 COS-SOC 3(3,0)
Women in Contemporary Society: PR: SYG 2000 or WST 3015 or C.I. Examination and evaluation of the status of women in the context of the major social institutions (e.g., family, education, religion, economy and politics). Fall, Spring.

SYD 4813 COS-SOC 3(3,0)

SYD 5517 COS-SOC 3(3,0)
Environment and Society: PR: Graduate standing or C.I. The application of sociological theory and methods to the relationships between communities, societies, and the environment. Occasional.

SYD 5795 COS-SOC 3(3,0)
Class, Race, and Gender in American Society: PR: Graduate standing 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. Occasional.

SYG 2000 COS-SOC 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. Fall, Spring.

SYG 2000H COS-SOC 3(3,0)
General Sociology: PR: Permission of Honors. Extensive honors work in the field of Sociology. Expectations, requirements, and standards are greater than for standard General Sociology. Fall, Spring.

SYG 2010 COS-SOC 3(3,0)
Social Problems: Analysis of major social problems such as mental disorders, sexual deviance, racial discrimination, poverty, community disorganization, and violence. Fall, Spring.

SYG 3949 COS-SOC 0(0,8)

SYO 3000 COS-SOC 3(3,0)

SYO 3360 COS-SOC 3(3,0)
Social Organization and Human Relations: Analysis of business, government, and industrial organizations. Topics include organizational theory, social systems, social structure, effects of technology, motivation, leadership, decision-making, and human relations. Occasional.

SYO 3410 COS-SOC 3(3,0)
Sociology of Mental Illness: A sociological examination of mental illness as a social problem; legal aspects of mental illness, and the mental health professions. Occasional.

SYO 3530 COS-SOC 3(3,0)
Social Stratification: PR: SYG 2000 or C.I. Study of class, status and power, cultural variations in stratification systems; patterns of mobility and change. Occasional.

SYO 4100 COS-SOC 3(3,0)
Family Trends: PR: SYG 2000 or SYG 2010 or C.I. Intimate relationships, practices, trends and issues affecting today's marriages and families. Fall, Spring.
UCF Courses and Descriptions

SYO 4200 COS-SOC 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. Occasional.

SYO 4250 COS-SOC 3(3.0)
Sociology of Education: PR: SYG 2000 or C.I. This course examines the sociological dimensions of the educational institutions, including the impact of the social structure on learning and the role of education in social change. Occasional.

SYO 4300 COS-SOC 3(3.0)
Political Sociology: Sociological analysis of political and parapolitical groups; socioeconomic variable of voting behavior, power elites; societies and systems of government. Occasional.

SYO 4400 COS-SOC 3(3.0)
Medical Sociology: Analysis of patient beliefs and behavior, health practitioners, the social organization of hospitals and health services, contemporary problems in the delivery of health care. Occasional.

SYP 3300 COS-SOC 3(3.0)
Collective Behavior: PR: SYG 2000 or C.I. Analysis of relatively unstructured social situations, such as mobs, crowds, etc. as well as more structured forms of collective behavior such as social movements. Occasional.

SYP 3400 COS-SOC 3(3.0)

SYP 3510 COS-SOC 3(3.0)
Sociology of Deviant Behavior: PR: SYG 2000 or SYG 2010 or C.I. Sociological examination of the types of, and societal reactions to, deviant behavior with special emphasis on stigmatization. Spring.

SYP 3511 COS-SOC 3(3.0)
Sociology of Murder: PR: SYG 2000 or SYG 2010 or C.I. An analytical study of murder in the U.S.; topics include different types of homicides, offenders, victims, and circumstances. Fall.

SYP 3520 COS-SOC 3(3.0)

SYP 3530 COS-SOC 3(3.0)
Juvenile Delinquency: Types of delinquency behavior found among juveniles; possible causes and ways society attempts to treat the various forms of delinquency. Occasional.

SYP 3540 COS-SOC 3(3.0)

SYP 3551 COS-SOC 3(3.0)
Sociology of Alcoholism: Introduction to the nature of alcoholism and review of its impact on society. Occasional.

SYP 3562 COS-SOC 3(3.0)
Sociological Perspectives on Domestic Violence: PR: SYG 2000 or C.I. An exploration of the sociological dimensions of all forms of domestic violence, including theoretical explanations, prevalence, risk factors, dynamics of prevention, and intervention. Occasional.

SYP 3602 COS-SOC 3(3.0)
Sociology of Popular Music: PR: SYG 2000 or SYG 2010 or C.I. The role of popular music in social change and in reflecting American culture. Consideration is given to the nature of the popular music business. Occasional.

SYP 3630 COS-SOC 3(3.0)
Sociology of Popular Culture: PR: Junior Standing or C.I. Examines the relationship between contemporary popular culture and social institutions, collective identities, social change, gender, ethnicity and age. Occasional.

SYP 3650 COS-SOC 3(3.0)
Sociology and Sport: PR: SYG 2000 or SYG 2010 or C.I. Utilization of sociological concepts and theories to investigate sport as a social institution. Includes subjects of racism, sexism, drug abuse, violence, and current issues of sport. Occasional.

SYP 4000 COS-SOC 3(3.0)

SYP 4004 COS-SOC 3(3.0)
Constructing Social Issues: PR: SYG 2000 or SYG 2010 or C.I. Sociological examination of social problems as an emergent process that involves collective definitions and legitimating organizations. Topics include deviance, race, gender and popular culture. Occasional.

SYP 4304 COS-SOC 3(3.0)
Social Movements and Revolutions: PR: SYG 2000 or C.I. Comparative sociology of revolutions and the sociological research on social movements. Occasional.

SYP 4454 COS-SOC 3(3.0)

SYP 4514 COS-SOC 3(3.0)

SYP 4521 COS-SOC 3(3.0)
Criminal Victimization in Society: PR: SYG 2000, or SYG 2010 or C.I. Crime victims in society; topics include issues related to victimology such as victimization risks and societal treatment of victims. Occasional.

SYP 4536 COS-SOC 3(3.0)
Gangs and Society: PR: SYG 2000 or SYG 2010 or C.I. Gangs in the U.S.; topics include types of gangs, gang members, activities, group processes, and societal responses to gangs. Occasional.

SYP 4550 COS-SOC 3(3.0)

SYP 4730 COS-SOC 3(3.0)

SYP 4732 COS-SOC 3(3.0)
Minority Aging: PR: SYG 2000 or SYG 3700 or SYG 4730 or C.I. A sociological examination of older populations with-in minorities: ethnic minorities, women, and gay men and lesbians. Occasional.

SYP 5005 COS-SOC 3(3.0)
Sociological Social Psychology: PR: Graduate standing or C.I. An exploration of sociological social psychological theories and their application in understanding the effectiveness of society and groups on the individual. Occasional.

SYP 5525 COS-SOC 3(3.0)
Sociological Criminology: PR: Graduate standing or C.I. To examine current sociological knowledge and research on various issues in Criminology, and to further students' skills in developing/conducting research projects. Occasional.

SYP 5566 COS-SOC 3(3.0)
Seminar on Domestic Violence: Theory, Research and Social Policy: PR: Graduate standing or senior standing or C.I. A sociological examination and evaluation of theories, empirical research and social policy related to the study of domestic violence. Occasional.

SYP 5615 COS-SOC 3(3.0)
Sociology of Culture: PR: Graduate standing or C.I. Major theoretical approaches and empirical studies in the sociology of culture and analysis of cultural processes. Occasional.

SYP 5738 COS-SOC 3(3.0)

TAX 4001 BA-ACCT 3(3.0)
Taxation of Business Entities and Transactions: PR: Junior standing plus completion of ACG 2101 and ACG 2071 with a grade of “C” or higher. Federal income tax laws affecting the taxation of business entities and transactions. Fall, Spring.

TAX 5015 BA-ACCT 3(3.0)
Advanced Tax Topics: PR: Accounting major or minor, TAX 4001 or equivalent. Advanced tax issues affecting individuals and business entities, including corporations and partnerships. Fall, Spring.

THE 2000 CAH-THEA 3(3.0)
Theatre Survey: Overview of the art and craft of the theatre. Restricted to non majors. Fall, Spring.

THE 2000H CAH-THEA 3(3.0)

THE 2020 CAH-THEA 3(3.0)
Survey of Theatre for Majors: PR: Theatre major or minor. Overview of the art and craft of theatre. Fall.

THE 2025 CAH-THEA 3(3.0)

THE 2050 CAH-THEA 3(3.0)
Theatre Studies in Creative Drama: PR: Theatre major or minor. Techniques and theories for facilitating creative drama with youth, as both an art form and teaching tool. Occasional.

THE 2090L CAH-THEA 1(0,VAR)
Theatre Participation-Management I: PR: Theatre major or minor. Participation in UCF Theatre productions. May be used in the degree program a maximum of 8 times. Fall, Spring.

THE 2304 CAH-THEA 3(3.0)
Script Analysis: PR: Theatre major or minor. Exploration of dramatic form with focus on playscripts for productions. Fall, Spring.

THE 2925L CAH-THEA 0(0,VAR)
Theatre Participation: PR: Theatre major or minor. Participation in UCF Theatre productions. May be used in the degree program a maximum of 8 times. Graded S/U. Fall, Spring.
Musical Theatre from the Ancient Greeks through the present. Course will emphasize the work of composers, librettists, and lyricists as well as representative masterworks of a variety of genres. Emphasis will be placed upon historical and theatrical viability. Occasional.

Musical Theatre History I: PR: BFA Musical Theatre major, C (2.0) or better required in THE 4244. Origins and evolution of Musical Theatre from the 1950s through the present. Spring.

Musical Theatre History II: PR: BFA Musical Theatre major, C (2.0) or better required in THE 4244. Origins and evolution of Musical Theatre from the 1950s through the present. Spring.

Costume, Architecture, Decor History I: PR: C (2.0) or better in TPA 2000. Costumes, architecture, and decor from antiquity to the High Renaissance. Fall.

Costume, Architecture, Decor History II: PR: C (2.0) or better in THE 4284. Costumes, furniture and decor from the Renaissance to the present. Spring.

Musical Theatre in History: PR: Admission to MFA Musical Theatre Program. A chronological study of musical theatre from early Viennese operetta to the musicals of the modern age. Course will emphasize the work of composers, librettists, and lyricists as well as representative masterworks of a variety of genres. Emphasis will be placed upon historical and theatrical viability. Fall.

Musical Theatre History: PR: Grade of C (2.0) or better in THE 2020 or THE 2000. Participation in theatre arts from prehistory through the 17th century. Occasional.


Global Theatre: PR: Grade of C (2.0) or better in THE 2020 or THE 2000. Theatrical arts and traditions of various countries with an emphasis on non-western cultures. Occasional.

Cultural Diversity in Theatre: PR: C (2.0) or better in THE 2020 or THE 2000. Commonality of human experience among various cultural groups through the study of dramatic literature. Occasional.

Musical Theatre Survey: PR: Grade of C (2.0) or better in THE 2020 or THE 2000. Origins and evolution of Musical Theatre from the Ancient Greeks through the present day. Occasional.

Period Props and Furniture: PR: THE 3115. Theatrical arts and traditions of various countries with an emphasis on non-western cultures. Occasional.


Theatre History II: PR: THE 3110. Restricted to Theatre majors or departmental consent. Occasional.


Period Costumes, Architecture and Decor I: PR: Admission into Theatre MFA Design Track. Costumes, architecture and decor from antiquity to the Renaissance. Fall.


Dramatic Literature for Children: PR: Admission to MFA graduate program or C.I. An in-depth study of the growth and development of dramatic literature for children. Even Fall.

Research Methods in Theatre: PR: MFA and MA in Theatre. Practices, knowledge, skills and techniques needed by students to conduct research to include organization, styles, footnotes, and bibliographic forms. Fall.

Musical Theatre Lab: PR: TPF 5157C. Practical course in developing musical theatre skills for the actor. Spring.

Technical Theatre Production Lab: PR: or CR: "C" (2.0) or better in TPA 2210L. Handcrafting, properties design, and construction. Spring.

Stagecraft II: PR: "C" (2.0) or better in TPA 2210 and TPA 2211L. Development, theory and practice of all areas of technical theatre production. Fall.

Stagecraft I: PR: BFA DesignTech or Stage Management. Introduction to design for the stage, including scenery, lighting, costumes and sound. Occasional.

Theatre Rendering: PR: "C" (2.0) or better in TPA 2000. Specific rendering techniques used to create visual images for scenic, lighting, and costume designers. Spring.

Technical Theatre Production: PR: B.A. Theatre, B.F.A. Musical TheatreActing major or minor, PR: "C" (2.0) or better in THE 2020 or THE 2000; CR: TPA 2201L. Development, theory and practice of all areas of technical theatre production. Fall, Spring.


Stagecraft II: PR: "C" (2.0) or better in TPA 2210 and TPA 2211L. Handcrafting, properties design, and construction. Spring.

Stagecraft I: PR: BFA DesignTech or Stage Management. Introduction to design for the stage, including scenery, lighting equipment and sound equipment. Fall.

Costume Construction: PR: THE 2020 or THE 2000; and BFA Design and Technology or Stage Management major. Lecture/lab study of the basic techniques used in the construction of stage costumes. Spring. M&S fee: $15.00.

Theatre Participation-Production I: PR: Theatre major or minor. Participation in UCF Theatre productions. May be used in the degree program a maximum of 8 times. Fall, Spring.

Theatre Participation-Production II: PR: Theatre major or minor. Participation in UCF Theatre productions. May be used in the degree program a maximum of 8 times. Fall, Spring. M&S fee: $15.00.

Stage Management Basics: PR: "C" (2.0) or better in the THE 2020 or THE 2000 and BFA Stage Management major. Functions and responsibilities of professional stage managers. Occasional.
TPA 3040C CAH-THEA 3(2,2)  
Costume Design for Theatre I: PR: "C" (2.0) or better in TPA 2010C. Projects in the fundamentals of costume design for the stage. Fall.

TPA 3060C CAH-THEA 3(2,2)  
Scenic Design for Theatre I: PR: "C" (2.0) or better in TPA 2010C. Projects in the fundamentals of scenic design for the stage. Fall.

TPA 3077C CAH-THEA 3(2,2)  
Scene Painting: PR: "C" (2.0) or better in TPA 2000C and TPA 2071C. Projects in scene painting techniques. Fall. M&S fee: $15.00

TPA 3195L CAH-THEA 3(0,VAR)  
Summer Theatre Studio/Studio/Design I: PR: Departmental consent by audition or interview. Study, analysis and execution of technical/design aspects for playscripts produced on UCF mainstage. May be repeated for credit. Occasional. M&S fee: $20.00

TPA 3212C CAH-THEA 3(2,2)  
Lighting Design for Theatre I: PR: "C" (2.0) or better in TPA 2010C and TPA 2220C. Projects in the fundamentals of lighting design for the stage. Spring.

TPA 3249C CAH-THEA 2(2,2)  
Advanced Makeup Techniques: PR: "C" (2.0) or better in TPA 2248C. Lecture/laboratory study of basic techniques needed for the creation of stage and film prosthetics and masks. Occasional. M&S fee: $15.00

TPA 3260C CAH-THEA 3(2,2)  
Sound Design for Theatre I: PR: "C" (2.0) or better in TPA 2010C and TPA 2220C. Projects in the fundamentals of sound design for the stage. Spring.

TPA 3333C CAH-THEA 2(2,4)  
Topics in Technical Theatre: PR: TPA 2220C. Techniques used in the production of scenery or costumes for the stage. Variable Topics. May be used in the degree program a maximum of 5 times. Occasional. M&S fee: $35.00

TPA 3601 CAH-THEA 3(3,0)  
Stage Management: PR: "C" (2.0) or better in TPA 2600. Responsibilities of the stage manager prior to, during, and after performance as related to Departmental productions as well as professional union requirements. Fall.

TPA 4041C CAH-THEA 3(2,2)  
Costume Design for Theatre II: PR: "C" (2.0) or better in TPA 3040C. A continuation of TPA 3040C. Spring.

TPA 4061C CAH-THEA 3(2,2)  
Scene Design for Theatre II: PR: "C" (2.0) or better in TPA 3060C. Project scenic design work with an emphasis on design visualization, communication and professional standards and practices. Spring.

TPA 4224C CAH-THEA 3(2,2)  
Lighting Design for Theatre II: PR: "C" (2.0) or better in TPA 3221C. Project lighting design work with an emphasis on visualization of design concepts, professional graphics, and paperwork standards and practices. Occasional.

TPA 4250C CAH-THEA 2(2,2)  
CADD for Theatre: PR: "C" (2.0) or better in TPA 2211 and TPA 2221L. Computer-aided drafting and design and its application for Theatre. Fall. M&S fee: $23.00

TPA 4251C CAH-THEA 2(2,2)  
Advanced CADD for Theatre: PR: "C" (2.0) or better in TPA 4250C. Advanced computer-aided drafting and design and its application for Theatre. Spring. M&S fee: $38.75

TPA 4264C CAH-THEA 3(2,2)  
Sound Design for Theatre II: PR: "C" (2.0) or better in TPA 3260C. Project sound design work with an emphasis on design communication and professional standards and practices. Occasional.

TPA 4293L CAH-THEA 1(0,VAR)  
Theatre Participation/Production I: PR: "C" (2.0) or better in TPA 2290L. Participation in UCF Theatre Productions. May be used in the degree program a maximum of 8 times. Fall. Spring. M&S fee: $15.00

TPA 4384C CAH-THEA 3(3,4)  
Advanced Techniques in Technical Theatre: PR: C (2.0) in TPA 2210 and TPA 2211L. Variable topics which may include Technical Direction or other advanced topics. May be used in the degree program a maximum of 4 times. Occasional. M&S fee: $35.00

TPA 4400 CAH-THEA 3(3,0)  
Theatre Management: PR: "B" (2.0) or better in THE 2000 or THE 2020. 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. Fall.

TPA 4401 CAH-THEA 3(3,0)  
Theatre Careers in Production: PR: B.F.A. Design/Technology or Stage Management; Junior standing. Techniques to secure employment in technical theatre, design, and stage management. Spring.

TPA 4602 CAH-THEA 3(3,0)  
Advanced Stage Management: PR: B.F.A. Stage Management major, C (2.0) or better required in TPA 3601. Skills necessary for stage managers in contemporary entertainment. Fall.

TPA 4940 CAH-THEA 6(0,40)  

TPA 5042C CAH-THEA 3(3,0)  
Costume Design Studio: PR: Admission into the graduate program, TPA 3043C, TPA 3044C, or C.I. Project oriented course in the advance study of Costume Design. Occasional.

TPA 5062C CAH-THEA 3(2,2)  
Scene Design Studio: PR: Graduate status or C.I. Advanced work in the conceptualization and communication of scenic designs for the theatre. Spring.

TPA 5081 CAH-THEA 3(3,0)  
Design Concepts for Youth Theatre: PR: Admission to MFA graduate program or C.I. A study of design elements (lighting, costume, set) as they apply to youth theatre. Odd SPRING.

TPA 5085C CAH-THEA 2(2,2)  

TPA 5095 CAH-THEA 1(1,0)  
Rendering for Theatre I: PR: Admission to Theatre MFA Design Track. Traditional visual communication skills necessary for scenic, costume, and lighting design. Occasional.

TPA 5175 CAH-THEA 1(1,0)  

TPA 5345C CAH-THEA 2(2,2)  
2D Computer Assisted Design for Theatre: PR: Admission into the Theatre MFA Design Track. Two-dimensional computer drafting and editing techniques applicable to theatre design. Occasional.

TPA 5347C CAH-THEA 2(2,2)  
3D Modeling for Theatre: PR: TPA 5345C. Three-dimensional computer modeling and editing techniques applicable to theatre design. Occasional.

TPA 5405 CAH-THEA 3(3,0)  
Theatre Management for Non-Majors: PR: THE 2020 or THE 2000, graduate status, or C.I. Study of university/community and professional theatre management with special attention to the principles of management to include management skills/function and organizational systems/performance as they relate to theatre organizations/institutions.

TPA 5885C CAH-THEA 2(2,2)  
Puppetry: PR: Admission to MFA graduate program or C.I. Puppetry as an art form in design and performance. Odd Spring. M&S fee: $30.00

TPA 5946C CAH-THEA 1(0,20)  
Design Practicum I: PR: Admission into the MFA Design Program. Practical Experience as a member of the production team as a prop master or assistant scenic, costume, lighting, or sound designer. Occasional.

TPA 5949C CAH-THEA 1(0,20)  
Design Practicum II: PR: Admission into the graduate program and TPA 5946C or C.I. Advanced work in the practical application of Properties and/or Design for the Theatre. Occasional.

TPP 2101 CAH-THEA 3(3,0)  
Fundamentals of Acting: PR: B.A. Theatre Major or minor, and C (2.0) or better in THE 2000 or THE 2020. Development of imagination, self-awareness and the ability to execute basic stage tasks. Fall, Spring.

TPP 2110C CAH-THEA 3(2,2)  
Acting I - Introduction: PR: B.F.A. Theatre major, C (2.0) or better required in THE 2020 or THE 2000. Development of imagination, self-awareness, and the ability to execute basic stage tasks. Fall, Spring.

TPP 2170C CAH-THEA 3(2,2)  
Acting II - The Actor Prepares: PR: "C" (2.0) or better in TPP 2110C. Fundamental techniques to acting, with emphasis on characterization and character development. Fall, Spring.

TPP 2185 CAH-THEA 3(3,0)  
Acting for Non-majors: Introduction to the fundamentals of acting. Fall, Spring.

TPP 2190L CAH-THEA 1(0,VAR)  
Theatre Participation/Performance I: PR: Theatre major or minor or department consent. Participation in UCF Theatre productions. May be repeated for credit 8 times. Fall, Spring. M&S fee: $15.00

TPP 2260 CAH-FILM 3(3,0)  
Acting for Film: PR: Film Majors. An introduction to acting for the camera. Occasional.

TPP 2700C CAH-THEA 3(2,2)  
Stage Speech/Voice: PR: BA Theatre major or minor and C (2.0) or better in THE 2000 or THE 2020. Practical stage voice as it applies to performance. Credit cannot be applied towards BFA acting and musical theatre majors. Fall.

TPP 2710C CAH-THEA 2(2,1)  
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>TPP 3103</td>
<td>CAH-THEA 3</td>
<td>(3,0)</td>
<td>Intermediate Acting: PR: B.A. Theatre major or minor and C (2.0) or better in TPP 2101. Practice and execution of scene work, monologue work, and exercises. Occasional.</td>
</tr>
<tr>
<td>TPP 3172C</td>
<td>CAH-THEA 3</td>
<td>(2,2)</td>
<td>Acting III - Building the Character: PR: Grade of C (2.0) or better required in TPP 2170C. Reinforcement of acting techniques begun in Acting II, with emphasis on characterization and character development. Spring.</td>
</tr>
<tr>
<td>TPP 3197L</td>
<td>CAH-THEA 3</td>
<td>(0,VAR)</td>
<td>Summer Theatre/Performance: PR: Audition/interview or departmental consent. Production assignments and responsibilities during the rehersals/performances of play scripts produced on the UCF mainstage. May be used in the degree program a maximum of 8 times. Occasional. M&amp;S fee: $20.00</td>
</tr>
<tr>
<td>TPP 3250</td>
<td>CAH-THEA 3</td>
<td>(3,0)</td>
<td>Musical Theatre Acting I: PR: B.F.A. Musical Theatre major, and C (2.0) or better required in TPP 3210C. Practical acting techniques with solo musical theatre repertoire. Fall.</td>
</tr>
<tr>
<td>TPP 3252</td>
<td>CAH-THEA 3</td>
<td>(3,0)</td>
<td>Musical Theatre Acting II: PR: B.F.A. Musical Theatre major, and C (2.0) or better in TPP 3250. Practical acting technique as it applies to musical theatre scene study. Spring.</td>
</tr>
<tr>
<td>TPP 3257C</td>
<td>CAH-THEA 2</td>
<td>(2,2)</td>
<td>Musical Theatre Voice I: PR: B.F.A. Musical Theatre major, and C (2.0) or better in TPP 3250. Craft of singing including anatomy, physiology, and diction utilizing musical theatre repertoire. Spring.</td>
</tr>
<tr>
<td>TPP 3264C</td>
<td>CAH-THEA 3</td>
<td>(3,2)</td>
<td>Acting on Camera: PR: Theatre major; C (2.0) or better in TPP 2101, TPP 3103, and THE 2020. Preparing the actor for professional work in the TV/Film industry. Occasional.</td>
</tr>
<tr>
<td>TPP 3310C</td>
<td>CAH-THEA 3</td>
<td>(2,2)</td>
<td>Directing for Theatre I: PR: Theatre majors, Junior Standing, and C (2.0) or better required in THE 3312. Principles and techniques of play direction to include script selection, dramatic analysis, casting, composition/main character, blocking, tempo, and rehearsal planning. Fall, Spring.</td>
</tr>
<tr>
<td>TPP 3510C</td>
<td>CAH-THEA 2</td>
<td>(2,1)</td>
<td>Movement for the Actor I: PR: BFA Acting Major. Physical exploration of relaxation, release, and strengthening exercises designed to help the actor develop a more expressive body. Fall.</td>
</tr>
<tr>
<td>TPP 3512C</td>
<td>CAH-THEA 2</td>
<td>(2,1)</td>
<td>Stage Combat: PR: Grade of C (2.0) or better required in TPP 4510C. Stage combat with emphasis on hand-to-hand combat. Spring.</td>
</tr>
<tr>
<td>TPP 3513C</td>
<td>CAH-THEA 2</td>
<td>(2,1)</td>
<td>Movement for the Actor II: PR: C (2.0) or better in TPP 3510C. Reinforcement of the techniques of TPP 3510C. Fall.</td>
</tr>
<tr>
<td>TPP 3711C</td>
<td>CAH-THEA 2</td>
<td>(2,1)</td>
<td>Voice Production II: PR: C (2.0) or better in TPP 2710C. Reinforces stage voice awareness introduced in TPP 2710C, focusing on a physical approach to acting texts. Spring.</td>
</tr>
<tr>
<td>TPP 3712C</td>
<td>CAH-THEA 2</td>
<td>(2,1)</td>
<td>Voice Production III: PR: C (2.0) or better in TPP 3711C. Emphasis on study of Shakespearean and heightened language. Fall.</td>
</tr>
<tr>
<td>TPP 3730C</td>
<td>CAH-THEA 2</td>
<td>(2,1)</td>
<td>Voice Production IV: PR: Grade of C (2.0) or better required in TPP 3712C. Analysis of dialects and regions, reinforcing the study of phonetics, placement, and vocal apparatus. Fall.</td>
</tr>
</tbody>
</table>
| TPP 3952L   | CAH-THEA 3| (0,VAR) | Summer Studio Production: PR: Audition/interview or departmental consent. Participation in UCF Theatre productions. May be used in the degree program a maximum of 8 times. Occasional. │
TPP 5515 CAH-THEA 2(2,0)
Movement Studio I: PR: Admission to MFA Performance Program. Graduate level course in principles and methods of movement for the stage focusing on relaxation, centering, increased physical control, and physical development of a character. Fall.

TPP 5516C CAH-THEA 2(2,1)
Movement Studio II: PR: TPP 5515 or C.I. Principles and methods of movement for the stage focusing on gaining specific knowledge and skills in period styles of movement and basic unarmed combat. Spring.

TPP 5554C CAH-THEA 2(2,4)
Musical Theatre Dance I: PR: MFA Musical Theatre Majors. Advanced dance study with particular emphasis on the development of principles of alignment, coordination, isolation, and sequencing. Fall.

TPP 5555C CAH-THEA 2(2,4)
Musical Theatre Dance II: PR: TPP 5554C. Advanced dance study with particular emphasis on the development and expression of characterization in dance. Spring.

TPP 5715C CAH-THEA 2(2,1)
Stage Voice I: PR: Admission to MFA performance program. An introduction/review class examining the fundamentals of speaking on stage: the correct production of sound, breathing, relaxation of physical tension, and articulation. Fall.

TPP 5716C CAH-THEA 2(2,1)
Stage Voice II: PR: Admission to the MFA Performance Program and TPP 5715C or C.I. Continuation of Graduate Voice Production I studying Skinner’s narrow transcription with consonants, review of all Linklater work, and introduction to the work of Arthur Lessac. Spring.

TPP 5754 CAH-THEA 2(2,0)
Musical Theatre Voice I: PR: Admission to MFA Musical Theatre Program. Voice study devoted to the diagnosis and development of the singing voice and its application to musical theatre performance, placing particular emphasis upon vocal technique. Fall.

TPP 5935C CAH-THEA 2(2,2)
Contemporary Practices in Youth Theatre: PR: Admission to MFA graduate program or C.I. Investigation of a particular subject in youth theatre. May be used in the degree program a maximum of 5 times. Odd Spring.

TSL 4080 ED-TLP 3(3,0)
Theory and Practice of Teaching ESOL Students in Schools: PR: Junior standing or C.I. Focuses on methods of teaching English to Speakers of Other Languages (ESOL). ESOL curriculum and materials, cross-cultural understanding, applied linguistics in second language teaching, and test and evaluation of ESOL. Fall, Spring.

TSL 4141 CAH-LANG 3(3,0)

TSL 5143 CAH-LANG 3(3,0)
ESOL Strategies: PR: Graduate status or senior standing or C.I. This course will survey cross-cultural communication and understanding, testing and evaluation, curriculum and methods of teaching ESOL to meet the needs of limited English proficient students. Occasional.

TSL 5245 CAH-LANG 3(3,0)
Computers and Technology for ESOL: PR: Graduate standing or C.I. Emphasizes research in computer assisted language learning, as well as design and evaluation of software and websites for learning English as a second language. Occasional.

TSL 5345 ED-TLP 3(3,0)
Methods of ESOL Teaching: This course is designed to develop understanding, knowledge and skills of the current methods used in the teaching of ESOL. Fall, Spring.

TSL 5373 ED-TLP 3(3,0)
Teaching Language Minority Students in K-12 Classrooms: PR: Admission to College of Education Master of Arts Program or C.I. Teaching K-12 Limited English proficient (LEP) students. Florida standards regarding cross-cultural communication, ESOL curriculum, and materials, ESOL methodology, testing and evaluation of ESOL students, applied linguistics. Fall, Spring.

TSL 5376 CAH-LANG 3(3,0)
Reading and writing in a second language: PR: Graduate standing or C.I. Theoretical and pedagogical approaches to ESOL reading and writing. Occasional.

TSL 5525 ED-TLP 3(3,0)
ESOL Cultural Diversity: This course is designed to identify major cultural groups represented by the LEP population in Florida schools and to understand their special needs. Occasional.

TSL 5940 CAH-LANG 3(3,0)
Issues in TEFL: PR: Graduate status or senior standing or C.I. Address issues specifically related to TEFL, such as materials adaptation, teaching in multi-level classrooms, learning styles, cultural issues, and curriculum syllabus design. Spring.

TTE 4004 ECS-CEE 4(4,0)
Transportation Engineering I: PR: SUR 2101C, EGN 4634, and STA 3032. Introduction of highway and transportation systems. Systems approach to planning, design, operation and administration of transportation networks. Fall, Spring.

TTE 4601C ECS-CEE 3(2,2)
Urban Systems Design: PR: TTE 4004. Project course on design of transportation and urban systems using engineering design methodologies. Spring. M&D fee: $15.00

TTE 5204 ECS-CEE 3(3,0)
Traffic Engineering: PR: TTE 4004. Study of operator and vehicle characteristics, and design for street capacity, signs, signs, and markings. Occasional.

TTE 5700 ECS-CEE 3(3,0)

TTE 5805 ECS-CEE 3(3,0)
Geometric Design of Transportation Systems: PR: TTE 4004 or C.I. Study of highway geometric design in the engineering of transportation systems. Occasional.

TTE 5835 ECS-CEE 3(3,0)
Pavement Design: PR: CEG 011C. Pavement types, wheel loads, stresses in pavement components; design factors such as traffic configurations, environment, and economy. Occasional.

VIC 3001 COS-COMM 3(3,0)

WOH 2012 CAH-HIST 3(3,0)
World Civilization I: An topical approach to the study of the rise and decline of world civilizations from the first attempts to the great civilizations of medieval times. Fall, Spring.

WOH 2012H CAH-HIST 3(3,0)
World Civilization I - Honors: PR: Permission of Honors. The rise and decline of world civilizations from antiquity to the great civilizations of medieval times. Honors content. Occasional.

WOH 2022 CAH-HIST 3(3,0)
World Civilization II: Rise of modern civilization from 1500 to the present, with an emphasis on the confrontation between the Western and non-Western spheres of civilization. Fall, Spring.

WOH 2022H CAH-HIST 3(3,0)
World Civilization II - Honors: PR: Permission of Honors. 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. Occasional.

WST 3015 CAH-ENG 3(3,0)
Introduction to Women’s Studies: PR: ENC 1102 or C.I. Interdisciplinary course introducing students to key issues and problems regarding women and gender relations in past and present societies. Fall, Spring.

WST 3015H CAH-WOM 3(3,0)
Honors Introduction to Women’s Studies: PR: ENC 1102 and Consent of Honors. Focus on women and gender in a transnational context. With Honors content. Even Spring.

WST 3460 CAH-WOM 3(3,0)
Womanist Studies: PR: ENC 1102 or C.I. Interdisciplinary study of issues, perspectives, and scholarship by and about women of color. Occasional.

WST 3460H CAH-WOM 3(3,0)

WST 3500 CAH-WOM 3(3,0)
Gender Issues and Community Activism: PR: WST 3015 or C.I. Feminist perspectives applied to current community issues, interdisciplinary analysis through service learning and field research. Issues will vary. May be repeated for credit. Occasional.

WST 3561 CAH-WOM 3(3,0)
Third Wave Feminisms: PR: WST 3015. Third wave feminist theories and practices with an activist focus. Even Spring.

WST 4002 CAH-WOM 1(1,0)
Researching Women and Gender: PR: WST 3015 or C.I. Introduces students to scholars and research in a variety of areas pertaining to the study of women and gender relations. Occasional.

WST 5347 CAH-WOM 3(3,0)
Research Seminar in Gender Studies: PR: Graduate status or senior standing or C.I. Research seminar exploring relationships among feminist theorizing, research, and social change, the development of gender studies programs and their relationships to other academic disciplines. Occasional.

WST 5601 CAH-WOM 3(3,0)
Theories in Gender Studies: PR: Graduate standing, Gender Studies graduate certificate standing, or C.I. Foundational scholarship in gender studies, with emphasis on theoretical and interdisciplinary approaches to gender and sexuality. Even Fall.

ZOO 3701C BCBS-M&M 3(1,4)
Human Gross Anatomy & Dissection Techniques: PR: ZOO 3733C. Dissection techniques of the human body to teach students the skills required for the preparation of three dimensional materials (specimens). The primary student population should be junior/senior pre health professional applicants preparing for the basic medical sciences of professional schools. Spring. M&D fee: $15.00
ZOO 3733C COS-BIOL 5(3,6) Comparative Vertebrate Anatomy: PR: BSC 2010C and BSC 2011C or C.I. The vertebrate animals, relationships of organs and systems, and their phylogenetic significance. Fall. M&S fee: $35.00


ZOO 3733H BCBS-M&M 4(3,3) Honors Human Anatomy: PR: BSC 2010C or equivalent and Consent of Honors. Basic and functional anatomy in clinically oriented way to study systems within the human body. The lab component of this honors course provides enrichment and an opportunity to view cadaver specimens. With Honors Consent. Spring.

ZOO 3736C BCBS-M&M 4(3,2) Exercise Physiology Anatom: PR: BSC 2010C, CI. Gross anatomy for exercise physiology majors. Fall, Spring. M&S fee: $15.00

ZOO 3744 BCBS-M&M 3(3,0) Neurobiology: PR: BSC 2010C. Biological principles governing the physiology of the nervous system including electrical properties, chemical signaling, cellular composition, development, injury and regeneration. Fall, Spring.


ZOO 4513 COS-BIOL 3(3,0) Animal Behavior: PR: PCB 3044. Study of the current ideas in animal behavior, including the mechanism of behavior and evolutionary explanations. Odd Fall.
ABBAS, HADI, Assistant Professor of Art  

ABDALLAH, NAZH, Lecturer of Electrical Engineering and Computer Science  
(2005), Ph.D. (University of Paris)  

ABDEL-ATY, MOHAMED, Professor of Engineering  
(1995), B.S.C.E., M.S.C.E., Ph.D. (University of California at Davis), P.E. (Florida)  

ABEL, EILEEN M., Associate Professor of Social Work  
(1978), A.B., M.S.W., Ph.D. (Case Western Reserve University)  

ABRAMA, CHARLIE, Associate Professor of Art  

ACCARDI, MARY, Instructor of Education  
(2006)  

ADAMS, CAROLE, Associate Professor of History  
(1993), B.A., M.A., Ph.D. (Harvard University)  

ADAMS, KENNETH, Professor of Public Affairs  
(2003), Ph.D (State University of New York at Albany)  

AHERN, NANCY, Visiting Instructor, School of Nursing  
(2004), R.N., M.S.N. (University of Delaware)  

AJAYI, RICHARD A., Associate Professor of Finance  
(1996), B.Sc., M.B.A., Ph.D. (Temple University)  

AKITA, KIMIKO, Assistant Professor of Communication  
(2005), B.A., M.A., Ph.D. (Ohio University)  

AL-DEEK, HAITHAM, Professor of Engineering  
(1992), B.C.E., M.S., Ph.D. (University of California at Berkeley), P.E. (Florida)  

ALBERS-BIDDLE, JUNIE, Instructor of Education  
(2001), B.A., M.A. (University of Central Florida)  

ALDERMAN, BARBARA, Assistant Librarian  
(2002), B.A., M.S. (Florida State University)  

ALI, TARIG, Assistant Professor of Engineering Technology  
(2006), B.S., M.S., Ph.D. (Ohio State University)  

ALLEN, FRANK R., Associate Director for Administrative Services  

ALLEN, JEFFERY W., Associate Professor of Marketing  
(1990), B.S., M.B.A., D.B.A. (University of Kentucky)  

ALLEN, KAY WILLIAMSON, Associate Professor of Education  
(1999), B.S., M.Ed., Ph.D. (University of South Carolina)  

ALLGOOD, JANE, Graduate Coordinator and Assistant Professor of Social Work  
(2002), B.A., M.S.W., Ph.D. (Florida State University)  

ALMEIDA, JOHN A., Associate Professor of Music  
(1997), B.M., M.A. (Appalachian State University)  

ALRUTZ, MEGAN, Assistant Professor of Theatre  
(2004), B.F.A., Ph.D. (Arizona State University)  

ALVAREZ, DIANE E., Assistant Professor of Education  
(2003), B.A., M.A., M.Ed. (University of California)  

AMBROSE, MAUREEN L., Professor of Management  
(1999), B.A., M.A., Ph.D. (University of Illinois at Urbana-Champaign)  

AN, LINAN, Assistant Professor of Education  
(2001), Ph.D. (Lehigh University)  

ANDREASEN, JANET, Visiting Assistant Professor of Education  
(2005), B.S., M.A., Ed.D. (University of Central Florida)  

ANDREWS, DIANE, Assistant Professor  
(2007), R.N., Ph.D. (University of Central Florida)  

ANGELOPOULOS, THEODORE, Professor of Health Sciences  
(1998), B.S., M.S., Ph.D. (University of Pittsburgh)  

ANGLEY, PATRICIA, Instructor of English  
(1998), B.A., M.A., Ph.D. (University of Hawaii)  

ANTHONY, JOBY M., Associate Professor of Mathematics  
(1970), B.S., M.A.M., Ph.D. (North Carolina State University)  

ANTON, WILMA, Assistant Professor of Economics  
(2001), B.S., M.S., ABD (University of Illinois)  

APPLEGATE, BRANDON, Associate Professor of Criminal Justice  
(1996), B.S., M.S., Ph.D. (University of Cincinnati)  

APPLEN, J.D., Associate Professor of English  
(1997), B.S., M.F.A., Ph.D. (University of Arizona)  

ARK, PAMELA, Assistant Professor  
(2004), R.N., Ph.D. (University of Tennessee, Memphis)  

ARTHUR, MICHAEL A., Head, Acquisitions & Collections and Assistant Librarian  
(2006), B.S., M.L.S., M.P.A. (Old Dominion University)  

ASHLEY, ROBERT A., Assistant Professor of Hospitality Management  
(1984), B.S., M.S. (Florida International University), C.E.C., C.C.E.  

ATKINS, TOM, Visiting Assistant Professor of Education  
(2006), B.M.E., M.S.E., Ph.D. (Louisiana State University)  

AZIMI, CYRUS, Instructor of Psychology  
(2006), B.S., M.A., Ph.D. (Michigan State University)  

BAGLEY, GEORGE M., Associate Director and Associate Professor of Communication  
(1994), B.A., M.A. (University of Utah)  

BAI, HAIYAN, Assistant Professor of Education  
(2006), B.A., M.A., Ph.D. (University of Cincinnati)  

BAILEY, CHARLES D., Professor of Accounting  

BAKER, BARRY B., Director, University Libraries  
(1997), B.A., M.L.S. (Louisiana State University)  

BAKER, JOSIAH R., Instructor of Economics  

BALADO, CARL, Associate Professor of Education  
(1987), B.A., M.S., Ed.D. (Florida Atlantic University)  

BALLANTYNE, JOHN, Associate Professor of Chemistry/Forensic Science  
(1998), B.S., M.S., Ph.D. (State University of New York at Stony Brook)  

BALTUNIS, CATHERINE, Visiting Instructor of Communication  
(2003), B.A., M.A. (University of Central Florida)  

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BARBER, SARAH, Assistant Professor of Anthropology  
(2007), Ph.D. (University of Colorado)  

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(1998), B.A., M.A., Ph.D. (Howard University)  

BARNES, BETH, Vice President and Chief of Staff, Office of the President, and Associate Professor of English  
(1968), B.A., M.A., Ph.D. (University of North Carolina at Chapel Hill)  

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(2006), B.A., M.A. (University of Notre Dame)  

BARRETT, AMY, Externship Coordinator and Instructor of Communication Sciences and Disorders  
(2004), B.S., M.A. (University of Central Florida)  

BARRIENTOS, CHRISTIAN, Visiting Instructor of Mathematics  
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BARRINGTON, BRUCE, Associate Professor of Management  
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(1981), B.S., M.S., Ph.D. (Pennsylvania State University)  

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BATES, TODD, Visiting Instructor of Philosophy  
(2005), B.A., B.A., Ph.D. (University of Pennsylvania)  

Batzner, JAY, Assistant Professor of Music  

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(1970), B.S.I.E., M.S.E., Ph.D. (University of Florida), P.E. (Florida)  

BAUMBACH, DONNA J., Professor of Education  
(1978), B.S., M.S., Ed.D. (Indiana University)  

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(1996), B.S., Ph.D. (Syracuse University)  

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(2005), B.F.A., M.F.A. (University of California)  

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(1996), B.S., M.B.A. (University of Central Florida)  

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CHICUREL, STEVEN, Associate Professor of Theatre (2002), B.M., M.M., D.M.A. (University of Kentucky)
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CHOPRA, MANOJ, Associate Professor of Engineering and Trustee (1993), B.S., M.S., Ph.D. (State University of New York at Buffalo), P.E. (Florida)
CHOUHURY, SUDIPTO R., Professor of Mathematics (1990), B.S., M.S., Ph.D. (Cornell University)
CHOW, LEE, Professor of Physics (1983), B.S., Ph.D. (Clark University)
CHOW, LOUIS C., Professor of Mechanical, Materials, and Aerospace Engineering (1996), A.B., M.S., Ph.D. (University of California, Berkeley)
CHRISTODOLIDES, DEMETRIOS N., PREP Professor of Optics (2002), B.S., Ph.D. (John Hopkins University)
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CIRCLE, DARLENE, Instructor of Education (2001), B.S., M.S. (Nova Southeastern University)
CLARK, JAMES, Instructor of History (1986), B.A., M.A., Ph.D. (University of Florida)
CLARKE, THOMAS L., Associate Professor of Mathematics (2001), B.S., M.S., Ph.D. (University of Miami)
CLAUSEN, CHRISTIAN A., III, Professor of Chemistry (1968), B.S., Ph.D. (Louisiana State University)
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<thead>
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<th>Name</th>
<th>Title and Institution</th>
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</table>

**FACULTY AND ADMINISTRATION EREMITI**

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<tr>
<td>ABBOTT, DAVID W.</td>
<td>Professor Emeritus of Psychology (1968), B.A., M.S., Ph.D. (University of Massachusetts)</td>
</tr>
<tr>
<td>ACERNO, LOUIS J.</td>
<td>Professor Emeritus of Health Sciences (1979), B.S., M.D. (Georgetown University)</td>
</tr>
<tr>
<td>ADICKS, RICHARD R.</td>
<td>Professor Emeritus of English (1968), B.A.E., M.A., Ph.D. (Tulane University)</td>
</tr>
<tr>
<td>ANDERSON, BETTY</td>
<td>Professor Emeritus of Education (1968), B.A., M.A., Ed.D. (University of Maryland)</td>
</tr>
<tr>
<td>ANDERSON, HENRY R.</td>
<td>Professor Emeritus of Accounting (1983), B.A., M.S., Ph.D. (University of Missouri-Columbia)</td>
</tr>
<tr>
<td>ARMSTRONG, LEE H.</td>
<td>Professor Emeritus of Mathematics (1968), B.A., M.S., Ph.D. (Florida State University)</td>
</tr>
<tr>
<td>BAKER, GAREME L.</td>
<td>Professor Emeritus of Chemistry (1969), B.S., M.S., Ph.D. (Montana State University)</td>
</tr>
<tr>
<td>BANDY, DALTON D.</td>
<td>Chairholder, C.G. Avery Professorship, and Professor Emeritus of Accounting (1985), B.S., M.B.A., Ph.D. (University of Texas at Austin)</td>
</tr>
<tr>
<td>BARSCH, KARL-HEINRICH</td>
<td>Associate Professor Emeritus of French (1977), B.A., M.A., Ph.D. (University of Colorado)</td>
</tr>
<tr>
<td>BASS, MICHAEL</td>
<td>Professor Emeritus of Optics (1988), B.S., M.S., Ph.D. (University of Michigan)</td>
</tr>
<tr>
<td>BERGERN JR., JOHN F.</td>
<td>Professor Emeritus of Health Professions (1975), B.S., M.S.P.H., M.P.H., N.H.A., Ph.D. (University of Maryland)</td>
</tr>
<tr>
<td>BIEGEL, JOHN E.</td>
<td>Professor Emeritus of Engineering (1982), B.S.I.E., M.S.E., Ph.D. (Syracuse University), P.E. (Florida)</td>
</tr>
<tr>
<td>BLACKWELL, CHRISTOPHER</td>
<td>Assistant Professor Emeritus (2004), A.R.N.P., Ph.D. (University of Central Florida)</td>
</tr>
<tr>
<td>BLEDSOE, ROBERT L.</td>
<td>Professor of Political Science (1966), B.A., M.A., Ph.D. (University of Florida)</td>
</tr>
<tr>
<td>BLOCK, DAVID L.</td>
<td>Director Emeritus, Florida Solar Energy Center and Professor Emeritus of Engineering (1968), B.S., M.S., Ph.D. (Virginia Polytechnic Institute), P.E. (Florida)</td>
</tr>
<tr>
<td>BOLTE, JOHN R.</td>
<td>Vice President Emeritus for Administration and Finance (1968), B.A., M.A., M.S., Ph.D. (State University of Iowa)</td>
</tr>
<tr>
<td>BRENNAN, JOHN J.</td>
<td>Professor Emeritus of Physics (1968), B.S., M.S., Ph.D. (Georgia Institute of Technology)</td>
</tr>
<tr>
<td>BROWN, WILLIAM R.</td>
<td>Professor Emeritus of Sociology (1965), B.A., M.A., Ed.D. (University of Maryland)</td>
</tr>
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</table>

**UNIVERSITY OF CENTRAL FLORIDA** 2007-2008 Undergraduate Catalog
(1972), B.S., M.S., Ph.D. (Purdue University)

BRUMBAUGH, DOUGLAS K., Professor Emeritus of Education (1969), B.S., M.Ed., Ed.D. (University of Georgia)

BURROUGHS, WAYNE A., Professor Emeritus of Psychology (1969), B.A., M.A., Ph.D. (University of Tennessee)

CALLARMAN, WILLIAM G., Associate Professor Emeritus of Management (1972), B.B.A., M.B.A., Ph.D. (Arizona State University)

CARROLL, WILLIAM F., Professor Emeritus of Engineering (1985), B.S., M.S., Ph.D. (University of Illinois), P.E. (California, Florida and Illinois)

COLBOURN, TREVOR, President Emeritus, Professor of History, and Special Assistant to the UCF Foundation Chief Executive Officer (1978), B.A., A.M., M.A., Ph.D. (Johns Hopkins University)

COMISH, NEWEL W., Professor Emeritus of Management (1968), B.S., M.S., Ph.D. (Ohio State University)

CORNELL, RICHARD, Professor Emeritus of Education (1968), B.S., M.S., Ed.D (Nova University)

CUNNINGHAM, GLENN N., Professor Emeritus of Chemistry (1969), B.S., M.S., Ph.D. (North Carolina State University)

DEL-rio, MARCELA, Professor Emeritus of Foreign Languages and Literatures (1990), B.A., M.A., Ph.D. (University of California-Irvine)

DENNING, RICHARD G., Professor Emeritus of Engineering Technology (1976), B.M.E., M.S., Ed.D. (University of Georgia), P.E. (Florida, Georgia)

DUTTON, ARTHUR M., Professor Emeritus of Statistics (1968), B.S., Ph.D. (Iowa State University)


EHRRART, LLEWELLYN M., Pegasus Professor and Professor Emeritus of Biology (1969), A.B., Ph.D. (Cornell University)

ELLIS, LESLIE L., Professor Emeritus of Biology (1968), B.S., M.S., Ph.D. (University of Oklahoma)

ENO, BURTON E., Professor Emeritus of Engineering (1979), B.S., M.S., Ph.D. (Cornell University), P.E. (Florida)

ESLER, WILLIAM K., Professor Emeritus of Education (1968), B.A.Ed., M.A.Ed., Ph.D. (Kent State University)

EVANS, THOMAS G., Professor Emeritus of Accounting (1990), B.S., M.B.A., Ph.D. (Michigan State University)


FLICK, ROBERT G., Professor Emeritus of Humanities (1969), B.S., M.A., Ph.D. (University of Florida)

GENNARO, ROBERT N., Associate Dean, Burnett College of Biomedical Sciences; Professor Emeritus of Molecular Biology and Microbiology (1970), Ph.D. (Texas A&M University)

GRIFFITH, HAROLD L., Professor Emeritus of Engineering Technology (1972), B.S., M.S. (Pennsylvania State University), P.E. (Florida)


HOSLER, E. RAMON, Professor Emeritus of Engineering (1978), B.Ch. E., M.S., Ph.D. (University of Illinois), P.E. (Florida)

HUDSON, PHYLLIS J., University Librarian Emeritus (1972), B.S., M.S.L.S. (University of Illinois)

HYNES, MICHAEL C., Professor Emeritus of Education (1971), B.S.Ed., M.Ed., Ph.D. (Kent State University)

INGRAM, DAVID B., Associate Professor Emeritus of Communication Sciences and Disorders (1974), B.A., M.A., Ph.D. (State University of New York at Buffalo)


JOHNSON, WILLIAM H., Professor Emeritus of Education (1986), B.S., M.Ed., Ph.D. (Kent State University)

JONES, HALSEY R., JR., Professor Emeritus of Management (1982), B.A., M.S., Ph.D. (Pennsylvania State University)

JUGE, FRANK E., Professor Emeritus of Chemistry (1969), B.S., Ph.D. (University of Arkansas)

KERSTEN, ROBERT D., Dean Emeritus and Professor Emeritus of Engineering (1968), B.S., M.S., Ph.D. (Northwestern University), P.E. (Florida, Arizona, and Oklahoma)

KOENING, JAMES L., Professor Emeritus of Biology (1971), B.A., M.A., Ph.D. (University of Iowa)

KUHN, DAVID T., Professor Emeritus of Biology (1970), B.A., M.S., Ph.D. (Arizona State University)


LIELE, STUART A., Associate Professor Emeritus of Political Science (1972), B.A., Ph.D. (Johns Hopkins University)

LLEWELLYN, RALPH A., Professor Emeritus of Physics (1980), B.S., Ph.D. (Purdue University)

LOTZ, THEO, Director of Art-In-State Program and Instructor (2004), B.A., M.F.A. (Louisiana State University)

MADSEN, BROOKS C., Professor Emeritus of Chemistry (1970), B.S., M.S., Ph.D. (Ohio State University)

MALONE, LINDA C., Professor Emeritus of Engineering Science (1979), B.S., M.S., Ph.D. (Virginia Polytechnic Institute and State University)


MATHews, BRUCE E., Professor Emeritus of Engineering (1969), B.E.E., M.S.E., Ph.D. (University of Florida), P.E. (Florida)

MATThson, GUY C., Professor Emeritus of Chemistry (1969), B.S., Ph.D. (University of Florida)

McBRAYER, JAMES D., Professor Emeritus of Engineering (1990), B.S.A.E., M.S., Dipl., D.Sc. (Washington University), P.E. (Florida, Missouri, Ohio)

McGEE, WILLIAM W., Professor Emeritus of Forensic Science (1968), B.S., M.S., Ph.D. (University of Florida)

MCCLLEN, WALDRON M., Professor Emeritus of Engineering (1969), B.S., B.C.E., M.C.E., M.S. (Physics), M.S. (Env. Engr.), Ph.D. (Rensselaer Polytechnic Institute)

MEEKE, MIKE D., Professor Emeritus of Communication (1970), B.S., M.A. (University of Denver)

MICARELLI, CHARLES N., Dean and Professor Emeritus of Foreign Languages and Literatures (1967), B.A., M.A., Ph.D. (Boston University)

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MILLER, ERNEST E., Professor Emeritus of Education (1968), B.A., M.S., Ed.D. (University of North Dakota)

MILLICAN, CHARLES N., President Emeritus and Professor of Finance (1965), B.S., M.A., Ph.D. (University of Florida)

MORGAN, BEN B., JR, Professor Emeritus of Psychology (1988), B.A., M.A., Ph.D. (University of Louisville)

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OKEEFE, M. TIMOTHY, Professor Emeritus of Communication (1968), B.A., M.A., Ph.D. (University of North Carolina)

OMANS, STUART E., Professor Emeritus of English (1968), B.A., M.A., Ph.D. (Northwestern University)

OSTLE, BERNARD, Professor Emeritus of Statistics (1967), B.A., M.A., Ph.D. (Iowa State University)

PAUL, GORDON W., Professor Emeritus of Marketing (1977), B.S., M.B.A., Ph.D. (Michigan State University)

PAULEY, BRUCE F., Professor Emeritus of History (1971), B.A., M.A., Ph.D. (University of Rochester)

PYLE, RANSFORD C., Associate Professor Emeritus of Legal Studies (1976), A.B., M.A., J.D., Ph.D. (University of Florida)

ROHTER, FRANK D., Professor Emeritus of Education (1968), B.S., M.Ed., Ph.D. (University of Southern California)

ROLLINS, JACK B., Professor Emeritus of Psychology (1969), B.S., M.S., Ph.D. (University of Georgia)

RUBIN, RONALD S., Professor Emeritus of Marketing (1972), B.A., M.A., Ph.D. (University of Massachusetts)

SALTER, JOHN H., III, Chairholder, Ernst & Young Professorship and Professor Emeritus of Accounting (1975), B.S., M.S., Ph.D. (Louisiana Polytechnic Institute and State University)
COURTESY APPOINTMENTS

ABELDRAHIM, MAEN A., Courtesy Associate Professor Biomolecular Science Center (2006), B.S. in Pharmacy, Ph.D. (Texas A&M University, College Station)

BALLANTYNE, JOHN, Associate Professor of Chemistry/Forensic Science (1998), Ph.D. (State University of New York at Stony Brook)

BEACH, KEVIN, Assistant Research Professor of Biology (2001), B.S., Ph.D. (University of Hawaii at Manoa)

BELFIELD, KEVIN D., Secondary Joint Professor of Optics & Photonics, and Molecular Biology & Microbiology: CREOL & FPCE (2004), B.S., Ph.D. (Syracuse University)

BELLO, DAVID, Courtesy Associate Professor Biomolecular Science Center (2006), M.D. (Central University of Venezuela)

BETTINGER, TAMARA, Assistant Professor of Biology (2003), (Oklahoma State University)

BIEŁITZKI, JOSEPH, Secondary Joint Professor Biomolecular Science Center (2006), D.V.M. (University of Illinois at Urbana-Champaign)

BILLINGS, JOSEPH B., Clinical Faculty, Athletic Training D.O. (Philadelphia College of Osteopathic Medicine)

BONDAR, MYKHAILO, Assistant Professor of Chemistry B.S., M.S., Ph.D. (Institute of Physics, Kiev, Ukraine)

BRIGHAM, ROBERT C., Professor, Electrical Engr & Computer Science (2004)

BRUNELL, MARY LOU, Instructor, School of Nursing (1980), M.S.N. (University of Pennsylvania)

CADESSANCHE, JEAN-PHILIPPE, Courtesy Visiting Scientist-Biomolecular Science Center (2007), M.S., M.D. (Claude Bernard University, Lyon France), Advanced degree in neurosciences (Claude Bernard University, Lyon France)

CARLSON, JOHN K., Research Assistant Professor of Biology (2003), (University of Mississippi)

CHAI, KARL, Associate Professor of Molecular Biology and Microbiology (1996), Ph.D. (Medical University of South Carolina)

CHAKRABARTI, DEBOPAM, Associate Professor of Molecular Biology and Microbiology (1995), Ph.D. (University of Calcutta-Bose Institute)

CHAKRABARTI, RATNA, Associate Professor of Molecular Biology and Microbiology (1996), Ph.D. (University of Calcutta)

CHANDRA, SUBRATO, Professor, Industrial Engineering and Secondary Joint Research Professor of Civil and Environmental Engineering and Joint Research Professor of Florida Solar Energy Center (1998), M.S., Ph.D. (West Virginia University)

CHEN, PHILLIP, Courtesy Assistant Professor of Molecular Biology and Microbiology (2002), M.D. (University of Alabama at Birmingham)

CHITTICK, ELIZABETH, Assistant Research Professor of Biology (2002), (Tufts University)

CHOW, LOUIS C., Secondary Joint Professor of Optics & Photonics (2005), M.S., Ph.D. (University of California, Berkeley)

COBB, KATHY, Courtesy Adjunct Instructor, Educational Research, Technology, and Leadership (2007), J.D. (Stetson University)

COFFEY, KEVIN, Secondary Joint Associate Professor of Electrical and Computer Engineering (2005), B.A., B.S., M.S., Ph.D (Massachusetts Institute of Technology)

COLE, ALEXANDER, Secondary Joint Associate Professor of Molecular Biology and Microbiology (2003), Ph.D. (University of Medicine and Dentistry of New Jersey)

COLUMBUS, GENE, Department of Theatre (2004)

COOK, CLAYTON B., Professor of Biology (2002), B.A., Ph.D. (Duke University)

CRANS, PETER, Associate Faculty of Communication (2002), (University of Central Florida)

DIANIELI, HENRY, Professor of Molecular Biology and Microbiology (1998), Ph.D. (Madurai-Kamaraj University)

De FREES, DUNE, Professor of Biology (2001), B.S., M.S., Ph.D. (Florida Institute of Technology)

de LA ROSA, CARLOS L., Associate Professor of Biology (1998), B.S., Ph.D. (University of Pittsburgh)

DEATON, JOHN, Assistant Professor of Psychology (1994), B.A., M.A., Ph.D. (Catholic University of America, Washington, D.C.)

DELWAL, PALLAVI B., Clinical Faculty, School of Nursing (2002), (University of Bombay)

DelOACH, JR., BERNARD C., Courtesy Professor School of Electrical Engineering and Computer Science (2004), B.S., M.S., Ph.D. (Ohio State University)

DEMARA, RONALD F., Secondary Joint Associate Professor, School of Computer Science (2004), B.S., M.S., Ph.D. (University of Southern California)

DEMPSY-WALLS, SUSAN, Courtesy Clinical Faculty, School of Nursing
FRANKLIN, RAYMOND, Medical Examiners Diplomat of the National Board of Professor Biomolecular Science (1995), B.S. (University of Central Research Associate University) (2004), B.A., Ph.D. (Rockefeller University)

DHERE, NEELKANTH, Research Professor of Mechanical Engineering and Secondary Joint Professor of Electrical Engineering (1990), B.S., M.S., Ph.D. (University of Poona, Pune, India)

DOUKAS, MICHAEL A., Courtesy Professor of Health Services Administration (2006), B.A., M.P.A., M.D. (Johns Hopkins School of Medicine, Baltimore)

DRAKE, JASON, Courtesy Research Assistant Professor of Biology (2004), B.S., M.S., Ph.D. (University of Maryland)

DUCHARME, ALFRED, Courtesy Assistant Professor of Optics and Photonics. (2005), B.S., E.E., Ph.D (University of Central Florida)

DUPRAS, TOSHA LEA, Secondary Joint Assistant Professor of Biology (2003), B.A., M.S., Ph.D. (McMaster University)

EAGLIN, RONALD, Joint Associate Professor, School of Film & Digital Media and Engr Technology (2003), B.S., M.S., Ph.D. (University of Central Florida)

EASTES, RICHARD W., Secondary Joint Assistant Professor of Electrical Engineering (2006), B.S., M.A., Ph.D. (The Johns Hopkins University)

FALLUCCA-SCHNEIDER, LINDA, Clinical Faculty, School of Nursing (2002), (Rush University)

FERNANDEZ-VALLE, CHRISTINA, Associate Professor of Molecular Biology and Microbiology (1995), Ph.D. (University of Miami)

FIELD, MELVIN, Courtesy Associate Professor Biomolecular Science (2006), M.D. (University of Florida), Diplomat of the National Board of Medical Examiners

FRANKLIN, RAYMOND, Clinical Faculty, MLS, Department of Molecular Biology and Microbiology M.D., Ph.D. (University of Texas)

FRISTROM, JAMES W., Courtesy Research Professor of Biology (2004), B.A., Ph.D. (Rockefeller University)

FULLERTON, STUART, Biological Research Associate (1995), B.S. (University of Central Florida)

FULTON III, ROLLAND, Courtesy Associate Professor of Biology (2004), B.A., Ph.D. (Duke University)

GARLAND, JAY, Associate Research Professor of Biology (2002), B.S., M.S., Ph.D. (University of Virginia)

GOLDBERG, STEVEN, Courtesy Associate Professor of Psychology; Chief, Orlando Field Unit, US Army Research Institute (1994), B.A., Ph.D. (State University of New York at Buffalo)

GOLNIEZ, BRIAN, Secondary Joint Assistant Professor (2006), B.S., M.S., Ph.D. (University of Central Florida)

GOODMAN, IRA, Courtesy Associate Professor Biomolecular Science Center (2006), B.S., M.D. (Medical College of Pennsylvania), Board certified, Neurology (American Board of Psychiatry and Neurology)

GOODWIN, KENNETH, Courtesy Assistant Director, Career Services and Experiential Learning (2006)

GORHAM, JAYNE S., Courtesy Adjunct Ed.D. (Nova Southeastern University) (2007), Clinical Faculty, School of Nursing

GRIFFIS, SUSAN E., (2002), (Creighton University)

GUARDA, LUIS A., Courtesy Professor, Medical Laboratory Sciences (2005), M.D. (University of Chile)

GUPTA, KULDIP C., Courtesy Professor of Electrical Engineering and Computer Science (2005), B.Sc., B.E., M.E., Ph.D. (Birla Institute of Technology and Science, Pilani, India)

HADDADN, MUNITHE, Courtesy Professor of Civil and Environmental Engineering (2006), B.S., M.S., Ph.D. (University of Washington, Seattle, WA)

HEINONEN, OLLE, Associate Professor of Physics (1989), B.S., Ph.D. (Case Western Reserve University)

HERBST, LAWRENCE, Assistant Research Professor of Biology (2002), B.A., M.S., D.V.M., Ph.D. (University of Florida)

HERNANDEZ, FLORENCIO E., Secondary Joint Assistant Professor of Optics & Photonics. (2004), B.S., Ph.D. (Universidad de Venezuela)

HICKEY, MICHAEL H., Associate Professor of Physics (2003), Ph.D. (La Trobe University)

HICKMAN, JAMES, Secondary Joint Professor School of Electrical Engineering and Computer Science (2004), Ph.D. (Massachusetts Institute of Technology)

HIBBEE, RUSSELL, Courtesy Professor of Molecular Biology and Microbiology (2004), D.V.M. (Oklahoma State University)

HOLSENBECK, DANIEL, Associate Faculty, School of Communication (1985), Ph.D. (Florida State University)

IRWIN, RICHARD B., Research Professor of Materials Science B.S., M.S., Ph.D. (University of Pittsburgh)

JARVIS, JOHN, Courtesy Research Associate Professor (2006), B.A., B.S., M.A., Ph.D. (University of Virginia)

JEDILAC MORRIS, LORI, Courtesy Research Associate Professor of Biology (2004), M.A. (College of William and Mary)

JOHNSON, NANCY M., Courtesy Clinical Nurse Specialist (2006), B.S., M.S.N. (University of Evansville, Indiana)

KACHURIN, ANATOLY, Courtesy Professor of Molecular Biology and Microbiology (2004), Ph.D. (Russian Academy of Science, St. Petersburg Nuclear Physics Institute)

KAPLAN, MICHAEL, Professor of Psychology Ph.D. (Columbia University)

KAPPOOR, VIKRAM, Courtesy Professor of Electrical & Computer Engineering (2004), Ph.D (Lehigh University)

KAR, ARAVINDA, Secondary Joint Associate Professor of Electrical and Computer Engineering (2005), B.S., M.S., Ph.D. (University of Illinois at Urbana-Champaign)

KENNEDY, ROBERT S., Professor of Psychology B.A., M.A., Ph.D. (University of Rochester)

KAHLE, ANNETTE, Secondary Joint Assistant Professor of Molecular Biology and Microbiology (2002), Ph.D. (University of Florida)

KENICAID, J. PETER, Professor of Psychology and Senior Research Scientist, Modeling and Simulation B.A., M.A., Ph.D. (Ohio State University)

KRUPP, LINDA, Courtesy Adjunct Instructor, Educational Studies (2007), Ed.D. (University of Florida)

LAIL, BRIAN A., Courtesy Assistant Professor of Electrical Engineering and Computer Science (2005), B.S., M.S., M.S. E.E., Ph.D.E.E. (New Mexico State University, Las Cruces, New Mexico)

LEE, HAEJONG, Courtesy Research Associate in Public Affairs (2005), Ph.D (Yonsei University, Seoul, Korea)

LEHMANN, JEFFREY, Clinical Professor in Communication Sciences and Disorders (2003), (University of Wisconsin)

LELL, DONAL, Faculty Associate, Psychology B.A., M.S., Ph.D. (University of South Florida)

LIE, JOYCE R., Associate Professor of Political Science (1985), B.A., M.A., Ph.D. (Johns Hopkins University)

LOUGHNER, BARRY A., Clinical Faculty, Health Services Administration D.D.S., M.S., Ph.D. (University of Florida)

LU, YOU MING, Secondary Joint Associate Professor of Molecular Biology and Microbiology (2003), M.D., Ph.D. (University of Toronto, Toronto, Canada)

MARTIN, LAWRENCE, Professor, Public Administration and Public Affairs, Joint Appointment (2004), Ph.D. (Arizona State University)

MAYER, DAVID, Secondary Joint Appointment, Assistant Professor of Psychology (2005)

MCYALE, MICHAE, Courtesy Clinical Faculty, School of Nursing (2002), (Philadelphia College of Osteopathic Medicine)

MCPHERSON, BRENDA, Faculty Associate, Educational Studies (2003)

MEDIN, A. LOUIS, Professor of Engineering Ph.D. (Ohio State University)

MELLE, JILL, Assistant Research Professor of Biology (1999), B.S., M.S., Ph.D. (University of California, Davis)

MENGES, ERIC, Assistant Professor of Biology (1994), B.S., M.S., Ph.D. (University of Wisconsin)

MERCURI, KEVIN, Adjunct Clinical Professor, Health Science (2004)

MOLNAR, PETER, Secondary Joint Assistant Professor of Biomolecular Science Center (2005), Ph.D. (Eotvos Lorand University, Hungary)

MORRIS, LORI JEDILAC, Courtesy Research Associate Professor of Biology (2004), B.S., M.S. (College of William and Mary)

MULLER, MARK, Secondary Joint Professor Biomolecular Science Center (2004), Ph.D. (University of British Columbia)

NADEAN, JEANNETTE A., Secondary Joint Assistant Professor of Biomolecular Science Center (2003), Ph.D. (University of California, Davis)

NAESE, SALEH, Associate Professor of Molecular Biology and Microbiology (1985), B.A., M.A., Ph.D. (Johns Hopkins University)
BOSTON, BELINDA, Director, Fraternity and Sorority Life (2004), B.S., M.S. (Western Illinois University)
BRADY, PAMELA A., Director, Student Services at the Western Region (1990), A.A., B.A. (University of Central Florida)
BROWN, VICTORIA, University Ombuds Officer (1990), B.A. (University of Central Florida)
CEPERO, TANYA, Coordinator of REACH Peer Education (2000), B.S., M.S., CHES, CAAPP-2 (University of Central Florida)
CHANDIA, NATALY, Director, International Services Center (2003), B.A., M.P.A. (University of Central Florida)
CHAPIN, LINDA, Director, Metropolitan Campus for Regional Studies (2001), B.A. (Michigan State University)
CHAVIS, GORDON D., JR., Assistant Vice President for Undergraduate Admissions, Student Financial Assistance, and Student Outreach (1999), B.A., J.D. (Georgetown University)
CHEREPOW, SANDRA M., Senior Administrative Assistant to the President (1972), A.A. (Baker Junior College)
COLE, W. SCOTT, Vice President & General Counsel (2002), B.S., J.D. (University of Florida)
CRAWFORD, BRAD, Director, Campus Faiths and Ministries (1999), MBA, M.Div. (The Southern Baptist Theological Seminary)
DIEbler, MARCIA A., Director of Creative School for Children (1982), B.S. (Ashland University)
DONEGAN, HELEN, Vice President for Community Relations (1995), B.A. (San Jose State University)
DRAKE, JAMES A., Associate Vice President and Director of Southern Region Area Campuses (1994), A.B., Ph.D., (Ohio State University)
DRESSLER, SHERI, Director, Center for Cooperative Education and Applied Learning (1982), B.A., M.S.W., Ph.D. (University of Florida)
DULLAGHAN, PATRICIA, Associate General Counsel, Student Legal Services (1996), B.S., J.D. (Nova University)
DUNIAK, DENNIS J., University Registrar (1999), B.S., M.S., Ed.D. (Montana State University)
EHASZ, MARIBETH, Vice President for Student Development and Enrollment Services (1994), B.S., M.A., Ph.D. (University of Toledo)
EHLING, WILLIAM, Director, Recreation and Wellness Center (1990), B.S., M.A. (Appalachian State University)
EKERN, SHARON L., Associate Vice President for SDES Administrative Services (1990), B.A., M.P.A., Ed.D. (University of Central Florida)
EXUM, TERRY, Director of Student Services, Southern Region (2006), B.S., M.A. (Louisiana Tech University)
FORTIER, VANESSA, Director, University Budget Office (1998), B.S.B.A., M.B.A. (University of Central Florida)
GAUSE, J. RICHARD, JR., Associate University Librarian (1998), B.S., M.B.A., M.L.S. (Florida State University)
GONZALEZ, LYNN, Assistant Vice President, Academic Affairs Administration (1991), B.A., M.B.A. (University of Central Florida)
GRAY, BETSY L., Associate Director, Office of Research & Commercialization, and Chief Operating Officer, UCF Research Foundation (1972), B.S.B.A. (University of Central Florida)
GUMBLED, MARK, Director, Academic Services for Student Athletes (1998), B.A., M.A. (Binghamton University)
HALL, RHONDA C., Director of Student Outreach Programs (2000), B.A., M.A. (University of Central Florida)
HALL, THOMAS, Director of Alcohol & Other Drug Programming (1991), B.S., M.S. (Florida State University)
HALPIN, SUZANNE M., Director for Student Union (1998), B.S. (Bentley College)
HARMS, AL, Assistant Vice President for Research and Special Assistant to the President (2005), B.S., M.S. (Texas A&M University)
HARRISON, DAVID, Vice Provost, UCF Regional Campuses (2004), B.S., M.B.A., Ph.D. (Ohio State University)
HARTMAN, JOEL L., Vice Provost, Information Technologies and Resources (1995), B.S., M.S., Ed.D. (University of Central Florida)
HARTZLER, CHRISTI A., Director of Housing and Residence Life (1982), B.A., M.Ed. (University of Miami)
HELM, TERRENCE K., Assistant Vice President, University Marketing (2005), B.S., M.B.A. (Rollins College)
HICKEY, TERRY L., Provost and Executive Vice President, and Professor of Psychology (2003), B.A., M.A., Ph.D. (University of Miami)
HITT, JOHN C., President of the University, and Professor of Psychology (1992), B.S., M.S., Ph.D. (Tulane University)
HOLMES, ROBERT J., Jr., Vice President for Alumni Relations and Development and Chief Executive Officer, UCF Foundation. (1998), B.A., M.A. (University of Maine)
HOLZENBECK, DANIEL C., Vice President for University Relations, Senior Counsel to the President, and Director of Governmental Relations (1985), B.S., M.E.D., Ph.D. (Florida State University)
HUGEDDON, THOMAS, JR, Vice President for Marketing, Communications and Admissions (1993), B.S., M.S., Ed.D. (Oklahoma State University)
JACKSON, WAYNE, Director, Multicultural Academic and Support Services (1981), B.A., M.A. (Dallas Theological Seminary)
JONES, TRACY R., Executive Director, Graduate Admissions Student Services, International Services Center, Davison of Graduate Studies (1995), B.A., M.A. (University of Central Florida)
JUNTEJEN, DANA, Coordinator for Office of Student Conduct (2003), B.A., M.Ed (James Madison University)
JUNTEJEN, SHANE A., Assistant Director for Office of Student Involvement/Advisor for Student Government (2003), B.S., M.Ed. (James Madison University)
KATZ, SUSAN RACHEL, Executive Director, Southeast Region, National Consortium for Academics and Sports, Academic Retention and Development (1997), B.S. M.S. (Northeastern University)
KIRK, PAULA S., Director of Operational Excellence and Assessment Support (2004), B.S., M.Ed., M.S., Ph.D. (University of North Carolina)
KU, MICHELLE, Assistant General Counsel, Student Legal Services (2004), B.A., J.D. (University of Pennsylvania)
LAKASO, BEVERLY B., Associate Director, Office of Research (1997), B.S.B.A., M.P.A. (University of Central Florida)
LAUREANO, GLORIA, Director, First Year Advising & Exploration (1991), B.A., M.A., Ed.D. (University of Central Florida)
MacKOWN, PATRICIA A., Assistant Vice President for Campus Life, Director, Office of Student Rights and Responsibilities and Director, Student Legal Services (1979), B.A., M.A. (University of Central Florida)
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McCRAY, CHRISTOPHER, JR. Director of University and Affiliated Housing (1980), B.S., M.S. (Florida State University)
MCKINNEY, MARY, Executive Director for Student Financial Assistance (1971), B.S., M.P.A. (University of Central Florida)
MEALOR, DAVID, Assistant Vice President and Director, Central Region, Regional Campuses (1989), B.S., Ph.D. (University of Georgia)
MERRICK, WILLIAM F., Vice President for Administration and Finance (1990), B.A., M.B.A. (Georgia State University)
MENSAH, THOMAS, Associate Vice President for Alumni Relations and Executive Director of the UCF Alumni Association (1992), B.S., M.B.A. (Embry Riddle Aeronautical University)
MILLICAN, CHARLES N., President Emeritus, Professor of Finance, and Special Assistant to the UCF Foundation Chief Executive Officer (1965), B.S., M.A., Ph.D. (University of Florida)
MINANA, KIM A., Assistant Vice President for Major Gifts and Director of Corporate and Foundation Relations (1995), B.A. (University of Central Florida)
MONROE, JUDITH E., Assistant Vice President for Student Life and Wellness, and Director of Student Services (1976), B.S., M.S., Ph.D. (University of North Carolina)
<table>
<thead>
<tr>
<th>Name</th>
<th>Title/Position</th>
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<tbody>
<tr>
<td>Puskas, Raymond</td>
<td>Director, Purchasing</td>
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<td>(1988), B.A.</td>
<td>(University of Connecticut)</td>
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<td>Range, A. J.</td>
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<td>(1994), B.S., M.Ed.</td>
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<td>Ratti, Barbara B.</td>
<td>Director General</td>
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<td>Reddick, Alzo J.</td>
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<td>(2000), B.A., J.D.</td>
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<td>Ritchie, Joe</td>
<td>Director for Orientation Services</td>
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<td>Rivers, Cecelia H.</td>
<td>Assistant Vice President, Central Florida Area Campuses</td>
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<td>Roberts, Mark A.</td>
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<td>(1986), B.A., M.A.</td>
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<td>Root, Terrance</td>
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<td>Schons, Edward L.</td>
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<td>(2000), B.S.</td>
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<td>Schuckman, Gregory A.</td>
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<td>(2000), B.S., M.G.A.</td>
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<td>Sciarino, Joseph</td>
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<td>Shiver, Lauren A.</td>
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<td>Snow, Robert</td>
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<td>Richard</td>
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<td>Steel, Catherine</td>
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<td>Trees, Diane</td>
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<td>Tribble, Keith</td>
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<td>Truman, Barbara</td>
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<td>Watan, Jimmy L.</td>
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<td>(1984), B.S., M.A., Ed.D.</td>
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<td>Welch, Kerry</td>
<td>Director, Office of Student Involvement</td>
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<td>Wilkening, James</td>
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<td>Wirag, J. Robert</td>
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<td>Wright, Earl L.</td>
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<td>Yanckellos, Robert</td>
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<td>(2004), B.S., M.Ed.</td>
<td>(Pennsylvania State University)</td>
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<td>Young, Denise L.</td>
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UCF Administrative Officers and Staff
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<tr>
<th>Month</th>
<th>Name</th>
<th>Degree</th>
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<tbody>
<tr>
<td></td>
<td>Lee R. Scherer, Doctor of Engineering Science</td>
<td>April 1996 Nicolaas Bloembergen, Doctor of Science</td>
</tr>
<tr>
<td>June 1980</td>
<td>Thelma Vivian Jackson Dudley, Doctor of Humanities</td>
<td>May 1997 Maxwell C. King, Doctor of Public Service</td>
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<td></td>
<td>Howard Phillips, Doctor of Public Service</td>
<td>Joe R. Lee, Doctor of Commercial Science</td>
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<td></td>
<td>Ferdinand Duda, Doctor of Agricultural Service</td>
<td>President Oscar Arias, Doctor of Humane Letters</td>
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<td></td>
<td>John Duda, Doctor of Agricultural Service</td>
<td>December 1999 Reubin O'D. Askew, Doctor of Public Service</td>
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<tr>
<td>July 1982</td>
<td>Mary Jo Davis, Doctor of Public Service</td>
<td>May 2000 Lotfi Zadeh, Doctor of Science</td>
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<tr>
<td></td>
<td>William E. Davis, Doctor of Public Service</td>
<td>May 2001 Richard M. Karp, Doctor of Science</td>
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<td></td>
<td>Charles Wadsworth, Doctor of Public Service</td>
<td>James Bacchus, Doctor of Public Services</td>
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<tr>
<td>May 1985</td>
<td>George J. Becker, Jr., Doctor of Public Service</td>
<td>October 2002 Nancy Burnett, Doctor of Commercial Science</td>
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<tr>
<td></td>
<td>Jerry Collins, Doctor of Public Service</td>
<td>October 2002 Albert Burnett, Doctor of Commercial Science</td>
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<td></td>
<td>D. Robert Graham, Doctor of Public Service</td>
<td>December 2002 Robert E. Kahn, Doctor of Science</td>
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<tr>
<td></td>
<td>Walter Q. Lowrie, Doctor of Engineering Science</td>
<td>December 2004 G. Vince Amico, Doctor of Science</td>
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<tr>
<td>March 1986</td>
<td>Isaac Bashevis Singer, Doctor of Letters</td>
<td>May 2005 Harriet Elam-Thomas, Doctor of Public Service</td>
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<tr>
<td></td>
<td>John D. Holloway, Doctor of Public Service</td>
<td>May 2007 Charles Hard Townes, Doctor of Science</td>
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<td></td>
<td>Wolfgang-Detlef Petri, Doctor of Commercial Science</td>
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<tr>
<td>May 1989</td>
<td>Frank M. Hubbard, Doctor of Public Service</td>
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<tr>
<td></td>
<td>David Albertson, Doctor of Humane Letters</td>
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<tr>
<td></td>
<td>William S. Jenkins, Doctor of Humane Letters</td>
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<td></td>
<td>James C. Robinson, Doctor of Public Service</td>
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<tr>
<td></td>
<td>Charles N. Millican, Doctor of Laws</td>
<td></td>
</tr>
</tbody>
</table>
A.A.: associate in arts degree. A degree designed for transfer to an upper division college or university. A Florida A.A. degree satisfies General Education (GEP) at all Florida SUS Schools.

Accreditation: certification that the college/school or program has met established standards and is nationally recognized by appropriate accrediting agencies.

ACT: American College Testing program is used for undergraduate admission purposes.

Add/Drop: online procedure used to alter class schedules after registration. During this time, students can adjust their schedules through myUCF (https://my.ucf.edu) without penalty by adding or dropping courses. Students should check the appropriate term’s Web Enrollment Guide for details.

AEP: Academic Exploration Program to assist undeclared students.

AS: associate in science degree. A broad-based degree designed to prepare students to enter a wide variety of careers.

ASSA: Academic Services for Student Athletes.

Audit (course): to attend classes without receiving academic credit.

Audit (Degree): Computerized summary of progress toward completion of degree requirements to be used with academic advising and registration. Available from myUCF at https://my.ucf.edu. (See also “SASS Degree Audit”)

BA: Business Administration. This abbreviation appears in the listing of courses and refers to the College of Business Administration (CBA). Also see Bachelors Degree.

Baccalaureate or Bachelors Degree: completion of all University and major graduation requirements as certified by the University (B.A. is the Bachelor of Arts degree and B.S. is the Bachelor of Science degree).

BCBS: Burnett College of Biomedical Sciences.

Breaking Catalog: loss of eligibility to follow graduation requirements in a specific catalog.

CAH: College of Arts and Humanities.

Catalog: resource for UCF academic policies and procedures, college/school and degree requirements, course descriptions and faculty listings. It is published annually and its contents are subject to change. Available online at http://www.catalog.sdes.ucf.edu

Catalog Year: the edition of the University catalog that governs course prerequisites, co-requirements and graduation requirements for a particular academic year.

CBA: College of Business Administration

CECS: College of Engineering and Computer Science

Certificate: special program of study supplemental to a major.

CT: consent of instructor.

Class Schedule Search: a component of the online myUCF system (at https://my.ucf.edu) that lists courses and class sections offered each academic term.

CLAST: College Level Academic Skills Test: the CLAST is a required statewide test which measures selected communication and mathematics skills.

CLAST Alternative: refers to another way of satisfying one or more subtests of the CLAST requirement other than taking the exam - through combination test scores (SAT or ACT) and specific course grades.

COE: College of Education.

COHPA: College of Health and Public Affairs.

College: collection of related academic departments. There are eleven colleges at UCF: Arts and Humanities (CAH), Business Administration (CBA), Burnett College of Biomedical Sciences (BCBS), Education (COE), Engineering and Computer Science (CECS), Health and Public Affairs (COHPA), Medicine, Nursing (CON), Optics and Photonics (COP), The Burnett Honors College (TBHC), Rosen College of Hospitality Management (RHMI), and Sciences (COS).

Common Course Numbering: the statewide course numbering system (SCNS) uses a course designation that consists of a 2-letter prefix and a 4-digit number and when necessary a one-letter laboratory (L) or lecture/laboratory (C) suffix.

Common Program Prerequisite: the State of Florida has identified Common Program Prerequisites for all University programs. These prerequisites must be completed by all students entering that field of study, must be accepted by all state universities and must be applied towards the degree.

CON: College of Nursing.

Contact hours: number of hours students meet in class.

Continuous Enrollment: enrollment not interrupted by non-attendance for either consecutive Fall and Spring terms, or consecutive Spring, Summer term, and Fall.

COS: College of Sciences.

CR: co-require is an additional course in which you must enroll during the same term as the primary course you desire to take.

Credit Hour or Semester Hour: every course taught is designated a total number of credit hours. The number of credit hours for a class reflects approximately the total hours a student spends per week in class. Most lecture courses are three credit hours and meet three hours each week. Students should expect to spend at least two hours of study time outside of class for every hour spent in class. One semester hour equals 1.5 quarter hour.

Diploma: official certificate displaying earned degree, major and baccalaureate honors.

Directory Information: information items that the Family Educational Rights and Privacy Act of 1974, As Amended (FERPA) authorizes the University to release without the student’s prior consent, unless the student has filed a “Directory Disclosure/Release Authorization Form” with the Registrar’s Office.

Directory information at UCF: includes the student’s name, current mailing address, telephone number, date of birth, enrollment status, dates of attendance, major field of study, degree and awards received, participation in officially recognized activities and sports, and athletes’ height and weight.

Disqualified: 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 terms following disqualification. Readmission after two terms is not automatic.

Distance and Distributed Learning: learning online through the UCF Virtual Campus, which provides opportunities for students to enroll in credit courses and select degree programs through a variety of interactive distributed technologies.

Double Major: awarded when the student concurrently satisfies requirements for two majors.

Drop: a student may drop a course during the official Add/Drop period and a dropped course will not appear on the student’s permanent record. Students are not fee liable for dropped courses.

Elective: any course not required as part of the General Education Program or as part of your major/minor.

Email: primary official means of communication with students regarding University business and information.

Enrollment: the act of registering in classes. This may be done through myUCF at https://my.ucf.edu, kiosks and in limited circumstances at the colleges’ advising offices.

Enrollment Certification: an official University document that provides a student’s enrollment history including status, dates enrolled, and degrees awarded, available online at https://my.ucf.edu in Student Self Service.

Equipment Fee: A charge associated with some majors to cover the use and replacement of equipment.

Excluded: a student readmitted following disqualification who fails to achieve a minimum 2.0 GPA is excluded from the University. Students are not eligible for readmission after exclusion. See “Readmission” for details.

Fee Invoice: a printout of courses for which the student has registered that lists each specific course, its meeting time(s) and day(s). The amount of tuition and fees due for all courses registered and the payment deadline date also is indicated. Available online at https://my.ucf.edu in Student Self Service.

Freshman and Sophomore Courses: lower level courses with common course numbers ranging from 1000-2999 (e.g., ENC 1101, English Composition I). Generally, freshmen should enroll in 1000 and 2000 level courses.

FTIC: abbreviation for “First Time In College,” referring to those students who have completed fewer than 12 semester hours and currently are in their first term as a UCF college student after high school.

Full-Time Course Load: for undergraduates, a minimum of 12 credits in the Fall and Spring and Summer terms.

FYAE: First Year Advising and Exploration.

GEP: General Education Program: Specific courses required for all UCF degree programs providing skills and knowledge in general subject areas essential to continued learning and success, not only in college but throughout the student’s life.

Gordon Rule: requires students to complete four composition courses (12 semester hours) and two courses (six semester hours) of mathematics at the level of college algebra or higher. Each course must be completed with a grade of “C-” (1.75) or better.

GOT: the Grad On Track program is designed to assure a student’s graduation in four years.

GPA: “Grade Point Average”: 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.

UCF GLOSSARY

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Grade Forgiveness: refers to when a course taken at UCF is repeated, and for grade point average purposes, the grade earned in the first attempt is replaced by the grade earned in the second attempt at UCF (may be used only twice in the student's academic career).

Grade Point Deficiency: For readmission purposes only, this term is defined as the number of UCF credit hours earned with a “B” (3.0 GPA) grade that a student requires to raise his or her UCF cumulative grade point average to 2.0. A student's grade point deficiency is calculated when the student applies for readmission.

Health Form: documentation of immunity for measles and rubella, as well as consent for treatment at the University Health Center (must be completed and returned to Student Health Services prior to the first registration).

Hold: also called a “negative service indicator,” this is a block on activity for transcripts, grades, diploma, or registration because of financial or other obligations to UCF.

Incomplete: grade assigned by the instructor when a student is unable to complete a course due to extenuating circumstances. Must be completed in 12 months or by graduation, whichever comes first.

Junior and Senior Courses: upper level courses with common course numbers ranging from 3000-4999 (e.g., ENG 3311, Advanced Expository Writing).

Kiosk: stand-alone PCs located in UCF public areas providing access to student records and general information.

Limited Access: certain academic programs designated as “limited access” only guarantee admission to a limited number of applicants.

Lower Level Courses: courses with a number of 1000-2999 (not less than 1000).

Major: group of related courses that constitute a focused program of study in a specific area of knowledge.

MASS: Multicultural Academic and Support Services

Material and Supply Fee: A charge associated with some courses to cover items consumed within the class.

Minor: a complement to a bachelor’s degree program/major requiring at least 18 credit hours in a field.

myUCF: the UCF/student information portal online at https://my.ucf.edu: myUCF is a powerful, security-encrypted, PID (Personal IDentification Number) and Password-access information system that will facilitate a variety of transactions in which students will engage at UCF. In myUCF, students may obtain a list of current holds, change the Password, e-mail address, telephone number, and permanent/mailing addresses; search for courses each term; register, drop and add courses each term; withdraw from courses following the close of Late Registration and Add/Drop, print the “SASS Degree Audit,” obtain the registration appointment day and time for each term, print a “Fee Invoice,” pay fees by credit card, gain access to financial aid and accounts receivable information; obtain the term final grades, and a list of current courses.

NID: Network Identification Number that students use to log in to WebCT, Pegasus e-mail and the UCF computer labs.

Overall GPA: cumulative GPA of UCF and transfer course work.

Password: a series of four to eight characters and numbers chosen by the student that is associated with the PID (Personal Identification Number). Each time you use the PID to enter myUCF, you also will enter your Password.

Pending Status: category assigned to students who desire to enter limited or restricted access programs. Typically, students are required to complete the GEP and all major pre-requisites prior to admission into the desired limited access program. (Department will change student's status upon acceptance into the program.)

PID: (Personal Identification Number): personal eight-digit code required when entering myUCF, or the UCF Information Kiosks.

PR: prerequisite refers to a specific course that must be taken and passed prior to enrolling in the primary course the student desires to take.

Probation: action taken when a student's UCF overall GPA drops below 2.0.

Readmission: reapply to the Registrar's Office after an absence of two or more terms.

Registration: the act of enrolling in classes. This may be done through myUCF at https://my.ucf.edu, kiosk and in limited circumstances at the colleges' advising offices.

Repeat Surcharge: additional fee applied when a student enrolls in the same course three or more times.

Restricted Access: certain academic programs designated as “limited access” only guarantee admission to a limited number of applicants. Typically, students are required to complete the GEP and all major pre-requisites prior to admission into the desired limited access program. (Department will change student's status upon acceptance into the program.)

Restricted Electives: a specified group of courses within a major from which students must make selections.

Retention: a term used to describe students' continued enrollment at the University until successful completion of their educational goals.

RHM: Rosen College of Hospitality Management

SARC: Student Academic Resource Center provides academic support programs, including supplemental instruction, tutoring, academic advising, and various other programs and services to students.

SASS Degree Audit: A Student Academic Support System is a computerized degree audit that lists courses completed toward major and degree requirements.

SAT: Scholastic Assessment Test is an assessment used for University admission purposes.

Satisfactory Academic Progress: a general eligibility requirement for financial assistance. (see ‘Office of Student Financial Assistance’ within the “Financial Information” section of this Undergraduate Catalog.)

Second Bachelors Degree: awarded when the student meets the requirements for both degrees and earns a minimum of 150 credit hours.

Section: refers to one of several offerings of the same course scheduled at different days of the week and hours of the day. For example: there may be 40 different sections of ENC 1101 offered within a term.

Sequence: a series of courses within the same subject area. Generally, the student takes these courses in numerical order (e.g., PHY 2053 then 2054). Students should consult the advisor before registering out of sequence.

SSYC: Sophomore & Second Year Center

STEP: State Tuition Exemption Program

Student Success Center: advising offices and other academic support services for first-year students located on the first two floors of Howard Phillips Hall.

SUS: State University System. All eleven Florida public universities are part of the SUS.

Term: the academic year at UCF is divided into segments called “terms” (also called “semesters”). Each lasts approximately 16 weeks. Some universities break the year into fourths and call them “quarters.” UCF is on the semester system; however, we usually speak of “Fall Term,” “Spring Term,” or “Summer Sessions.”

Term GPA: grade point average (GPA) on work attempted during any given term.

TBHC: The Burnett Honors College

Third Attempt Charge: See ‘Repeat Surcharge.’

Track: one of two or more significant variations in a degree program or major. Approximately 50% of the courses in one track differ from the courses required in other tracks.

Transcript: official academic record mailed from the Registrar’s Office.

UCF Area Campus System: UCF Cocoa, UCF Daytona Beach, UCF Downtown, UCF Heathrow, UCF Leesburg, UCF Ocala, UCF Osceola, UCF Palm Bay, UCF Sanford/Lake Mary, UCF South Lake, UCF South Orlando, and UCF West Orlando.

UCF GPA: grade point average (GPA) on all work attempted while in attendance at UCF.

Upper Level Courses: courses with a course number of 3000-4999.

Web Enrollment Guide: Multiple-Term editions available online at http://registrar.ucf.edu. Provides the “Academic Calendar,” guides to registering online, Class Schedule Search and the Fee Invoice, and contains the policies that govern course registration. Each term’s class listings are available only on-line through myUCF Class Schedule Search at https://my.ucf.edu.

Withdrawal, Withdraw from a Course: to formally request an official withdrawal from one or more courses during the first half of the term or session through myUCF (https://my.ucf.edu) or at the Registrar’s Office.
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